

Personal Systems Reference Lenovo® ThinkPad® Notebooks

May 2013 - Version 436







USB 3.0 Secure 1TB Hard Drive 0A65621



ThinkVision® LT1421 with ThinkPad X1



90W Ultraslim AC/DC Combo Adapter 41R4493



Ultraslim Plus Wireless Keyboard and Mouse 0A34032



Lenovo® Essential Notebook Stand 45J9292 with notebook, keyboard and mouse



ThinkPad Mini Dock Plus Series 3 with USB 3.0 - 90W 433815U

ThinkPad_®





Lenovo ThinkPad Tablet 2





Thinked Interest

Lenovo ThinkPad Tablet 2 with
ThinkPad Tablet 2 Dock

0B47109

Lenovo ThinkPad Tablet 2 with ThinkPad In-Ear Headphones with microphone 57Y4488

ThinkPad_®



Lenovo® ThinkPad Tablet 2 with ThinkPad Tablet 2 Bluetooth Keyboard with Stand 0B47270



Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 Fitted Sleeve 0A33902



Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 VGA Adapter 0B47084



Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 Fitted Sleeve 0A33902



Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 Bluetooth Keyboard with Stand 0B47270



ThinkPad Tablet 2 Dock 0B47109

ThinkPad® Tablet 2 (3679) - TopSeller

Type-model	Processor	Memory	Widescreer display	ı Storage	Tablet Pen	Camera Front/ Rear (MP)	Bluetooth Keyboard w/ Stand	WLAN 802.11	PCIe Mini Card WWAN	Carrier	NFC	Blue- tooth	Preload	Ann Date (mm/yy)
3679-23U	Atom Z2760	2GB	10.1" HD	64G	No	2.0/8.0	None	11a/b/g/n ²⁸	None	None	None	ВТ	Win8 32	10/12
3679-26U	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8 32	10/12
3679-27U	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8 Pro32	10/12
3679-28U	Atom Z2760	2GB	10.1" HD	64G	No	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8 Pro32	10/12
3679-4JU	Atom Z2760	2GB	10.1" HD	64G	No	2.0/8.0	None	11a/b/g/n	Gobi 4000	AT&T	None	BT	Win8 Pro32	12/12
3679-22U	Atom Z2760	2GB	10.1" HD	32G	No	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8 32	01/13
3679-5HU	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	Gobi 4000	AT&T	NFC	BT	Win8 Pro32	03/13

$\bullet \ Small \ and \ medium \ business \ (SMB) \ model(s), part \ of \ the \ US \ Top Seller^{\text{\tiny{TM}}} \ Program$

Positioning	Touchscreen tablet for on-the-go business	Preloaded operating system ²⁰		
Processor	Intel® Atom™ Processor Z2760 (2 cores, 1.80GHz, 1MB cache), LPDDR2 memory controller (800MHz), HT technology	- Some: Windows® 8 32-bit - Some: Windows 8 Pro 32-bit		
Memory	2GB / 800MHz LPDDR2, mobile DDR / soldered to systemboard, no sockets	Preloaded applications ¹⁴ (only some listed)		
Storage extension	32GB or 64GB / eMMC (embedded Multi Media Card) flash memory on board One microSD Card slot	Lenovo® Settings Lenovo Support		
Graphics	PowerVR™ SGX545 graphics in Intel Atom SoC,	Lenovo Companion		
Display Tablet pen	supports 1080p video out via mini-HDMI™ connector, HDCP-compliant 10.1" (256.5mm) HD (1366x768) TFT color, anti-reflective display with infinity AGC Dragontrail™ Glass, LED backlight, 400 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports five-finger gesture Some: ThinkPad Tablet 2 Digitizer Pen (0A33899), supports hover, tip, and pressure modes / a button for selection / no batteries required *The models without Tablet Pen can not support pen input function via optional ThinkPad Tablet 2 Digitizer Pen (0A33899)	Lenovo QuickSnip AT&T® All Access Lenovo Cloud Storage by SugarSync Password Manager Norton™ Internet Security 2012 (30 days of virus definitions) ThinkVantage System Update AccuWeather		
Camera Video capture	Front camera: 2.0-megapixel, fixed focus Rear camera: 8.0-megapixel, auto focus, flash LED 720p video capture	Evernote® Nitro PDF Skype™		
Audio support	Realtek® ALC5642 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, combo audio/microphone jack	Amazon Kindle		
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, WAV, PCM, WMA Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid			
Control buttons Bluetooth Keyboard with Stand	Windows button, Power button, volume control button, rotation lock switch, reset switch Some: ThinkPad Tablet 2 Bluetooth Keyboard with Stand (0B47270), 6-row, TrackPoint® pointing device w/ three mouse buttons, landscape stand included, connects system via bluetooth, sealed battery with 30-day battery life, chargeable via micro-USB (one USB to micro-USB cable included)			
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, Capella CM3218 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC 3-axis gyroscope, STMicroelectronics L3G4200D			
Platform Ports	Intel Atom Z2760 SoC (System on Chip) platform One USB 2.0, one micro-USB 2.0 (only for power supply / charging), one mini-HDMI, headphone/microphone combo jack, one ThinkPad Tablet 2 Dock connector			
WLAN⁴ WWAN Carrier GNSS Bluetooth™ NFC	11a/b/g/n² ⁸ wireless, ThinkPad 11a/b/g/n, 1x1, WiFi + Bluetooth combo chip <i>Some:</i> Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), WCDMA/HSPA/HSPA+ <i>Some:</i> AT&T® LTE (4G), contract required with service provider Global Navigation Satellite System Bluetooth 4.0 wireless, integrated in WiFi + Bluetooth combo chip <i>Some:</i> Near Field Communication, easy for two devices to communicate with each other			
Dimensions ³ Weight ²	10.34" x 6.48" x 0.39"; 262.6mm x 164.6mm x 9.8mm WiFi only: from 1.26 lb (0.57kg); WiFi + Digitizer Pen: from 1.30 lb (0.59kg); WiFi + Digitizer Pen + WWAN:from 1.35 lb (0.61kg) Black	10-watt AC adapter (via micro-USB) GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support		
Case material	Magnesium frame, PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) cover	during the warranty period ¹²		
Battery - type Battery - life ¹⁰	Lithium Polymer, 30Whr up to 25 days (standby); up to 150 hr (MP3 playback); up to 10 hr (web browsing with flash); up to 10 hr (local video playback)	For compatible accessories, please go to O-Tablet-2 sheet;		
Limited Warranty ¹²	21-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-Tablet sheet		

ThinkPad® Tablet 2 (3679) - TopSeller - II

Type-model	Processor	Memory	Widescree display	n Storage	Tablet Pen	Camera Front/ Rear (MP)	Bluetooth Keyboard w/ Stand	WLAN 802.11	PCle Mini Card WWAN	Carrier	NFC	Blue- tooth	Preload	Ann Date (mm/yy)
3679-5YU	Atom Z2760	2GB	10.1" HD	64G	No	2.0/8.0	None	11a/b/g/n ²⁸	None	None	None	BT	Win8 32	04/13
3679-5XU	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	Gobi 4000	AT&T	NFC	BT	Win8 32	04/13
3679-5VU	Atom Z2760	2GB	10.1" HD	64G	No	2.0/8.0	None	11a/b/g/n	Gobi 4000	AT&T	NFC	BT	Win8 32	04/13
3679-5QU	Atom Z2760	2GB	10.1" HD	64G	No	2.0/8.0	None	11a/b/g/n	None	None	NFC	BT	Win8 32	04/13
3679-5PU	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	None	None	NFC	BT	Win8 32	04/13
3679-5MU	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8 32	04/13

\bullet Small and medium business (SMB) model(s), part of the US TopSeller $^{\text{\tiny TM}}$ Program

Positioning	Touchscreen tablet for on-the-go business	Preloaded operating system ²⁰			
Processor	Intel® Atom™ Processor Z2760 (2 cores, 1.80GHz, 1MB cache), LPDDR2 memory controller (800MHz), HT technology	- Windows® 8 32-bit Preloaded applications¹⁴ (only some			
Memory	2GB / 800MHz LPDDR2, mobile DDR / soldered to systemboard, no sockets	listed) • Microsoft Office Home and Student			
Storage extension	32GB or 64GB / eMMC (embedded Multi Media Card) flash memory on board n One microSD Card slot	2013 (included in Windows 8) • Lenovo® Settings			
Graphics Display	PowerVR™ SGX545 graphics in Intel Atom SoC, supports 1080p video out via mini-HDMI™ connector, HDCP-compliant 10.1" (256.5mm) HD (1366x768) TFT color,	Lenovo Support Lenovo Companion Lenovo QuickSnip			
Tablet pen	anti-reflective display with infinity AGC Dragontrail™ Glass, LED backlight, 400 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports five-finger gesture Some: ThinkPad Tablet 2 Digitizer Pen (0A33899), supports hover, tip, and pressure modes / a button for selection / no batteries required *The models without Tablet Pen can not support pen input function via optional ThinkPad Tablet 2 Digitizer Pen (0A33899)	AT&T® All Access Lenovo Cloud Storage by SugarSync Password Manager Norton™ Internet Security 2012 (30 days of virus definitions) ThinkVantage System Update			
Camera Video capture	Front camera: 2.0-megapixel, fixed focus Rear camera: 8.0-megapixel, auto focus, flash LED 720p video capture	AccuWeather Evernote® Nitro PDF			
Audio support	Realtek® ALC5642 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, combo audio/microphone jack	- • Skype™ • Amazon Kindle			
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, WAV, PCM, WMA Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid				
Control buttons Bluetooth Keyboard with Stand	Windows button, Power button, volume control button, rotation lock switch, reset switch Some: ThinkPad Tablet 2 Bluetooth Keyboard with Stand (0B47270), 6-row, TrackPoint® pointing device w/ three mouse buttons, landscape stand included, connects system via bluetooth, sealed battery with 30-day battery life, chargeable via micro-USB (one USB to micro-USB cable included)				
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, Capella CM3218 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC 3-axis gyroscope, STMicroelectronics L3G4200D				
Platform Ports	Intel Atom Z2760 SoC (System on Chip) platform One USB 2.0, one micro-USB 2.0 (only for power supply / charging), one mini-HDMI, headphone/microphone combo jack, one ThinkPad Tablet 2 Dock connector				
WLAN⁴ WWAN Carrier GNSS Bluetooth™ NFC	11a/b/g/n²e wireless, ThinkPad 11a/b/g/n, 1x1, WiFi + Bluetooth combo chip Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), WCDMA/HSPA/HSPA+ Some: AT&T® LTE (4G), contract required with service provider Global Navigation Satellite System Bluetooth 4.0 wireless, integrated in WiFi + Bluetooth combo chip Some: Near Field Communication, easy for two devices to communicate with each other				
Dimensions ³ Weight ² Case color	10.34" x 6.48" x 0.39"; 262.6mm x 164.6mm x 9.8mm WiFi only: from 1.26 lb (0.57kg); WiFi + Digitizer Pen: from 1.30 lb (0.59kg); WiFi + Digitizer Pen + WWAN: from 1.35 lb (0.61kg) Black	10-watt AC adapter (via micro-USB) GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support			
Case material	Magnesium frame, PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) cover	during the warranty period ¹²			
Battery - type Battery - life ¹⁰	Lithium Polymer, 30Whr up to 25 days (standby); up to 150 hr (MP3 playback); up to 10 hr (web browsing with flash); up to 10 hr (local video playback)	For compatible accessories, please go to O-Tablet-2 sheet; For Lenovo service ²² upgrade options			
Limited Warranty	12 1-year - depot repair service / service upgrades ²² available	please go to S-Tablet sheet			

ThinkPad® Tablet 2 (3682)

	Time model	Widescreen pe-model Processor Memory display Storage			Tablet	Front/	a Bluetooth Keyboard WLAN P) w/ Stand 802.11		PCIe Mini Card WWAN Carrier		Global (G) Blue- GMP NFC tooth (P) Preload				Ann Date	
	Type-model	Processor	wemory	display	Storage	Pen	Hear (IVIP)	w/ Stand	002.11	WWAIN	Carrier	NFC	tootn	(P)	Preioau	(mm/yy)
	3682-28U	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n ²⁸	None	None	None	BT	G	Win8 Pro32	10/12
	3682-29U	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	None	None	NFC	BT	G	Win8 Pro32	10/12
><	3682-22U	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	Gobi 4000	AT&T	NFC	BT		Win8 Pro32	12/12
	3682-2AU	Atom Z2760	2GB	10.1" HD	64G	Pen	2.0/8.0	None	11a/b/g/n	Gobi 4000	AT&T	NFC	BT		Win8 Pro32	12/12

Positioning	Touchscreen tablet for on-the-go business	Preloaded operating system ²⁰		
Processor	Intel® Atom™ Processor Z2760 (2 cores, 1.80GHz, 1MB cache), LPDDR2 memory controller (800MHz), HT technology	- Windows® 8 Pro 32-bit Preloaded applications¹⁴ (only some		
Memory	2GB / 800MHz LPDDR2, mobile DDR / soldered to systemboard, no sockets	listed)		
Storage Storage extension	32GB or 64GB / eMMC (embedded Multi Media Card) flash memory on board one microSD Card slot	Lenovo® Settings Lenovo Support Lenovo Companion		
Graphics	PowerVR™ SGX545 graphics in Intel Atom SoC, supports 1080p video out via mini-HDMI™ connector, HDCP-compliant	Lenovo QuickSnip AT&T® All Access		
Display Tablet pen	10.1" (256.5mm) HD (1366x768) TFT color, anti-reflective display with infinity AGC Dragontrail™ Glass, LED backlight, 400 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports five-finger gesture ThinkPad Tablet 2 Digitizer Pen (0A33899), supports hover, tip, and pressure modes / a button for selection / no batteries required *The models without Tablet Pen can not support pen input function via optional ThinkPad Tablet 2 Digitizer Pen (0A33899)	Lenovo Cloud Storage by SugarSync Password Manager Norton™ Internet Security 2012 (30 days of virus definitions) ThinkVantage System Update AccuWeather Evernote®		
Camera Video capture	Front camera: 2.0-megapixel, fixed focus Rear camera: 8.0-megapixel, auto focus, flash LED 720p video capture	Nitro PDF Skype™ Amazon Kindle		
Audio support	Realtek® ALC5642 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, combo audio/microphone jack			
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, WAV, PCM, WMA Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid			
Control buttons Bluetooth Keyboard with Stand	Windows button, Power button, volume control button, rotation lock switch, reset switch Some: ThinkPad Tablet 2 Bluetooth Keyboard with Stand (0B47270), 6-row, TrackPoint® pointing device w/ three mouse buttons, landscape stand included, connects system via bluetooth, sealed battery with 30-day battery life, chargeable via micro-USB (one USB to micro-USB cable included)			
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, Capella CM3218 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC 3-axis gyroscope, STMicroelectronics L3G4200D			
Platform Ports	Intel Atom Z2760 SoC (System on Chip) platform One USB 2.0, one micro-USB 2.0 (only for power supply / charging), one mini-HDMI, headphone/microphone combo jack, one ThinkPad Tablet 2 Dock connector			
WLAN⁴ WWAN Carrier GNSS Bluetooth™ NFC	11a/b/g/n² ⁸ wireless, ThinkPad 11a/b/g/n, 1x1, WiFi + Bluetooth combo chip <i>Some:</i> Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), WCDMA/HSPA/HSPA+ <i>Some:</i> AT&T® LTE (4G), contract required with service provider Global Navigation Satellite System Bluetooth 4.0 wireless, integrated in WiFi + Bluetooth combo chip <i>Some:</i> Near Field Communication, easy for two devices to communicate with each other			
Dimensions ³ Weight ²	10.34" x 6.48" x 0.39"; 262.6mm x 164.6mm x 9.8mm WiFi only: from 1.26 lb (0.57kg); WiFi + Digitizer Pen: from 1.30 lb (0.59kg); WiFi + Digitizer Pen + WWAN:from 1.35 lb (0.61kg) Black	10-watt AC adapter (via micro-USB) GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support		
Case material	Magnesium frame, PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) cover	during the warranty period ¹²		
Battery - type Battery - life ¹⁰	Lithium Polymer, 30Whr up to 25 days (standby); up to 150 hr (MP3 playback); up to 10 hr (web browsing with flash); up to 10 hr (local video playback)	For compatible accessories, please go to O-Tablet-2 sheet; For Lenovo service ²² upgrade options,		
Limited Warranty ¹³	² 1-year - depot repair service / service upgrades ²² available	please go to S-Tablet sheet		

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ThinkPad® Tablet 2 Accessories

ThinkPad Tablet Expansion ThinkPad Tablet 2 Dock 0B47109 ann 10/23/12

Keyboard

ThinkPad Tablet 2 Bluetooth Keyboard with Stand 0B47270 ann 10/23/12

ThinkPad In-Ear Headphones with microphone 57Y4488 ann 01/07/10

Tablet

ThinkPad Tablet 2 Digitizer Pen

OA33899 ar

The ThinkPad Tablet 2 models without Tablet Pen can not support pen input function via ThinkPad Tablet 2 Digitizer Pen (0A33899) 0A33899 ann 10/23/12

Security 3M ThinkPad Tablet 2 Privacy Filter (landscape) 0C33167 ann 10/23/12 3M ThinkPad Tablet 2 Privacy Filter (portrait) 0C33168 ann 10/23/12 3M ThinkPad Tablet 2 Privacy Filter (4-way) 0C33170 ann 10/23/12 3M ThinkPad Tablet 2 Anti-glare Matte Removable Film 0C33169 ann 10/23/12

Power Adapters
ThinkPad Tablet 2 AC Charger
ThinkPad Tablet DC Charger 0B47010 ann 10/23/12 0A36247 ann 08/16/11 40Y7696 ann 01/05/06 ThinkPad 65W AC Adapter⁶⁶
66 Attachment via the *ThinkPad Tablet 2 Dock 0B47109*

More info at www.lenovo.com/support/poweradapters

Carrying Cases
ThinkPad Tablet 2 Fitted Sleeve⁷¹ 0A33902 ann 10/23/12 ThinkPad Tablet 2 Fitted Sleeve perfectly fits the ThinkPad Tablet 2 and ThinkPad Tablet 2 Bluetooth Keyboard with Stand 0B47270

ThinkPad 11W Sling Case
ThinkPad Tablet 2 Slim Case - Black 57Y4287 ann 08/16/11 0A33907 ann 10/23/12 ThinkPad Tablet 2 Slim Case - Red 0A33905 ann 10/23/12

More information at www.lenovo.com/support/cases Lenovo luxury cases at www.lenovoluxurycases.com

Monitor Accessories⁴⁶

ThinkPad Tablet 2 VGA Adapter 0B47084 ann 10/23/12 ⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

For more information on accessories: www.lenovo.com/accessories

Purchase Lenovo accessories

www.lenovo.com/support/accessories

Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide

Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com

An Options Compatibility Configurator for Lenovo systems

ThinkPad® Tablet / Tablet 2 - TopSeller Services

The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.

For more information see:

http://www2.partnerinfo.lenovo.com/partners/us/resources/salestoolkit.shtml

TopSeller service upgrade options for ThinkPad Tablet / Tablet 2	
ThinkPad Tablet / Tablet 2 with 1-year Depot warranty	

3 YEAR Depot Warranty	04W8773
3 YEAR Depot Warranty & ThinkPad Protection	04W8775
3 YEAR Onsite Warranty	04W8774
3 YEAR Onsite Warranty & ThinkPad Protection	04W8776

ThinkPad® Tablet / Tablet 2 - Lenovo® Services

Partial list of Lenovo Services²² for ThinkPad Tablet / Tablet 2

For more information see: http://www.lenovo.com/services_warranty/us/en/index.html

Lenovo service upgrade options for ThinkPad Tablet / Tablet 2

ThinkPad Tablet / Tablet 2 with 1-year Depot warranty

1 YEAR Depot Warranty & ThinkPad Protection	04W8309
2 YEAR Depot Warranty	04W8312
2 YEAR Depot Warranty & ThinkPad Protection	04W8313
3 YEAR Depot Warranty	04W8319
3 YEAR Depot Warranty & ThinkPad Protection	04W8320
1 YEAR Onsite Warranty	04W8326
2 YEAR Onsite Warranty	04W8330
3 YEAR Onsite Warranty	04W8337

Lenovo Priority Support for enterprise customers

• 24x7 support with priority routing and advanced level technicians

ThinkPad Tablet / Tablet 2 with 1-year Depot warranty

1 YEAR Depot Warranty & Priority Support*	04W8310
1 YEAR Depot Warranty & ThinkPad Protection & Priority Support*	04W8311
2 YEAR Depot Warranty & Priority Support*	04W8315
2 YEAR Depot Warranty & ThinkPad Protection & Priority Support*	04W8316
3 YEAR Depot Warranty & Priority Support*	04W8322
3 YEAR Depot Warranty & ThinkPad Protection & Priority Support*	04W8323
1 YEAR Onsite Warranty & Priority Support* 2 YEAR Onsite Warranty & Priority Support*	04W8328 04W8333
2 YEAR Onsite Warranty & ThinkPad Protection & Priority Support*	04W8334
3 YEAR Onsite Warranty & Priority Support*	04W8340
3 YEAR Onsite Warranty & ThinkPad Protection & Priority Support*	04W8341

^{*} Covered machine must have concurrent warranty coverage.

ThinkPad_®



Lenovo® ThinkPad Helix (Stand mode)



Lenovo ThinkPad Helix (Tablet mode) with ThinkPad Helix Digitizer Pen 0A33910



Lenovo ThinkPad Helix (Notebook mode)



Lenovo ThinkPad Helix



Lenovo ThinkPad Helix (Notebook mode)



Lenovo ThinkPad Helix





Lenovo ThinkPad Helix (Notebook mode)

Lenovo ThinkPad Helix (Tablet+ mode)



Lenovo ThinkPad Helix



Lenovo ThinkPad Helix (Notebook mode)

ThinkPad® Helix (3698) - TopSeller

Type-model	Processor I		Widescreen display				Enhance Keyboard		PCIe Mini Card WWAN	Carrier	NFC	Blue- tooth	Intel AMT	Intel vPro	Preload	Ann Date
						•										(mm/yy)
3698-4UU	i7-3667U	8GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S ²⁸	Gobi 4000	AT&T	NFC	BT	iAMT	vPro	Win8 Pro64	03/13
3698-4TU	i7-3667U	8GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	None	BT	iAMT	vPro	Win8 Pro64	03/13
3698-4PU	i5-3427U	4GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	iAMT	vPro	Win8 Pro64	03/13
3698-4NU	i5-3427U	4GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	iAMT	vPro	Win8 Pro64	03/13
3698-4SU	i7-3667U	8GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	iAMT	vPro	Win8 Pro64	03/13
3698-4RU	i7-3667U	8GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	iAMT	vPro	Win8 Pro64	03/13
3698-4MU	i5-3427U	4GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	iAMT	vPro	Win8 Pro64	03/13
3698-4LU	i5-3337U	4GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	None	No	Win8 Pro64	03/13
3698-4KU	i5-3337U	4GB	11.6" FHD	256G	No	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	None	No	Win8 Pro64	03/13
3698-4JU	i5-3337U	4GB	11.6" FHD	180G	No	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	None	No	Win8 Pro64	03/13
3698-6EU	i5-3337U	4GB	11.6" FHD	128G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	None	No	Win8 Pro64	04/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning	Convertible design for four modes - Notebook, Stand, Tablet, and Tablet +	Preloaded operating system ²⁰
Processor	Intel® Core™ i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	- Windows® 8 Pro 64-bit Preloaded applications¹⁴ (only some listed) - Traditional Desktop apps • Lenovo® Solution Center • ThinkVantage System Update
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	Password Manager
Storage	mSATA Solid State Drive (SSD), via PCIe Mini Card slot	Lenovo Cloud Storage by SugarSync
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	PC Device Stage Nitro PDF Reader Microsoft Office 2013 preloaded; purchase product key to activate Intel Small Business Advantage
Display Digitizer Pen	11.6" (295mm) FHD (1920x1080) TFT color, VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution Some: Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required, pen holder on Tablet * The models without Digitizer Pen can not support pen input function via optional ThinkPad Helix Digitizer Pen (0A33910)	- Windows Store apps • Lenovo Settings • Lenovo Experience • Lenovo Support • Lenovo Companion • AT&T® All Access • Norton™ Internet Security 2013 (30 days of virus definitions)
Camera Video capture	Front camera: 2.0-megapixel, 1080p resolution, fixed focus Rear camera: 5.0-megapixel, 1080p resolution, auto focus, flash LED 1080p video capture	AccuWeather Evernote®Skitch (MultiTouch models)
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array digital microphone, combo audio/microphone jack	Skype™Amazon Kindle
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, WAV, WMA Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid	
Control buttons Keyboard Dock	Windows button, Power button, volume control button, rotation lock switch, reset switch Keyboard Dock, 6-row spill-resistant keyboard, TrackPoint® pointing device, MultiTouch glass touchpad w/ 5 integrated buttons, landscape stand, security keyhole, two USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 28Wh), the 45-watt AC adapter can charge both the Tablet battery and Keyboard Dock battery	
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, Capella CM3218 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC 3D gyroscope, STMicroelectronics L3GD20	
Chipset Tablet ports Monitor Cable	Mobile Intel QS77 Express Chipset One USB 2.0, one Mini DisplayPort, SIM card slot, Keyboard Dock connector None	
WLAN ⁴ WWAN	11a/b/g/n ²⁸ , PCIe SFF (Small Form Factor) Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), PCIe TFF (Thin Form Factor) Mini Card, WCDMA/HSPA/HSPA+, GPS	
Carrier Bluetooth™ Ethernet NFC	Some: AT&T® LTE (4G), contract required with service provider Bluetooth 4.0 wireless None Some: Near Field Communication, easy for two devices to communicate with each other	
Intel AMT Security chip	Some: Intel Active Management Technology (iAMT) Trusted Platform Module, TCG 1.2-compliant	
Dimensions ³ Weight ²	Tablet only: 11.66" x 7.37" x 0.46"; 296.1mm x 187.3mm x 11.6mm Tablet with Keyboard Dock: 11.66" x 8.90" x 0.80"; 296.1mm x 226mm x 20.4mm Tablet only: from 1.73 lb (0.785kg); Tablet with Keyboard Dock: from 3.54 lb (1.606kg)	45-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Case color	Black	RoHS-compliant .
Case material	Magnesium + PC/ABS (PolyCarbonate/Acrylonitrile-Butadiene-Styrene)	International Warranty Service ¹⁷
Battery - type Battery - life ¹⁰	Tablet battery: Integrated Lithium Polymer 3-cell battery, 42Whr Keyboard Dock battery: Integrated Lithium Polymer 4-cell battery, 28Whr MobileMark® 2012: Tablet only: up to 5.6 hr; Tablet with Keyboard Dock: up to 8.0 hr	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
	12 3-years /1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® Helix (3701)

	Camera Enhanced Widescreen Digitizer Front/ Keyboard WLA			PCIe Mini Card			Global (G Blue- Intel GMP				Ann Date					
Type-model	Processor	Memory		Storage	2	Rear (MP)		802.11	WWAN	Carrier	NFC	tooth			Preload	(mm/yy)
3701-37U	i7-3667U	8GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S28	Gobi 4000	AT&T	NFC	ВТ	vPro		Win8 Pro64	03/13
3701-36U	i7-3667U	8GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	vPro		Win8 Pro64	1 03/13
3701-35U	i5-3427U	4GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	vPro		Win8 Pro64	03/13
3701-34U	i5-3427U	4GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	vPro		Win8 Pro64	1 03/13
3701-33U	i7-3667U	8GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	vPro	G	Win8 Pro64	03/13
3701-32U	i5-3427U	4GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	NFC	BT	vPro	G	Win8 Pro64	1 03/13
3701-2QU	i7-3667U	8GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	None	BT	vPro		Win8 Pro64	03/13
3701-2PU	i5-3427U	4GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	None	None	None	BT	vPro		Win8 Pro64	1 03/13

• A depot repair service 3-year limited warranty

Positioning	Convertible design for four modes - Notebook, Stand, Tablet, and Tablet +	Preloaded operating system ²⁰
Processor	Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	- Windows® 8 Pro 64-bit Preloaded applications¹⁴ (only some listed) - Traditional Desktop apps
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	Lenovo® Solution Center
Storage	mSATA Solid State Drive (SSD), via PCle Mini Card slot	ThinkVantage System Update Password Manager
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	 Lenovo Cloud Storage by SugarSync PC Device Stage Nitro PDF Reader Microsoft Office 2013 preloaded;
Display Digitizer Pen	11.6" (295mm) FHD (1920x1080) TFT color, VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required, pen holder on Tablet * The models without Digitizer Pen can not support pen input function via optional ThinkPad Helix Digitizer Pen (0A33910)	purchase product key to activate Intel Small Business Advantage - Windows Store apps Lenovo Settings Lenovo Experience Lenovo Support Lenovo Companion
Camera Video capture	Front camera: 2.0-megapixel, 1080p resolution, fixed focus Rear camera: 5.0-megapixel, 1080p resolution, auto focus, flash LED 1080p video capture	 AT&T® All Access Norton™ Internet Security 2013 (30 days of virus definitions) AccuWeather
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array digital microphone, combo audio/microphone jack	Evernote® Skitch (MultiTouch models) Skype™
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, WAV, WMA Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid	Amazon Kindle
Control buttons Keyboard Dock	Windows button, Power button, volume control button, rotation lock switch, reset switch Keyboard Dock, 6-row spill-resistant keyboard, TrackPoint® pointing device, MultiTouch glass touchpad w/5 integrated buttons, landscape stand, security keyhole, two USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 28Wh), the 45-watt AC adapter can charge both the Tablet battery and Keyboard Dock battery	
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, Capella CM3218 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC 3D gyroscope, STMicroelectronics L3GD20	
Chipset Tablet ports Monitor Cable	Mobile Intel QS77 Express Chipset One USB 2.0, one Mini DisplayPort, SIM card slot, Keyboard Dock connector None	
WLAN ⁴ WWAN	11a/b/g/n²8, PCIe SFF (Small Form Factor) Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), PCIe TFF (Thin Form Factor) Mini Card, WCDMA/HSPA/HSPA+, GPS	
Carrier Bluetooth™ Ethernet NFC Intel AMT Security chip	Some: AT&T® LTE (4G), contract required with service provider Bluetooth 4.0 wireless None Some: Near Field Communication, easy for two devices to communicate with each other Intel Active Management Technology (iAMT) Trusted Platform Module, TCG 1.2-compliant	
Dimensions ³ Weight ²	Tablet only: 11.66" x 7.37" x 0.46"; 296.1mm x 187.3mm x 11.6mm Tablet with Keyboard Dock: 11.66" x 8.90" x 0.80"; 296.1mm x 226mm x 20.4mm Tablet only: from 1.73 lb (0.785kg); Tablet with Keyboard Dock: from 3.54 lb (1.606kg)	45-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Case color Case material	Black Magnesium + PC/ABS (PolyCarbonate/Acrylonitrile-Butadiene-Styrene)	RoHS-compliant International Warranty Service ¹⁷
Battery - type	Tablet battery: Integrated Lithium Polymer 3-cell battery, 42Whr Keyboard Dock battery: Integrated Lithium Polymer 4-cell battery, 28Whr	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Battery - life ¹⁰ Limited Warranty	MobileMark® 2012: Tablet only: up to 5.6 hr; Tablet with Keyboard Dock: up to 8.0 hr 12 3-years/1-yr battery - depot repair service / service upgrades²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® Helix (3702) - Onsite

Type-model	Processor		Widescreen display	D Storage		Camera I r Front/ I Rear (MP)	Enhanced Keyboard Dock		PCIe Mini Card WWAN	Carrier	NFC	Blue- tooth	Intel	obal (0 GMP (P)	G) Preload	Ann Date (mm/yy)
3702-5AU	i5-3427U	4GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S ²⁸	None	None	NFC	ВТ	vPro	GΡ	Win8 Pro64	1 03/13
3702-46U	i7-3667U	8GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	vPro		Win8 Pro64	1 03/13
3702-45U	i7-3667U	8GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	vPro		Win8 Pro64	03/13
3702-44U	i5-3427U	4GB	11.6" FHD	256G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	vPro		Win8 Pro64	1 03/13
3702-43U	i5-3427U	4GB	11.6" FHD	180G	Pen	2.0/5.0	Dock	Intel 6205S	Gobi 4000	AT&T	NFC	BT	vPro		Win8 Pro64	1 03/13

• Some models are part of the Global Models Plus program with limited onsite service24 3-year limited warranty

Positioning	Convertible design for four modes - Notebook, Stand, Tablet, and Tablet +	Preloaded operating system ²⁰
Processor	Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	- Windows® 8 Pro 64-bit Preloaded applications¹⁴ (only some listed) - Traditional Desktop apps
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	Lenovo® Solution Center
Storage	mSATA Solid State Drive (SSD), via PCIe Mini Card slot	ThinkVantage System Update Password Manager
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	Lenovo Cloud Storage by SugarSync PC Device Stage Nitro PDF Reader Microsoft Office 2013 preloaded;
Display Digitizer Pen	11.6" (295mm) FHD (1920x1080) TFT color, VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required, pen holder on Tablet *The models without Digitizer Pen can not support pen input function via optional ThinkPad Helix Digitizer Pen (0A33910)	purchase product key to activate Intel Small Business Advantage - Windows Store apps Lenovo Settings Lenovo Experience Lenovo Support Lenovo Companion AT&T® All Access
Camera	Front camera: 2.0-megapixel, 1080p resolution, fixed focus	 Norton™ Internet Security 2013
Video capture	Rear camera: 5.0-megapixel, 1080p resolution, auto focus, flash LED 1080p video capture	(30 days of virus definitions) • AccuWeather
Audio support	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array digital microphone, combo audio/microphone jack	Evernote® Skitch (MultiTouch models) Skype™
Media capable	Audio formats: MP3, AAC, AAC+, eAAC+, WAV, WMA Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid	Amazon Kindle
Control buttons Keyboard Dock	Windows button, Power button, volume control button, rotation lock switch, reset switch Keyboard Dock, 6-row spill-resistant keyboard, TrackPoint® pointing device, MultiTouch glass touchpad w/ 5 integrated buttons, landscape stand, security keyhole, two USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 28Wh), the 45-watt AC adapter can charge both the Tablet battery and Keyboard Dock battery	
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, Capella CM3218 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC 3D gyroscope, STMicroelectronics L3GD20	
Chipset Tablet ports Monitor Cable	Mobile Intel QS77 Express Chipset One USB 2.0, one Mini DisplayPort, SIM card slot, Keyboard Dock connector None	
WLAN ⁴ WWAN	11a/b/g/n²8, PCIe SFF (Small Form Factor) Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), PCIe TFF (Thin Form Factor) Mini Card, WCDMA/HSPA/HSPA+, GPS	
Carrier Bluetooth™ Ethernet NFC Intel AMT Security chip	Some: AT&T® LTE (4G), contract required with service provider Bluetooth 4.0 wireless None Near Field Communication, easy for two devices to communicate with each other Intel Active Management Technology (iAMT) Trusted Platform Module, TCG 1.2-compliant	
Dimensions ³	Tablet only: 11.66" x 7.37" x 0.46"; 296.1mm x 187.3mm x 11.6mm	
Weight ²	Tablet with Keyboard Dock: 11.66" x 8.90" x 0.80"; 296.1mm x 226mm x 20.4mm Tablet only: from 1.73 lb (0.785kg); Tablet with Keyboard Dock: from 3.54 lb (1.606kg)	45-watt AC adapter EPEAT™ Gold rating
Case color Case material	Black Magnesium + PC/ABS (PolyCarbonate/Acrylonitrile-Butadiene-Styrene)	ENERGY STAR® 5.0-compliant RoHS-compliant
Battery - type	Tablet battery: Integrated Lithium Polymer 3-cell battery, 42Whr	International Warranty Service ¹⁷
Battery - life ¹⁰	Keyboard Dock battery: Integrated Lithium Polymer 4-cell battery, 28Whr MobileMark® 2012: Tablet only: up to 5.6 hr; Tablet with Keyboard Dock: up to 8.0 hr	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Limited Warranty	12 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® Helix Accessories			
Storage and removable storage USB 2.0 Portable 500GB Hard Disk USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive Lenovo® Slim USB Portable DVD Burner	45K1690 0A65619 0A65616 0A33988	ann 05/26/09 ann 11/29/11 ann 11/29/11 ann 06/14/11	Power Adapters ThinkPad 45W AC Adapter 90W Ultraslim AC/DC Combo 70 Requires the Lenovo Slim More info at www.lenovo.com
ThinkPad Expansion USB 2.0 Port Replicator with Digital Video ThinkPad USB 3.0 Dock Lenovo Essential Notebook Stand	0A33942 0A33970 45J9292	ann 03/22/11 ann 05/15/12 ann 05/12/09	Charging tips for 90W Ultrasline Lenovo Slim Power Tip More information at www.leno
Keyboard TrackPoint Cap Collection Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad Preferred Pro USB Keyboard Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint Lenovo USB Fingerprint Keyboard Lenovo USB Smartcard Keyboard 52 Wireless via 2.4GHz technology using a mice	33L3225 73P5220 73P2620 55Y9003 73P4730 51J0155	ann 12/16/03 ann 04/05/11 ann 05/01/00 ann 06/21/05 ann 03/23/04 ann 08/18/09 ann 02/22/05 ann 03/24/09 eceiver.	Carrying Cases Up to 12.5" widescreen mode. ThinkPad 12W Case Sleeve ThinkPad 12.5" Ultrabook Top Up to 14" widescreen models. ThinkPad 14W Case Sleeve ThinkPad Ultralight Backpack ThinkPad Ultralight Topload Up to 15.6" widescreen mode. Lenovo Messenger Max
Mouse Lenovo Optical Mouse (USB) Lenovo Laser Mouse (USB) ThinkPad USB Laser Mouse Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical) Lenovo Wireless Laser Mouse	06P4069 41U3074 57Y4635 31P7405 31P7410 0A36188	ann 05/21/03 ann 01/23/07 ann 12/15/09 ann 08/27/02 ann 06/04/02 ann 12/20/11	Lenovo Performance BackPac ThinkPad Business Topload C ThinkPad Business Backpack ThinkPad Deluxe Expander C ThinkPad Executive Leather C Lenovo Sport Backpack - Red Lenovo Sport Slimcase - Red Lenovo Sport Messenger - Re
Multimedia ThinkPad In-Ear Headphones with microphone Tablet ThinkPad Helix Digitizer Pen ⁷³ 73 The ThinkPad Helix models without Tablet Pe	0A33910	ann 01/07/10 ann 01/29/13	Lenovo Sport Backpack - Blue Lenovo Sport Slimcase - Blue Lenovo Sport Messenger - Blu Lenovo Sport Backpack - Grey Lenovo Sport Slimcase - Grey Lenovo Sport Messenger - Gr

Modelli		
USB 2.0 Lenovo Modem	43R1814	ann 02/26/08

pen input function via ThinkPad Helix Digitizer Pen (0A33910)

Ethernet

Lenovo USB 2.0 Ethernet Adapter 0A36322 ann 08/14/12

Security_

3M ThinkPad Helix Privacy Filter (4-way)	4Z10A23288	ann	03/26/13
3M ThinkPad Helix Anti-glare Screen Protector	4Z10A23289	ann	03/26/13
USB Gemplus GemPC Šmart Card Reader	41N3040	ann	02/21/06

0B47030 ann 01/29/13 41R4493 ann 09/22/09 o Adapter⁷⁰ Power Tip 0B47048

m/support/poweradapters

lim AC/DC Combo Adapter 41R4493 0B47048 ann 08/14/12

novopowertips.com

Up to 12.5" widescreen models: ThinkPad 12W Case Sleeve ThinkPad 12.5" Ultrabook Topload		ann 08/18/09 ann 12/04/12
Up to 14" widescreen models: ThinkPad 14W Case Sleeve ThinkPad Ultralight Backpack ThinkPad Ultralight Topload	0B47306	ann 03/16/10 ann 12/11/12 ann 12/11/12
Up to 15.6" widescreen models: Lenovo Messenger Max Lenovo Performance BackPack ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case ThinkPad Executive Leather Case Lenovo Sport Backpack - Red Lenovo Sport Messenger - Red Lenovo Sport Backpack - Blue Lenovo Sport Slimcase - Blue Lenovo Sport Messenger - Blue	43R2476 43R2482 43R2478 43R2480 0A33896 0A33897 0A33898 0B47298 0B47300	ann 05/01/07 ann 05/01/07 ann 05/13/08 ann 05/13/08 ann 05/13/08 ann 05/13/08 ann 02/28/12 ann 02/28/12 ann 02/28/12 ann 08/28/12 ann 08/28/12
Lenovo Sport Messenger - Grey Lenovo Sport Slimcase - Grey Lenovo Sport Messenger - Grey	0B47301	ann 08/28/12 ann 08/28/12 ann 08/28/12

More information at www.lenovo.com/support/cases

ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)69 4420MB2 ann 09/13/11 69 DisplayPort cable is not included.

More information at www.lenovo.com/support/monitors www.lenovo.com/support/thinkpad/optimus-monitors

Monitor Accessories⁴⁶

Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 Lenovo USB Soundbar 0A36190 ann 05/01/12 Lenovo Easy Reach Monitor Stand 55Y9258 ann 09/22/09 ⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.

More information at www.lenovo.com/support/monitoraccessories

For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories

www.lenovo.com/support/accessories

Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com

An Options Compatibility Configurator for Lenovo systems







Lenovo® ThinkPad L430 Lenovo ThinkPad L430





Lenovo ThinkPad L430

Lenovo ThinkPad L430







Lenovo ThinkPad L430

ThinkPad® L430 2468 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Card slot	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Ann Date (mm/yy)
2468-2AU	i3-2370M	4GBx1	14.0" HD	720p	320G 7200	Intel 2200	WWAN upg	Express 54	None	None	6	Pro 64	06/12
2468-3AU	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	Intel 2200	WWAN upg	None	None	None	6	Pro 64	07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i3-2370M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	ome listed) • Rescue and Recovery™ • Password Manager
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Preloaded applications¹⁴ (only some listed) • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™
mSATA™ SSD	None	Fingerprint Software (fingerprint)
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio	models) ThinkVantage System Update ThinkVantage Power Manager Norton™ Internet Security 2012
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	(30 days of virus definitions)
Graphics	Intel HD Graphics 3000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Adobe® Reader® Skype™ for Windows Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate Core® WinDVD® (DVD±RW)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	
Chipset ExpressCard Smart Card read Multicard Reader Ports	Mobile Intel HM76 Express Chipset Some: One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card	Two PCI Express Mini Card slots	Supports ThinkVantage® technologies
PCIe WLAN ⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	Tub/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Wireless WAN upgradable None None None Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	For compatible accessories, please go to O-L430 sheet;
	1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

See footnotes for more detailed information US model(s) announced June 5 or July 31, 2012

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ThinkPad® L430 2468 (TopSeller) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Card slot	Finger print reader	Blue- tooth		Preload	Ann Date (mm/yy)
2468-3BU	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	Intel 2200	WWAN upg	None	None	No	6	Win8 Pro64	10/12
2468-4YU	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	Intel 6205 ²⁸	WWAN upg	Express 54	Finger	BT	6	Win7 Pro64	02/13
2468-4XU	i5-3230M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	Express 54	Finger	BT	6	Win7 Pro64	02/13
2468-62U	i3-2348M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	Express 54	Finger	BT	6	Win7 Pro64	05/13

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Memory 8GB max² / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets System automatically clocks down for processors with 1333MHz DDR3 memory controller Optical DVD Durner, 12.7mm high, fixed, not removable, tray-in SATA disk Som: Hard Disk Drive (SSD) / SATA 6.0Gb/s, 2.5° wide, 7mm ro 9.5mm high, removable, upgradable, Som: Hard Disk Drive (SSD) / SATA 6.0Gb/s, 2.5° wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™ Mone Widescreen display Som: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (100x800) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (100x800) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (100x800) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (100x800) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (100x800) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (100x800) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (1366x768) color anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (1366x768) color anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.0° (355mm) HD (1366x768) color anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400·1 contrast ratio Some: 14.	Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Optical SATA disk Some: Hard Disk Orive (SSD) / SATA 6.0Gb/s, 2.5° wide, 7mm high, removable, upgradable - Access Connections ** Some: Hard Disk Orive / SATA 3.0Gb/s, 2.5° wide, 7mm or 9.5mm high, removable, upgradable - Actes of the provide of the protection System** None **Midescreen display** **Some: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio	Memory	dual-channel capable, two 204-pin SO-DİMM sockets	- Windows 7 models
Microsoft* Office 2010 preloaded; Widescrean display Some: 14.0* (355mm) HD (1365x768) color, anti-glare, LED backlight, 200 nits. 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0* (355mm) HD (1306x090) color, anti-glare, LED backlight, 250 nits. 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0* (355mm) HD (1500x090) color, anti-glare, LED backlight, 250 nits. 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphices 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display: Maximum external resolution: 2560x1600 @ 60Hz (DisplayPort via optional Mini DP cable); 1920x12000 @60Hz (single-link DVH1 via optional Mini DP cable); 2048x1536@75Hz (VGA) Keyboard TrackPoint* Pointing device, Internet Scroll Barr* in magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None Battery - Itle* G-cell (57Whr): up to 7.5 hr: 9-cell (94Whr): up to 12.3 hr Chipset Express Card Some: 11b/gin, PCie Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Mobile Intel HM76 Express Chipset Some: 11b/gin, PCie Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIe WWAN Carrier Modem None Bluetooth 4.0 wireless PCIe WWAN Carrier Modem None Bluetooth None Some: Bluetooth 4.0 wireless Ethernet Intel AMT None None Bluetooth Power-God ration None Some: Bluetooth 4.0 wireless Ethernet Intel AMT None None Bluetooth Power-God ration None Some: Bluetooth 4.0 wireless Ethernet Intel AMT None None Bluetooth Power-God ration None Road Ration None Bluetooth Power-God ration None		Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high,	 ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager
display 200 nits, 16:9 aspect ratio, 400-1 contrast ratio 250 nits of r	mSATA™ SSD		
Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via Wini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 2048x1536@75Hz (VGA) 1920x1200@60Hz (single-link DVI-1 via optional Mini DP cable); 2048x1536@75Hz (VGA) 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint** pointing device, Internet Scroll Bar³ magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None None None Strong Po-cell: from 5.11 lb (2.32kg); 9-cell: from 5.11 lb (display	200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW)
supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560xt 600@60Hz (DisplayPort via optional Mini DP cable); 1920xt200@60Hz (single-link DVI-I via optional Mini DP cable); 2048xt356@75Hz (VGA) Keyboard TrackPoint*		<u> </u>	
TrackPoint® TrackPoint® Jointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None Dimensions³ ### 14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm G-ceell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Case material Battery - type Battery - type Battery - life¹⁰ ### 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr Chipset ExpressCard Smart Card read Multicard Reader PCIE Mini Card PCIE WIAN¹ Some: 11a/b/g/n, PCIE Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIE Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIE WWAN Carrier None Modem None Modem None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 volume up, down, mute buttons / roombo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Some: AuthenTeel Gingerprint reader on palm rest, swipe sensor, LED indicator, supports the security cipip	Graphics	supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);	Lenovo SupportLenovo CompanionLenovo QuickLaunch
Dimensions³ 14.0W" (MxDxH): 13.94" x 9.57" x 1.17-1.24"; 354mm x 243mm x 29.6-31.4mm Weight³ G-cell: from 5.11 lb (2.32kg): 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium lon 6-cell or 9-cell, HW Authentication Battery - type G-cell (57Wni): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr Chipset ExpressCard Chipset Some: One slot (ExpressCard/34, ExpressCard/54) Mone Multicard Reader Ports One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) PCIe Mini Card PCIe WLAN⁴ Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIe WWAN Carrier Modem Modem None Bluetooth¹™ Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection Intel AMT Audio support Audio, Realtek ALC3202 codec, Dolby® Advanced Audio¹™ v2 / stereo speakers, 1.5W x 2 volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports service² upgrade options,	TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass ´ UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	purchase product key to activateCyberlink Power2Go (DVD±RW)Cyberlink PowerProducer
Chipset ExpressCard Some: One slot (Express Card/34, ExpressCard/54) Somart Card read Multicard Reader Ports One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) PCIe Mini Card PCIe WLAN4 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIe WWAN Wireless WAN upgradable Some: Bluetooth 4.0 wireless Wanupgradable Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection Intel AMT None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Fecurity Chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip None AlthenTec Tingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security • Norton™ Internet (RJ-45) • Lenovo Cloud Storage by SugarSync • Norton™ Internet (RJ-45) • Norton™ Internet (RJ-45) • Lenovo Cloud Storage by SugarSync • Norton™ Internet (RJ-45) • Lenovo Floud Storage by SugarSync • Norton™ Internet (RJ-45) • Norton™ Internet (RJ-45) • Lenovo Floud Storage by SugarSync • Norton™ Internet (RJ-45) • Norton™ Internet (RJ-45) • Lenovo Floud Storage by SugarSync • Norton™ Internet (RJ-45) • Lenovo Floud Storage by SugarSync • Norton™ Internet (RJ-45) • Lenovo Floud Storage by SugarSync • Norton™ Internet (RJ-45) • Lenovo Floud Storage by SugarSync • Norton™ Internet (RJ-45) • Lenovo Floud Storage by SugarSync • Norton™ Internet (RJ-45) • Lenovo Floud Storage for Norton™ Norton™ (RJ-45) • Lenovo Floud Storage for Norton™ Norton™ (RJ-45) • Lenovo Floud Storage for Norton™ (RJ-45) • Lenovo Floud Storage for Norton™ (RJ-45) • Lenovo Floud Storage for Norton™ (RJ-45) • Lenovo Floud Storage	Weight ² Case material Battery - type	6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication	 All models Lenovo Solution Center Password Manager Fingerprint Software (fingerprint
PCIe WLAN⁴ Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 PCIe WWAN Carrier None None Bluetooth™ Some: Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Audio support Audio support Security Security Security Security Security For compassword, hard disk password, supports the security chip Fingerprint reader Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Supports ThinkVantage® technologies 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹¹ 24 hour x 7 day¹¹² toll-free support during the warranty period¹² For compatible accessories, please go to O-L430 sheet; For Lenovo service²² upgrade options,	ExpressCard Smart Card read Multicard Reader	Some: One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MMC, SD, SDHC, SDXC)	Lenovo Cloud Storage by SugarSync Norton™ Internet Security
Carrier Modem None Bluetooth™ Some: Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Audio support HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Fingerprint reader Fingerprint reader Fingerprint reader Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Security Fower-on password, hard disk password, reprevision password, security keyhole Fingerprint reader Fingerprint reader For compatible accessories, please go to O-L430 sheet; For Lenovo service²² upgrade options,	PCIe WLAN⁴	Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
Modem Bluetooth™ Bluetooth™ Some: Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Audio support Security Securi			
Bluetooth TM Some: Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Audio support Security Security Security Security Security chip Fingerprint reader Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None RoHS-compliant International Warranty Service¹¹ 24 hour x 7 day¹¹⁵ toll-free support during the warranty period¹² For compatible accessories, please go to O-L430 sheet; For Lenovo service²² upgrade options,		· · · · · ·	
Intel AMT Audio support Audio support Security Security chip Fingerprint reader Some: None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to O-L430 sheet; For Lenovo service²² upgrade options,	Bluetooth™	Some: Bluetooth 4.0 wireless	GREENGUARD® certified
Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip For compatible accessories, please go to O-L430 sheet; For Lenovo service ²² upgrade options,	Intel AMT Audio support	None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support
i of Leflovo Service appliade options,	Security chip	Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	go to O-L430 sheet;
	Limited warranty ¹³		

ThinkPad® L430 2469 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Card slot	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Ann Date (mm/yy)
2469-24U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205 ²⁸	WWAN upg	None	Finger	ВТ	6	Pro 64	06/12
2469-25U	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	Intel 6205	WWAN upg	None	Finger	BT	6	Pro 64	06/12
2469-26U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	None	None	None	6	Pro 64	06/12
≈ 2469-27U	i5-3210M	4GBx1	14.0" HD	720p	320G 7200	Intel 2200	WWAN upg	None	None	None	6	Pro 64	06/12
2469-28U	i3-2370M	4GBx1	14.0" HD	720p	500G 7200	Intel 2200	WWAN upg	None	Finger	BT	6	Pro 64	06/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i3-2370M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
	Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™ • Password Manager
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Preloaded applications ¹⁴ (only some listed)
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint
mSATA™ SSD	None	models) ThinkVantage System Update
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio	ThinkVantage Power Manager Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Skype TM for Windows Windows Live TM Foregations
Graphics	Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic lthium lon 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	
Chipset	Mobile Intel HM76 Express Chipset	
ExpressCard	None	
Smart Card read Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier	Wireless WAN upgradable None	65-watt AC adapter
Modem	None	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Bluetooth™ Ethernet Intel AMT	Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None	GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷
Audio support Security	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	For compatible accessories, please go to O-L430 sheet;
Limited warranty ¹²	supports the security chip 2 3-years/1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L430 2469 (TopSeller) - Windows 8

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Card slot	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Ann Date (mm/yy)
	2469-2TU	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	Intel 6205 ²⁸	WWAN upg	Express 54	Finger	ВТ	6	Win7 Pro64	10/12
⊱<	2469-2SU	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Intel 2200	WWAN upg	Express 54	None	None	6	Win7 Pro64	10/12
⊱<	2469-2RU	i3-3110M	4GBx1	14.0" HD	720p	320G 7200	Intel 2200	WWAN upg	Express 54	None	None	6	Win7 Pro64	10/12
	2469-32U	i5-3230M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	None	Finger	BT	6	Win7 Pro64	02/13
	2469-2ZU	i5-3230M	4GBx1	14.0" HD	720p	320G 7200	Intel 2200	WWAN upg	None	None	None	6	Win7 Pro64	02/13
	2469-2YU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	None	Finger	BT	6	Win7 Pro64	02/13
	2469-2XU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	None	None	None	6	Win7 Pro64	02/13
	2469-2WU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	WLAN upg	WWAN upg	None	Finger	BT	6	Win7 Pro64	02/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i3-3110M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ - Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed) - Windows 7 models
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate
mSATA™ SSD	None	Corel® WinDVD® (DVD±RW)
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio	 Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	- Windows 8 models
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	 Lenovo Solution Center Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models)
Chipset ExpressCard Smart Card read Multicard Reader Ports	Mobile Intel HM76 Express Chipset Some: One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	 Lenovo Cloud Storage by SugarSync Norton™ Internet Security (30 days of virus definitions) Skype™
PCIe Mini Card	Two PCI Express Mini Card slots	
PCIe WLAN⁴	Some: Wireless LAN upgradable Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem Bluetooth™	Wireless WAN upgradable None None Some: Bluetooth 4.0 wireless	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Ethernet Intel AMT	Realtek® RTL8111F Gigabit Network Connection None	GREENGUARD® certified RoHS-compliant
Audio support Security	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L430 sheet;
Limited warranty ¹²	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe PC Mini Card WLAN	le Mini C WWAN/ mSATA		Smart Card Reader	Card slot	Finger print reader	Blue-	tery	Workho (W) Global (Pre-	Ann Date (mm/yy)
><	2465-33U	i5-3360M	4GBx1	14.0" HD	720p	500G 7200	Intel 620528	upg	None	Smart	Exp 54	Finger	ВТ	6	W G	Pro 64	06/12
	2465-32U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	upg	None	Smart	Exp 54	Finger	BT	6	W G	Pro 64	06/12
	2465-28U	i7-3520M	4GBx1	14.0" HD+	720p	320G 7200	Intel 6205	upg	None	None	None	Finger	BT	9		Pro 64	06/12
><	2465-29U	i5-3360M	4GBx1	14.0" HD+	720p	500G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	9	G	Pro 64	06/12
	2465-2AU	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	6	G	Pro 64	06/12
*	2465-2BU	i5-3360M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	6	G	Pro 64	06/12
	2465-2CU	i5-3320M	4GBx1	14.0" HD	None	320G 7200	Intel 2200	upg	None	None	Exp 54	None	BT	6	G	Pro 64	06/12
><	2465-2DU	i5-3360M	4GBx1	14.0" HD+	720p	320G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	9	G	Pro 64	06/12
	2465-2EU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	6	G	Pro 64	06/12
	2465-2FU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	upg	None	None	Exp 54	None	No	6	G	Pro 64	06/12
	2465-2GU	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	Intel 6205	Gobi	select	None	None	Finger	BT	9		Pro 64	06/12
	2465-2HU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	Gobi	select	None	None	Finger	BT	6		Pro 64	06/12
	2465-2JU	i5-3320M	4GBx1	14.0" HD	None	500G 7200	Intel 2200	upg	None	None	None	None	No	6		Pro 64	06/12
	2465-2KU	i5-3320M	4GBx1	14.0" HD	None	320G 7200	Intel 2200	upg	None	None	None	None	No	6		Pro 64	06/12

- A depot repair service 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

	• Microsoft® Office 2010 Product Key Heady (O10PKH)	
Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i5-3360M processor (2 cores, 2.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed) • Rescue and Recovery TM
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Password Manager Preloaded applications ¹⁴ (only some listed)
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	 Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint
mSATA™ SSD	None	models) ThinkVantage System Update
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio	ThinkVantage Power Manager Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Camera	Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Skype™ for Windows Windows Live™ Essentials
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	
	Mobile Intel HM76 Express Chipset Some: One slot (ExpressCard/34, ExpressCard/54) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	
PCIe WWAN	Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS	Supports ThinkVantage® technologies
Carrier Modem Bluetooth™	Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Ethernet Intel AMT Audio support	Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack	GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant *Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L430 sheet;
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options please go to S-TA sheet
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ThinkPad® L430 2465 (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Carrier		Blue- tooth	tery	Global (G) GMP (P	P) Preload	Ann Date (mm/yy)
2465-62U	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	Intel 6205 ²⁸	WWAN upg	None	Finger	ВТ	6	G	Win8 Pro64	10/12
2465-65U	i5-3320M	4GBx1	14.0" HD	None	320G 7200	Intel 2200	WWAN upg	None	None	No	6	G	Win8 Pro64	10/12
2465-63U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	None	Finger	BT	6	G	Win8 Pro64	10/12
2465-64U	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	Intel 6205	WWAN upg	None	Finger	BT	6	G	Win8 Pro64	10/12

• A depot repair service 3-year limited warranty

Processor Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology BGB max7 / PC3-12800 16000MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology Valuel-channel capable, two 204-pin SO-DIMM sockets	
Lenovo Message Center Pli ThinkVantage Product Reco Access Connections	some
Optical SATA disk SATA disk Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™ removable, upgradable, Active Protection System™ removable, upgradable, Active Protection System™ semovable, upgradable, Active Protection System™ None Widescreen display Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD (160x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 @ 60Hz (DisplayPort via optional Mini DP cable); 1920x1200 @ 60Hz (single-link DVI-I via optional Mini DP cable); 20048x1536 @ 75Hz (VGA) Keyboard TrackPoint® TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None Dimensions³ Weight² Case material Battery - type Batt	
MSATA™ SSD None Widescreen display Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 @60Hz (DisplayPort via optional Mini DP cable); 1920x1200 @60Hz (single-link DVI-l via optional Mini DP cable); 2048x1536 @75Hz (VGA) Keyboard TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None Dimensions³ 14.0W" (WxDxH): 13.94" x 9.57" x 1.17-1.24"; 354mm x 243mm x 29.6-31.4mm 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lenvov Solution Center Password Manager 1hinkVantage System Updat Fingerprint Software (fingerp models) Mobile Intel HM76 Express Chipset None	
Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio 3come: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio 3come: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 @60Hz (DisplayPort via optional Mini DP cable); 1920x1200 @60Hz (Single-link DVI-l via optional Mini DP cable); 2048x1536 @75Hz (VGA) Keyboard TrackPoint® TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None Dimensions³ 14.0W" (WxxDxH): 13.94" x 9.57" x 1.17−1.24"; 354mm x 243mm x 29.6−31.4mm Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium lon 6-cell or 9-cell, HW Authentication Battery - tipe Battery - life¹¹⁰ Chipset ExpressCard Mobile Intel HM76 Express Chipset None Camera Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 00cr contrast ratio corel DVD MovieFactory® Le Edition (DVD±RW) Corel DVD MovieFactory® Le Corel Dvo	
Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-l via optional Mini DP cable); 2048x1536@75Hz (VGA)	ition
supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 2048x1536@75Hz (VGA) Keyboard TrackPoint® TrackPoint® TrackPoint® Touch pad ThinkLight™ Dimensions³ Weight² Case material Battery - type Battery - life® Mobile Intel HM76 Express Chipset ExpressCard September 2	
TrackPoint® TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass Touch pad ThinkLight™ None Dimensions³ Weight² Gase material Battery - type Battery - life¹⁰ G-cell (57Whr): up to 7.5 hr; G-cell (94Whr): up to 12.3 hr Chipset ExpressCard O'dw, G4-key, Think Validage Duttolf, splin-lessing, Hultimedia Th Keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None 14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Ethiou Do Gell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr Chipset ExpressCard Mobile Intel HM76 Express Chipset None	
Dimensions ³ 14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm Weight ² 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Eattery - tipe Battery - life ¹⁰ 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr Chipset ExpressCard Mobile Intel HM76 Express Chipset None All models Lenovo Solution Center Password Manager ThinkVantage System Updat Fingerprint Software (fingerp models) Lenovo Cloud Storage	
ExpressCard None models hm/6 Express Cnipset models models models models	
Smart Card read None Multicard Reader Ports Multicard Reader A-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) None by SugarSync Norton™ Internet Security (30 days of virus definitions)	int
PCIe Mini Card Two PCI Express Mini Card slots One USB 3.0, tillee USB 2.0 (one powered), VGA DB-13, Militi DisplayPort, ethernet (no-45) • Skype™ Skype™	
PCIe WLAN ⁴ Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Supports ThinkVantage® technology.	ologies
PCIe WWAN Wireless WAN upgradable Carrier None Modem None Bluetooth™ Some: Bluetooth 4.0 wireless 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR™ 5.0-compliant	
Ethernet Realtek® RTL8111F Gigabit Network Connection Intel AMT None International Warranty Service ¹	7
Audio support HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack during the warranty period¹² Power-on password, hard disk password, supervisor password, security keyhole	ort
Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip For compatible accessories, ple go to O-L430 sheet; For Lenovo service ²² upgrade of	
Limited warranty ¹² 3-years /1-yr battery - depot repair service / service upgrades ²² available please go to S-TA sheet	ριιστίδ,

ThinkPad® L430 2465 (Windows 8) - II

Type-model	Processor	Memory	Wide- screen display	Camera	Dis SAT GB ⁸ r	Α	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Card slot	Finger print reader	Blue-		Preload	Ann Date (mm/yy)		
	i5-3360M	4GBx1	14.0" HD+	720p	500G		Intel 6205 ²⁸	1 0		Finger		9	Win7 Pro64	02/13		
	i5-3360M	4GBx1	14.0" HD	720p	320G		Intel 6205	WWAN upg		Finger		6	Win7 Pro64	02/13		
	i5-3360M	4GBx1	14.0" HD+	720p	320G		Intel 6205	WWAN upg		Finger		9	Win7 Pro64	02/13		
	i5-3320M	4GBx1	14.0" HD	720p	320G		Intel 6205	WWAN upg		Finger		6	Win7 Pro64	02/13		
	i5-3320M	4GBx1	14.0" HD	720p	320G		Intel 6205	WWAN upg		None	No	6	Win7 Pro64	02/13		
2465-7QU 2465-7PU	i3-2348M	4GBx1 4GBx1	14.0" HD 14.0" HD	720p 720p	320G		Intel 6205 Intel 6205	WWAN upg WWAN upg		Finger Finger		6 9	Win7 Pro64 Win7 Pro64	02/13		
	i5-2346W	4GBx1	14.0" HD	720p	320G		Intel 6205	WWAN upg		Finger		9	Win7 Pro64	02/13		
	i5-3230M	4GBx1	14.0" HD	720p	320G		Intel 6205	WWAN upg		Finger		6	Win8 Pro64	02/13		
2465-7GU		4GBx1	14.0" HD	720p	320G		Intel 6205	WWAN upg		Finger		6	Win7 Pro64	02/13		
		-	-	- 1				- 1- 3		9 -						
Positioning Processor	Intel DDF Intel DDF Intel DDF Intel	© Core™ i 3 memory Core i5-3 3 memory Core i5-3 3 memory Core i5-3	y controller (3230M proc y controller (3320M proc y controller (3360M proc y controller (3360M proc	ocessor up to 133 essor (2 up to 160 essor (2 up to 160 essor (2	(2 core 33MHz), cores, 2 00MHz), cores, 2 00MHz), cores, 2	es, 2.30 , HT te 2.60GI , Intel 7 2.60GI , Intel 7 2.80GI	chnology Hz, 3MB cac Furbo Boost 2 Hz, 3MB cac Furbo Boost 2 Hz, 3MB cac	he), Intel HD G 1.0 (3.20GHz), He), Intel HD G 1.0 (3.30GHz), He), Intel HD G 1.0 (3.30GHz), He), Intel HD G 1.0 (3.50GHz), He)	raphics 4000, IT technology raphics 4000, IT technology raphics 4000,	0, - S	ome: ome: loade	Windo preins downg Windo Windo	rating systen ows® 7 Profess stalled through grade rights in ows 8 Pro 64-b ows 8 Pro 64-b lications ⁵ (on	oit oit		
Memory	8GB dual	max ⁷ / P0 -channel o	23-12800 16 capable, two	00MHz I 204-pin	DDR3, n SO-DIM	on-pai	rity, kets	/IHz DDR3 mem		Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recove Access Connections™						
Optical SATA disk	Som	e: Solid S e: Hard D		SSD) / S SATA 3.0	ATA 6.00 Gb/s, 2.	Gb/s, 2 5" wide	2.5" wide, 7m e, 7mm or 9.5	m high, remova 5mm high,	ble, upgradable	• T • L • A	 ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloade 					
mSATA™ SS	D None												duct key to ac			
Widescreen	Som	e: 14.0 "	(355mm) H [(1366x	768) col	lor, an	ti-glare, LED	backlight,		• 0	orel®_	WinD\	/D® (DVD±RW	<u>'</u>)		
display	Som	e: 14.0 "	ts, 16:9 aspe (355mm) HC ts, 16:9 aspe)+ (1600)	k900) co	olor, a	nti-glare, LEI	D backlight,		(1	DVD±I	RW)	ow™ Lenovo E ovieFactory® L			
Camera	HD7							acking, fixed foo	cus	6	dition	(DVD:	±RW)			
Graphics	supp supp <i>Max</i> 1920	oorts exter oorts dual imum exte 0x1200@6	independen ernal resoluti 60Hz (single	nonitor v t display; ion: 2560 -link DVI-	a VGA I 0x1600@ I via opt	DB-15 @60Hz tional N	(DisplayPor Mini DP cable	onitor via Mini E t via optional Mi e); 2048x1536@	ni DP cable);	• L • L • N	- Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloade purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) All models Lenovo Solution Center Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™					
Keyboard TrackPoint® Touch pad ThinkLight™	Tracl	kPoint® po Nav™, wie	inting device	, Interne	t Scroll I	Bar¹³, ı	t, multimedia magnifying gl ones, scrollir			• F						
Dimensions ³ Weight ² Case materia Battery - type Battery - life ¹	<i>6-ce</i> al Acry e Lithi	ll: from 5.1 Ionitrile-B um Ion 6-c	xH): 13.94" x 11 lb (2.32kg utadiene-Sty cell or 9-cell, : up to 7.5 h)); <i>9-ce</i> rene (AE HW Aut	ell: from BS) plas nenticat	5.48 lb tic ion	(2.49kg)	nm x 29.6–31.4r	nm	- A • L • F						
Chipset ExpressCard Smart Card I Multicard Re Ports	l One read Non- ader 4-in- One	slot (Expr e 1 reader (USB 3.0,	three USB 2	, Express SDHC, SI 2.0 (one _l	Card/5 ² DXC)	,	A DB-15, Mini	i DisplayPort, et	hernet (RJ-45)	• L						
PCIe Mini Ca PCIe WLAN ⁴ PCIe WWAN	11a/	b/g/n, PCI	ess Mini Car e Half Mini (upgradable	Card, Inte	el Centri	no® Ad	lvanced-N 62	05, 2x2			<u> </u>		Vantage® tech	nologies		
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio suppo	None Som Real None rt HD / volur	e e: e: Blueto tek® RTL8 e Audio, Rea ne up. dov	oth 4.0 wire 3111F Gigab altek ALC32 vn. mute butt	less oit Netwo 02 codec	, Dolby® naural di		ic. mic mute	v2 / stereo spe button, combo a I, security keyho	audio/mic iack	EPI ENI GR Rol Inte	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²					
Security chip Fingerprint re	Trus eader <i>Som</i>	ted Platfor e: Authe suppo	m Module, ¹ nTec fingerp rts the secu	TCG 1.2- rint read rity chip	complia er on pa	nt ılm res	t, swipe sens	or, LED indicato		For compatible accessories, pleas go to O-L430 sheet; For Lenovo service ²² upgrade option						
Limited warra	апцу" 3-уе	ars/ i-yr b	ацегу - дерс	n repair s	ervice /	servic	e upgrades ²²	avaliable		pie	ase go	เช 5-	TA sheet			

ThinkPad® L430 2465 (Optimus)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Card slot	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Ann Date (mm/yy)
2465-27U	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	Intel 6205 ²⁸	None	Express 54	Finger	ВТ	9	Pro 64	06/12

- A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Password Manager Preloaded applications ¹⁴ (only some listed)
mSATA™ SSD	None	Lenovo Message Center Plus ThinkVantage Product Recovery
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio	Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 ThinkVantage Power Manager Norton™ Internet Security 2012
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	(30 days of virus definitions) Adobe® Reader® Skype™ for Windows Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate Core® WinDVD® (DVD±RW)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	 Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.16 lb (2.34kg); 9-cell: from 5.52 lb (2.51kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 5.6 hr; 9-cell (94Whr): up to 9.3 hr	
Chipset ExpressCard Smart Card read Multicard Reader Ports	Mobile Intel HM76 Express Chipset One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security	None None None Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L430 sheet; For Lenovo service ²² upgrade options.
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® L430 2465 (Optimus) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Card slot	Finger print reader	Blue- tooth		Preload	Ann Date (mm/yy)
2465-7DU	i7-3520M	4GBx2	14.0" HD+	720p	180G SSD	Intel 62052	8 None	Express 54	Finger	ВТ	9	Win7 Pro64	02/13
2465-7CU	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	Intel 6205	None I	Express 54	Finger	BT	9	Win7 Pro64	02/13

• A depot repair service 3-year limited warranty

Memory 8G B max* / PC3-12800 1600MHz DDR3, non-partly dual-channel capable, two 204-pin SO-DIMM sockets	Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Windows® 7 Professional 64
Optical SATA disk SATA disk SATA disk SATA disk SATA disk Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm nigh, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5° wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System None Widescreen display Some: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio Ambiliant Poptimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, 10 memory auto-switch auto-switch auto-switch auto-switch auto-switch auto-s	Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	downgrade rights in Windows 8 Pro 64-bit
Midescreen Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA* Optimus 400 processor, and net of the processor of the pro		Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high,	listed) - Windows 7 models - Lenovo® Message Center Plus
Widescreen display Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 40:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 40:1 contrast ratio HD/20p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, and INVIDANXI'S 400MP CI Express 71.6; 1GB memory, supports external analog monitoria; VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2550x1600 @60Hz (DisplayPort via optional Mini DP cable); 1920x1200 @60Hz (single-link DVI-1 via optional Mini DP cable);	mSATA™ SSD		
Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, intel HD Graphics 4000 in processor, and NVIDIA® VSP* 5400M. PCI Express®* x16, 13B memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini Dp cable); 1920x1200@60Hz (single-link DVI-1 via optional Mini DP cable); 2048x1536@85Hz (VGA) Keyboard TrackPoint® pointing device, Internet Scroll Bar® magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None Dimensions³ 41.40W* (WxDxH): 13.94* x 9.57* x 1.17−1.24*; 354mm x 243mm x 29.6−31.4mm 6-cell: from 5.16 ib (2.34kg); 9-cell: from 5.52 ib (2.51kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium lon 6-cell or 9-cell, HW Authentication 6-cell (67Whr): up to 5.6 hr; 9-cell (94Whr): up to 9.3 hr Mobile Intel HM76 Express Card/34, ExpressCard/54) None Modem None None None None None Bluetooth 4.0 wireless Bluetooth 4.0 wireless Bluetooth Melke RTIL8111F Gigabit Network Connection None No		200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight,	 ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded;
Core Burn. Now™ Lenovo Edition (DVD±RW) NVIDIA* Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M. PCI Express* x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 2046x1536@85Hz (VGA)	Camera		
TrackPoint® TrackPoint® Jouch pad UltraNar™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None Dimensions³ 14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.16 ib (2.34kg); 9-cell: from 5.52 ib (2.51kg) Case material Acylonitrile-Butadiene-Styrene (ABS) plastic Lithium lon 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 5.6 ir, 9-cell (94Whr): up to 9.3 hr Chipset ExpressCard Smart Card read Multicard Reader Ports PCIE Mini Card PCIE WLAN⁴ PCIE WLAN⁴ Carrier None Carrier None Mone Carrier None Mone HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 volume up, down, mute buttons / Pow-ron password, hard disk password, supervisor password, security keyhole Fingerprint reader Althen To combo and/ornic jack pow-ron password, hard disk password, supervisor password, supervi		NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);	 Corel Burn.Now™ Lenovo Édition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models Lenovo Support
Dimensions 14.0W (WXDXH): 13.94° x 1.17-1.24°; 354mm x 243mm x 243mm x 29.6–31.4mm (DVD±RW) Weight² 6-cell: from 5.16 lb (2.34kg); 9-cell: from 5.52 lb (2.51kg) Case material Battery - type Battery - life¹⁰ 6-cell (57Wn); up to 5.6 hr; 9-cell (94Whr); up to 9.3 hr Chipset ExpressCard One slot (Express Card/34, Express Card/54) None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) PCle Mini Card PCle WLAN⁴ PCle WWN None Carrier None Modem None Bluetooth 4.0 wireless Ethernet Realtek ® RTL8111F Gigabit Network Connection Intel AMT Audio support Audio support Bluetooth 4.0 wireless Ethernet PD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Authen Tec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	TrackPoint® Touch pad	TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch	 Microsoft® Office 2013 preloaded; purchase product key to activate Cyberlink Power2Go (DVD±RW)
ExpressCard Smart Card read Multicard Reader Ports One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) PCIe Mini Card PCIe WiAN PCIe WiAN Carrier None Modem None Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth 4.0 wireless Ethernet Intel AMT None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Security Security chip Fingerprint reader Wone Carrier None HD Audion Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader None AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports definitions None AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports definitions None AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports definitions None AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports definitions None Advanced-N 6205, 2x2 Supports ThinkVantage® technologies Supports ThinkVantage® technologies Supports ThinkVantage® technologies Powerton None REENGY STAR® 5.0-compliant International Warranty Service¹¹² 24 hour x 7 day¹® foll-free support during the warranty period¹² For compatible accessories, please go to O-L430 sheet; For Lenovo service²² upgrade options,	Weight ² Case material Battery - type	6-cell: fròm 5.16 lb (2.34kg); 9-cell: from 5.52 lb (2.51kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication	(ĎVD±RW) - All models • Lenovo Solution Center • Password Manager
PCIe WLAN⁴ 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 PCIe WWAN None None None Modem None Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Fingerprint reader 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Supports ThinkVantage® technologies 90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹¹ 24 hour x 7 day¹¹³ toll-free support during the warranty period¹² For compatible accessories, please go to O-L430 sheet; For Lenovo service²² upgrade options,	ExpressCard Smart Card read Multicard Reader Ports	One slot (ExpressCard/34, ExpressCard/54) None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	models) • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security
PCIe WWAN None Carrier None Modem None Bluetooth 4.0 wireless Ethernet Realtek® RTL8111F Gigabit Network Connection Intel AMT None Audio support HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Trusted Platform Module, TCG 1.2-compliant Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip Security Supports the security chip Powatt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹¹ 24 hour x 7 day¹¹³ toll-free support during the warranty period¹² For compatible accessories, please go to O-L430 sheet; For Lenovo service²² upgrade options,			Supports ThinkVantage® technologies
Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip For compatible accessories, please go to O-L430 sheet; For Lenovo service ²² upgrade options,	PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	None None None Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack	90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support
To Lenovo service appliade options,	Security chip	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	go to O-L430 sheet;
ploade go to o in toriot	Limited warranty ¹²	• • • • • • • • • • • • • • • • • • • •	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L430 2466 (Onsite)

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	PCIe PC Mini Card WLAN	WWAN/		Smart Card Reader	Card slot	Finger print reader	Blue-	tery		Ann Date nm/yy)
><	2466-33U	i5-3360M	4GBx1	14.0" HD	720p	500G 7200	Intel 620528	³ upg	None	Smart	Exp 54	Finger	ВТ	6	W G P Pro 64 (06/12
	2466-32U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	upg	None	Smart	Exp 54	Finger	BT	6	W G P Pro 64 0	06/12
	2466-3AU	i7-3520M	4GBx1	14.0" HD+	720p	320G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	9	Pro 64 (06/12
*	2466-3BU	i5-3360M	4GBx1	14.0" HD+	720p	500G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	9	G P Pro 64 (06/12
	2466-3CU	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	6	G P Pro 64 (06/12
><	2466-3DU	i5-3360M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	6	G P Pro 64 (06/12
><	2466-3EU	i5-3360M	4GBx1	14.0" HD+	720p	320G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	9	G P Pro 64 (06/12
	2466-3FU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	upg	None	None	Exp 54	Finger	BT	6	G P Pro 64 (06/12
	2466-3GU	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	Intel 6205	Gobi	select	None	Exp 54	Finger	BT	9	Pro 64 (06/12
	2466-3HU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	Gobi	select	None	Exp 54	Finger	BT	6	Pro 64 (06/12
	2466-3JU	i5-3320M	4GBx1	14.0" HD	None	500G 7200	Intel 2200	upg	None	None	Exp 54	None	No	6	Pro 64 (06/12
	2466-3KU	i5-3320M	4GBx1	14.0" HD	None	320G 7200	Intel 2200	upg	None	None	Exp 54	None	No	6	Pro 64 (06/12

- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i5-3360M processor (2 cores, 2.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed) • Rescue and Recovery TM • Password Manager
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Preloaded applications ¹⁴ (only some listed)
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	 Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models)
mSATA™ SSD	None	ThinkVantage System Update
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio	 ThinkVantage Power Manager Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Camera	Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Skype [™] for Windows Windows Live TM For a natical section.
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-l via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	
Chipset ExpressCard Smart Card read Multicard Reader Ports	Mobile Intel HM76 Express Chipset One slot (ExpressCard/34, ExpressCard/54) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Some: Wireless WAN upgradable	
	Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCle Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS	Supports ThinkVantage® technologies
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	Some: User selectable, AT&T®, Verizon®, or Śprint®, contract required with service provider None Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L430 sheet;
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options please go to S-TA sheet

ThinkPad® L430 2466 (Onsite) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Card	Card slot	Finger print reader	Blue-	tery) Preload	Ann Date (mm/yy)
2466-62U	i7-3520M	4GBx1	14.0" HD+	- 720p	500G 7200	Intel 620528	WWAN upg	None	None	Finger	ВТ	6	GΡ	Win8 Pro64	10/12
2466-63U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6	GΡ	Win8 Pro64	10/12
2466-64U	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6	GΡ	Win8 Pro64	10/12
2466-5UU	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	Intel 2200	WWAN upg	None	None	None	No	6		Win7 Pro64	02/13
2466-5TU	i5-3320M	2GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	None	Exp 54	Finger	BT	6		Win7 Pro64	02/13
2466-5SU	i5-3320M	2GBx1	14.0" HD	720p	320G 7200	Intel 6205	WWAN upg	Smart	Exp 54	Finger	BT	6		Win7 Pro64	02/13

• Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications⁵ (only some
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	listed) - Windows 7 models
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	 Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap
mSATA™ SSD	None	Adobe® Reader®
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Graphics	Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Čorel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models Lenovo Support Lenovo Companion
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	 Lenovo QuickLaunch Microsoft[®] Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.11 lb (2.32kg); 9-cell: from 5.48 lb (2.49kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center
Chipset ExpressCard Smart Card read Multicard Reader Ports PCIe Mini Card	Mobile Intel HM76 Express Chipset Some: One slot (ExpressCard/34, ExpressCard/54) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) Two PCI Express Mini Card slots	 Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
PCIe WLAN⁴	Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier	Wireless WAN upgradable None	- 11
Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	None Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
	r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L430 sheet;
Limited warranty ¹²	² 3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L430 2466 (Optimus) - Onsite

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Card slot	Finger print reader	Blue- tooth	Bat- C tery cells	Global (GMP (P)		Ann Date (mm/yy)
2466-39U	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	Intel 620528	⁸ None E	Express 54	Finger	BT	9	No	Pro 64	06/12

• Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Password Manager Preloaded applications ¹⁴ (only some listed) Is Large Manage Center Plus
mSATA™ SSD	None	Lenovo Message Center PlusThinkVantage Product Recovery
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio	Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	ThinkVantage Power Manager
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	 Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	 Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.94" x 9.57" x 1.17–1.24"; 354mm x 243mm x 29.6–31.4mm 6-cell: from 5.16 lb (2.34kg); 9-cell: from 5.52 lb (2.51kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 5.6 hr; 9-cell (94Whr): up to 9.3 hr	, ,
Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 None	Supports ThinkVantage® technologies
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	None None Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L430 sheet;
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/ service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L430 Accessories

Memory 2GB PC3-12800 DDR3 SODIMM 4GB PC3-12800 DDR3 SODIMM	0A65722 ann 06/05/12 0A65723 ann 06/05/12		0A36302 a 0A36303 a 40Y7625 a	ann	06/05/12
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive		44 Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the syste		атт	03/20/03
USB 2.0 Portable 500GB Hard Disk USB 3.0 Secure 500GB Hard Drive	45K1690 ann 05/26/09 0A65619 ann 11/29/11	More information at www.lenovo.com/alldaycom	puting		
USB 3.0 Secure 750GB Hard Drive	0A65616 ann 11/29/11	ThinkPad 65W AC Adapter ⁴⁵	40Y7696 a	ann	01/05/06
USB 3.0 Secure 1TB Hard Drive Lenovo Slim USB Portable DVD Burner	0A65621 ann 08/28/12 0A33988 ann 06/14/11	⁴⁵ Only compatible with the integrated graphics m ThinkPad 90W AC Adapter	10deis. 40Y7659 <i>a</i>	ann	09/20/05
			41R4493 a		
ThinkPad Expansion Lenovo® Essential Notebook Stand	45J9292 ann 05/12/09	More info at www.lenovo.com/support/powerad	•		
ThinkPad Port Replicator Series 3 with USB 3.0 ThinkPad Mini Dock Series 3 - 90W	433615W ann 06/05/12 433710U ann 06/23/09	Charging tips for 90W Ultraslim AC/DC Combo Ac	<i>dapter 41R4</i> 41R4481 <i>a</i>	4493	12/19/07
ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W	433715U ann 06/05/12		41R4490 a		
TP Mini Dock Plus Series 3 w/ USB 3.0 - 90W TP Mini Dock Plus Series 3 w/ USB 3.0 - 170W	433815U ann 06/05/12 433835U ann 06/05/12	More information at www.lenovopowertips.com			
	4000000 ann 00/00/12	Carrying Cases			
Keyboard TrackPoint Cap Collection	73P2698 ann 12/16/03	Up to 14" widescreen models:	E7\/4004		00/16/10
Lilland a Program Division Additional and Lilland and	0A34032 ann 04/05/11 33L3225 ann 05/01/00	ThinkPad 14W Case Sleeve Up to 15.6" widescreen models:	57Y4294 a	ann	03/16/10
Ultrasim Plus Wireless Keyboard and Mouse ³² USB Numeric Keypad Preferred Pro USB Keyboard Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard Lenovo USB Smartcard Keyboard	73P5220 ann 06/21/05	Lénovo Messenger Max	41U5253 a		
Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint	73P2620 ann 03/23/04 55Y9003 ann 08/18/09	Lenovo Performance BackPack ThinkPad Business Topload Case	41U5254 a 43R2476 a		
Lenovo® USB Fingerprint Keyboard	73P4730 ann 02/22/05	ThinkPad Business Backpack	43R2482 a	ann	05/13/08
Lenovo USB Smartcard Keyboard ⁵² Wireless via 2.4GHz technology using a micro-	51J0155 <i>ann 03/24/09</i> size USB receiver.	ThinkPad Deluxe Expander Case ThinkPad Executive Leather Case	43R2478 <i>a</i> 43R2480 <i>a</i>		
		Lenovo Sport Backpack - Red	0A33896 a	ann	02/28/12
Mouse Lenovo Optical Mouse (USB)	06P4069 ann 05/21/03		0A33897 a		
Lenovo Laser Mouse (USB) ThinkPad USB Laser Mouse	41U3074 ann 01/23/07 57Y4635 ann 12/15/09	More information at www.lenovo.com/support/c	ases		
Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical) ThinkPad Blustooth Laser Mouse	31P7405 ann 08/27/02	Monitors			
ThinkPad Travel Mouse (USB, Optical) ThinkPad Bluetooth Laser Mouse	31P7410 ann 06/04/02 0A36407 ann 06/26/12	ThinkVision® L1711p 17" (VGA, DVI-D)	5047HB2 a		
Lenovo Wireless Laser Mouse ⁵²	0A36188 ann 12/20/11	ThinkVision L1900p 19" (VGA, DVI-D) ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)69	4431HE1 <i>a</i>		
Multimedia		ThinkVision L2250p Wide 22" (VGA, DVI-D)	2572HB6 a	ann	10/20/09
ThinkPad In-Ear Headphones with microphone	57Y4488 ann 01/07/10	ThinkVision L2251x Wide 22" (VGA, DP) ⁶⁹ ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹	2578HB6 a 2572MB6 a	ann	09/13/11
Modem		ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) 69 DisplayPort cable is not included.	4420MB2 a	ann	09/13/11
USB 2.0 Lenovo Modem	43R1814 ann 02/26/08	ThinkVision LT1421 Wide 14" Mobile Monitor			
Security	0.4.04.700	with Protective Screen Cover (USB 2.0) ThinkVision LT1421 Wide 14" Mobile Monitor	1452DS6 a	ann	08/16/11
3M 14.0W Privacy Filter from Lenovo Kensington® MicroSaver® Cable Lock	0A61769 ann 04/05/11 73P2582 ann 12/29/03		1452DB6 a	ann	08/16/11
Kensington Twin Head Cable Lock Lenovo Security Cable Lock	45K1620 ann 09/30/08 57Y4303 ann 08/24/10	More information at www.lenovo.com/support/m	onitors		
USB Gemplus GemPC Smart Card Reader	41N3040 ann 02/21/06	Monitor Accessories ⁴⁶			
ExpressCard Gemplus Smart Card Reader ⁵⁷ ⁵⁷ Only compatible with the models having 54mm	41N3043 <i>ann 06/27/06</i> Express card slot	Lenovo USB 3.0 to DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable	0B47072 a 0A36536 a		
Only companies with the modele having outline	Express our dist.	Mini-DisplayPort to Single-link DVI Monitor Cable	0B47090 á	ann	06/26/12
		Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar	0B47091 a		
		Kensington MicroSaver Cable Lock Kensington Twin Head Cable Lock	73P2582 a	ann	12/29/03
		Lenovo Security Cable Lock	45K1620 <i>a</i> 57Y4303 <i>a</i>		
		Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision	55Y9258		09/22/09
		More information at www.lenovo.com/support/m			ries
		For more information on accessories:			
		www.lenovo.com/accessories Purchase Lenovo accessories			
		www.lenovo.com/support/accessories Product specifications on Lenovo Support			
		www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessor	y brochure:	s	
		www.lenovoquickpick.com An Options Compatibility Configurator for Lenovo	systems		

ThinkPad_®



Lenovo® ThinkPad L530



Lenovo ThinkPad L530



Lenovo ThinkPad L530



Lenovo ThinkPad L530



Lenovo ThinkPad L530



Lenovo Sport Backpack - Blue 0B47298 Lenovo Sport Backpack - Red 0A33896 Lenovo Sport Backpack - Grey 0B47301

ThinkPad® L530 2481 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Card slot	Finger print reader	Blue- tooth	Bat- tery cells	Preload (Ann Date (mm/yy)
2481-26U	i3-2370M	4GBx1	15.6" HD	720p	320G 7200	Intel 2200	WWAN upg	None	None	None	6	Pro 64	06/12
2481-34U	i5-2520M	4GBx1	15.6" HD	720p	500G 7200	Intel 2200	WWAN upg	None	None	None	6	Pro 64	07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i3-2370M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	ome listed) • Rescue and Recovery™ • Password Manager
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Preloaded applications¹⁴ (only some listed) • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™
mSATA™ SSD	None	Fingerprint Software (fingerprint)
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	models) • ThinkVantage System Update • ThinkVantage Power Manager • Norton™ Internet Security 2012
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	(30 days of virus definitions)
Graphics	Intel HD Graphics 3000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Adobe® Reader® Skype™ for Windows Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate Core® WinDVD® (DVD±RW)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.72" x 1.25–1.31"; 380mm x 247mm x 31.7–33.4mm 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.05 lb (2.75kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	
	Mobile Intel HM76 Express Chipset None None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card	Two PCI Express Mini Card slots	Supports ThinkVantage® technologies
PCIe WLAN ⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Wireless WAN upgradable None None None Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	For compatible accessories, please go to O-L530 sheet;
	1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L530 2481 (TopSeller) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Smart Card Reader	Card slot	Finger print reader				Ann Date (mm/yy)
2481-33U	i5-2520M	4GBx1	15.6" HD	720p	500G 7200	Intel 2200	WWAN upg	None	None	None	No	6	Win8 Pro64	10/12
2481-4RU	i3-2348M	4GBx1	15.6" HD+	720p	500G 7200	Intel 6205 ²⁸	WWAN upg	None	Express 54	Finger	BT	9	Win7 Pro64	02/13
2481-4QU	i3-2348M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	None	Express 54	Finger	BT	6	Win7 Pro64	02/13
2481-55U	i5-3230M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	Smart	Express 54	Finger	ВТ	6	Win7 Pro64	05/13

 \bullet Small and medium business (SMB) model(s), part of the US TopSeller $^{\text{\tiny{TM}}}$ Program

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	listed) - Windows 7 models - Lenovo® Message Center Plus
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap
mSATA™ SSD	None	Microsoft® Office 2010 preloaded;
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo
Graphics	Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Edition (DVD±RW) - Windows 8 models - Lenovo Support - Lenovo Companion - Lenovo QuickLaunch
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Microsoft® Office 2013 preloaded; purchase product key to activate Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.72" x 1.25–1.31"; 380mm x 247mm x 31.7–33.4mm 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.05 lb (2.75kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	 All models Lenovo Solution Center Password Manager Fingerprint Software (fingerprint
Chipset ExpressCard Smart Card read Multicard Reader Ports	Mobile Intel HM76 Express Chipset Some: One slot (ExpressCard/34, ExpressCard/54) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	models) • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security (30 days of virus definitions)
PCIe Mini Card PCIe WLAN⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem	Wireless WAN upgradable None None	65-watt AC adapter EPEAT™ Gold rating
Bluetooth™ Ethernet	Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection	ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Intel AMT Audio support	None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security Security chip Fingerprint reade	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L530 sheet;
Limited warranty ¹²	² 1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L530 2485 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Card slot	Finger print reader	Blue- tooth	Bat- tery cells	Ann Date Preload (mm/yy)
2485-22U	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205 ²⁸	WWAN upg	None	Finger	BT	6	Pro 64 06/12
2485-23U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	None	Finger	BT	6	Pro 64 06/12
2485-24U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	None	None	None	6	Pro 64 06/12
≈ 2485-25U	i5-3210M	4GBx1	15.6" HD	720p	320G 7200	Intel 2200	WWAN upg	None	None	None	6	Pro 64 06/12
2485-26U	i3-2370M	4GBx1	15.6" HD	720p	500G 7200	Intel 2200	WWAN upg	None	Finger	BT	6	Pro 64 06/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i3-2370M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Password Manager Preloaded applications ¹⁴ (only some listed)
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint
mSATA™ SSD	None	models) ThinkVantage System Update
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	ThinkVantage Power Manager Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Skype™ for Windows Windows Skype™ For anticle
Graphics	Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.72" x 1.25–1.31"; 380mm x 247mm x 31.7–33.4mm 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.05 lb (2.75kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	
Chipset ExpressCard Smart Card read Multicard Reader Ports	Mobile Intel HM76 Express Chipset None None 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem	Wireless WAN upgradable None None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Bluetooth™ Ethernet Intel AMT Audio support	Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 /	GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷
• • •	volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	For compatible accessories, please go to O-L530 sheet;
Limited warranty ¹²	supports the security chip 2 3-years/1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L530 2478

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Po Mini Card WLAN	Cle Mini C WWAN/ mSATA	/	Smart Card Reader	Card slot	Finger print reader	Blue-	terv	Workhor (W) Global (rse Pre- G) load	Ann Date (mm/yy)		
	2478-23U	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	Intel 6205	²⁸ upg	None	None	None	Finger	ВТ	9		Pro 64	06/12		
		i7-3520M		15.6" HD+	720p	320G 7200		upg	None	None	None	Finger		9		Pro 64			
> <		i5-3360M		15.6" HD+	720p		Intel 6205	upg	None	None	None	Finger		9	G	Pro 64			
		i5-3320M i5-3320M		15.6" HD 15.6" HD	720p 720p		Intel 6205 Intel 6205	upg upg	None None	None None	None None	Finger None	No	6	G G	Pro 64	06/12		
		i5-3320M		15.6" HD	720p		Intel 2200	upg	None	None	None	Finger		6	G	Pro 64			
		i5-3320M		15.6" HD	None		Intel 2200	upg	None	None	None	None	BT	6	G	Pro 64			
><		i5-3360M		15.6" HD+	720p		Intel 6205	upg	None	None	None	Finger		9	G	Pro 64			
		i5-3320M i5-3320M		15.6" HD 15.6" HD	720p 720p		Intel 6205 Intel 6205	upg upg	None None	None None	None None	Finger None		6	G G	Pro 64 Pro 64			
><		i5-3360M		15.6" HD+	720p		Intel 6205	Gobi	select	None	None	Finger		9	u	Pro 64			
		i5-3320M	4GBx1	15.6" HD	720p		Intel 6205	Gobi	select	None	None	Finger		6			06/12		
		i5-3320M		15.6" HD			Intel 2200	upg	None	None	None	None	No	6		Pro 64			
_		i5-3320M i5-3360M		15.6" HD 15.6" HD	None 720p		Intel 2200 Intel 6205	upg upg	None None	None	None Exp 54	None Finger	No	6 9	G	Pro 64 Pro 64	06/12		
-		i5-3320M		15.6" HD	720p		Intel 6205	upg	None	-	Exp 54			6	G		06/12		
		i5-3320M		15.6" HD	720p		Intel 6205	upg	None		Exp 54			6	WG	Pro 64			
><	2478-33U	i5-3360M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	upg	None	Smart	Exp 54	Finger	BT	9	WG	Pro 64	06/12		
	Memory Optical SATA disk mSATA™ SS Widescreen display Camera	DD Inte DD Int	R3 memo el Core i5- R3 memo el Core i7- R3 memo 3 max ⁷ / Fil-channel stem auto D burner, me: Solid me: Hard remo ne: 15.6" 220 r	i5-3320M procontroller -3360M procory controller -3520M procord capable, two procord controller -3520M procord controller	(up to 1) cessor ((up to 1) cessor ((up to 1) 600MHz 2 204-pin cocks dov 1, fixed, (SSD) / SATA 3, dable, A D (1366 ect ratio D+ (160 ect ratio	600MHz), Iri 2 cores, 2.8 600MHz), Iri 2 cores, 2.8 600MHz), Iri 2 DDR3, norn N SO-DIMM Norn for procent removate SATA 6.0Gts 0Gb/s, 2.5" ctive Protect x768) color 0, 500:1 con 0, 500:1 con	tel Turbo Bo BOGHz, 3MB Itel Turbo Bo OGHz, 4MB Itel Turbo Bo I-parity, sockets ssors with 13 Ide, tray-in Ide, tray-in Ide, yes, 2.5" wide wide, 7mm c ion System In anti-glare, I rarst ratio Iter, anti-glare, I rast ratio	ost 2.0 (S cache), ost 2.0 (S cache), ost 2.0 (S 333MHz , 7mm hi or 9.5mm	3.30GHz Intel HI 3.50GHz Intel HI 3.60GHz DDR3 n Igh, rem high,	c), HT te O Graph c), HT te O Graph c), HT te memory of ovable, u	chnology ics 4000 chnology chnology controller upgradab	OO, Ge Pro	enuine ofession ady to me list Rescuipe asswipe loade ed) Lenovo Think V Access Finger models Think V Norton 30 day Adobe Skype Skype	Wind onal 6 o inst ed) o ean o dap o Mes arta arta arta arta arta arta arta art	lows® 7 id all appl I Recove fanager plicatio ssage Ce ge Produ inections Software ge Syste ge Powe ernet Se virus de ader® Window	enter Pluct Reco STM e (fingerum e (fingerum er Manage ecurity 20 finitions)	14 (only y some is very print te er 012		
	Graphics Keyboard TrackPoint®	sup sup <i>Ma.</i> 192 6-ro Trac	ports externorts dual control d	I independer ternal resolu 60Hz (single r, ThinkVanta ointing devic	monitor at display tion: 25 e-link DV ge butto e, Interr	ocessor, iitor via VGA DB-15 and digital monitor via Mini DisplayPort; • Windows Live™ Essentials • Microsoft® Office 2010 preloaded;													
	ThinkLight™ Dimensions Weight² Case materi Battery - typ	uch pad hinkLight™ UltraNav™, wide touchpad below keyboard, Tap Zones, scrölling, multi-touch None mensions³ 15.6W" (WxDxH): 14.96" x 9.72" x 1.25–1.31"; 380mm x 247mm x 31.7–33.4mm 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.05 lb (2.75kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic																	
	Chipset ExpressCard Smart Card Multicard Re Ports PCIe Mini C PCIe WLAN	Some: One slot (ExpressCard/34, ExpressCard/54) Some: Smart Card reader Multicard Reader A-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) Cle Mini Card PCIe WLAN ⁴ Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2)								
	PCIe WWAN	Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCle Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS									65	Supports ThinkVantage® technologies							
	Carrier Modem Bluetooth™ Ethernet Intel AMT Audio suppo	Nor Sor Rea Nor ort HD volu Pov	ne: User ne: Bluet altek® RTL ne Audio, Re ime up, do ver-on pas	selectable, A ooth 4.0 wire .8111F Giga ealtek ALC32 own, mute but ssword, hard	AT&T®, Veless bit Netw 202 code ttons / m disk pa	verizon®, or start Connection Connection Connection Conduction Con	Sprint®, contribition dvanced Augal mic, mic n	dio™ v2 / nute butto	stereo s	speakers bo audio	s, 1.5W x	EP EN GF Ro Into 24	during the warranty period ¹²						
	Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip									go	For compatible accessories, please go to O-L530 sheet; For Lenovo service ²² upgrade options								
	Limited warranty ¹² 3-years /1-yr battery - depot repair service / service upgrades ²² available											please go to S-TA sheet							

ThinkPad® L530 2478 (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Card	Card slot		Blue- 1		(G)	Ann Date (mm/yy)
2478-62U	i7-3520M	4GBx1	15.6" HD+		500G 7200	Intel 6205 ²⁸			None			6	G	Win8 Pro64	
							1 0	None		Finger		_			
2478-4NU	i5-3320M	4GBx1	15.6" HD	None	320G 7200	Intel 2200	WWAN upg	None	None	None	No	6	G	Win8 Pro64	10/12
2478-63U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6	G	Win8 Pro64	10/12
2478-64U	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6	G	Win8 Pro64	10/12
2478-5RU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6		Win7 Pro64	02/13
2478-5QU	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6		Win7 Pro64	02/13
2478-5PU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	WWAN upg	None	None	None	No	6		Win7 Pro64	02/13
2478-5NU	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6		Win7 Pro64	02/13
2478-5MU	i5-3320M	4GBx1	15.6" HD	None	320G 7200	Intel 2200	WWAN upg	None	None	None	No	6		Win7 Pro64	02/13
2478-5LU	i5-3230M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	Smart	Exp 54	Finger	BT	6		Win7 Pro64	02/13
2478-5KU	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	Smart	Exp 54	Finger	BT	6		Win7 Pro64	02/13
2478-5SU	i5-3230M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	None	Exp 54	Finger	BT	6		Win7 Pro64	02/13

• A depot repair service 3-year limited warranty

		I
Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	listed) - Windows 7 models
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap
mSATA™ SSD	None	Adobe® Reader®
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models Lenovo Support Lenovo Companion
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.72" x 1.25–1.31"; 380mm x 247mm x 31.7–33.4mm 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.05 lb (2.75kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic lithium lon 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center
Chipset ExpressCard Smart Card read Multicard Reader Ports PCIe Mini Card	Mobile Intel HM76 Express Chipset Some: One slot (ExpressCard/34, ExpressCard/54) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) Two PCI Express Mini Card slots	 Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
PCIe WLAN⁴	Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem	Wireless WAN upgradable None None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Bluetooth™ Ethernet Intel AMT	Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio Booker Al C2202 codes Delby® Advanced Audio Wy2 / ctores encoders 1 FW x 2 /	GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷
Audio support Security	HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant **Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L530 sheet;
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L530 2479 (Onsite)

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe PC Mini Card WLAN	WWAN		Smart Card Reader	Card slot	Finger print reader	Blue-	tery	Workhors (W) Global (G	Pre-	Ann Date (mm/yy)
	2479-32U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 620528	upg	None	Smart	Exp 54	Finger	BT	6	WGP	Pro 64	06/12
><	2479-33U	i5-3360M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	upg	None	Smart	Exp 54	Finger	BT	9	WGP	Pro 64	06/12
	2479-39U	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	Intel 6205	upg	None	None	None	Finger	BT	9		Pro 64	06/12
	2479-3AU	i7-3520M	4GBx1	15.6" HD+	720p	320G 7200	Intel 6205	upg	None	None	None	Finger	BT	9		Pro 64	06/12
*	2479-3BU	i5-3360M	4GBx1	15.6" HD+	720p	500G 7200	Intel 6205	upg	None	None	None	Finger	BT	9	GΡ	Pro 64	06/12
	2479-3CU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	upg	None	None	None	Finger	BT	6	GΡ	Pro 64	06/12
><	2479-3DU	i5-3360M	4GBx1	15.6" HD+	720p	320G 7200	Intel 6205	upg	None	None	None	Finger	BT	9	GΡ	Pro 64	06/12
	2479-3EU	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	upg	None	None	None	Finger	BT	6	GΡ	Pro 64	06/12
><	2479-3GU	i5-3360M	4GBx1	15.6" HD+	720p	320G 7200	Intel 6205	Gobi	select	None	None	Finger	BT	9		Pro 64	06/12
	2479-53U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	Gobi	select	None	None	Finger	BT	6		Pro 64	06/12
	2479-3MU	i5-3320M	4GBx1	15.6" HD	None	500G 7200	Intel 2200	upg	None	None	None	None	No	6		Pro 64	06/12
	2479-3PU	i5-3320M	4GBx1	15.6" HD	None	320G 7200	Intel 2200	upg	None	None	None	None	No	6		Pro 64	06/12
><	2479-44U	i5-3360M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	upg	None	Smart	Exp 54	Finger	BT	9		Pro 64	06/12
	2479-45U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	upg	None	Smart	Exp 54	Finger	BT	6		Pro 64	06/12

- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i5-3360M processor (2 cores, 2.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) ■ Rescue and Recovery™ ■ Password Manager
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Preloaded applications ¹⁴ (only some listed)
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	 Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models)
mSATA™ SSD	None	ThinkVantage System Update
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	 ThinkVantage Power Manager Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Camera	Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Skype™ for Windows Windows Live™ Essentials
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.72" x 1.25–1.31"; 380mm x 247mm x 31.7–33.4mm 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.05 lb (2.75kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	
Chipset ExpressCard Smart Card read Multicard Reader Ports	Mobile Intel HM76 Express Chipset Some: One slot (ExpressCard/34, ExpressCard/54) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	
PCIe WWAN	Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCle Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS	Supports ThinkVantage® technologies
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider None Some: Bluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip.	during the warranty period ¹² For compatible accessories, please
Limited warranty ¹²	supports the security chip 2 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/service upgrades ²² available	go to O-L530 sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L530 2479 (Onsite) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Card	Card slot		Blue-	tery	Global (G) GMP (P)		Ann Date (mm/yy)
2479-62U	i7-3520M	4GBx1	15.6" HD+	- 720p	500G 7200	Intel 620528	WWAN upg	None	None	Finger	ВТ	6	GΡ	Win8 Pro64	10/12
2479-63U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6	GΡ	Win8 Pro64	10/12
2479-64U	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6	GΡ	Win8 Pro64	10/12
2479-5LU	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	Smart	Exp 54	Finger	BT	6		Win7 Pro64	1 02/13
2479-5KU	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	Intel 6205	WWAN upg	None	None	Finger	BT	6		Win7 Pro64	02/13

• Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

B ::: :		B 1 1 1
Positioning Processor	Mainstream business performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™
mSATA™ SSD	None	 ThinkVantage Power Manager
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Čorel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models Lenovo Support Lenovo Companion
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch None	Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.72" x 1.25–1.31"; 380mm x 247mm x 31.7–33.4mm 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.05 lb (2.75kg) Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell, HW Authentication 6-cell (57Whr): up to 7.5 hr; 9-cell (94Whr): up to 12.3 hr	Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center
Chipset ExpressCard Smart Card read	Mobile Intel HM76 Express Chipset Some: One slot (ExpressCard/34, ExpressCard/54) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, three USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) Two PCI Express Mini Card slots	 Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
PCIe WLAN ⁴ PCIe WWAN	11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable	Supports ThinkVantage® technologies
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	None None Sluetooth 4.0 wireless Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / volume up, down, mute buttons / monaural digital mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-L530 sheet;
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® L530 Accessories

Memory 2GB PC3-12800 DDR3 SODIMM 4GB PC3-12800 DDR3 SODIMM	0A65722 ann 06/05/12 0A65723 ann 06/05/12	Batteries ThinkPad Battery 70+ (6-cell) OA36302 ann 06/ ThinkPad Battery 70++ (9-cell) OA36303 ann 06/ ThinkPad External Battery Charger44 40Y7625 ann 09/	/05/12
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive USB 2.0 Portable 500GB Hard Disk	45K1690 ann 05/26/09	44 Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the system.	20/00
USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive USB 3.0 Secure 1TB Hard Drive Lenovo Slim USB Portable DVD Burner	0A65619 ann 11/29/11 0A65616 ann 11/29/11 0A65621 ann 08/28/12	More information at www.lenovo.com/alldaycomputing ThinkPad 65W AC Adapter ⁴⁵ 40Y7696 ann 01/ 45 Only compatible with the integrated graphics models.	
ThinkPad Expansion		ThinkPad 90W AC Adapter 40Y7659 ann 09/ 90W Ultraslim AC/DC Combo Adapter 41R4493 ann 09/	
Lenovo® Essential Notebook Stand ThinkPad Port Replicator Series 3 with USB 3.0 ThinkPad Mini Dock Series 3 - 90W ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W TP Mini Dock Plus Series 3 w/ USB 3.0 - 90W TP Mini Dock Plus Series 3 w/ USB 3.0 - 170W	45J9292 ann 05/12/09 433615W ann 06/05/12 433710U ann 06/23/09 433715U ann 06/05/12 433815U ann 06/05/12 433835U ann 06/05/12	More info at www.lenovo.com/support/poweradapters Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493 •iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/ •Generic Micro USB charge tip (L18) 41R4490 ann 01/ More information at www.lenovopowertips.com	
Keyboard TrackPoint Cap Collection Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad Preferred Pro USB Keyboard Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard Lenovo USB Smartcard Keyboard S2 Wireless via 2.4GHz technology using a micro	73P2698 ann 12/16/03 0A34032 ann 04/05/11 33L3225 ann 05/01/00 73P5220 ann 06/21/05 73P2620 ann 03/23/04 55Y9003 ann 08/18/09 73P4730 ann 02/22/05 51J0155 ann 03/24/09 -size USB receiver.	Carrying Cases Up to 15.6" widescreen models: Lenovo Messenger Max Lenovo Performance BackPack ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case ThinkPad Executive Leather Case Lenovo Sport Backpack - Red Lenovo Sport Messenger - Red Lenov	/01/07 /13/08 /13/08 /13/08 /13/08 /28/12 /28/12 /28/12
Mouse Lenovo Optical Mouse (USB) Lenovo Laser Mouse (USB) ThinkPad USB Laser Mouse Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical) ThinkPad Bluetooth Laser Mouse Lenovo Wireless Laser Mouse	06P4069 ann 05/21/03 41U3074 ann 01/23/07 57Y4635 ann 12/15/09 31P7405 ann 08/27/02 31P7410 ann 06/04/02 0A36407 ann 06/26/12 0A36188 ann 12/20/11	Lenovo Sport Backpack - Blue 0B47298 ann 08/ Lenovo Sport Slimcase - Blue 0B47300 ann 08/ Lenovo Sport Messenger - Blue 0B47299 ann 08/ Lenovo Sport Backpack - Grey 0B47301 ann 08/ Lenovo Sport Slimcase - Grey 0B47303 ann 08/ Lenovo Sport Messenger - Grey 0B47302 ann 08/ More information at www.lenovo.com/support/cases	/28/12 /28/12 /28/12 /28/12
Multimedia ThinkPad In-Ear Headphones with microphone	57Y4488 ann 01/07/10	Monitors	/11/08
Modem USB 2.0 Lenovo Modem	43R1814 ann 02/26/08	ThinkVision L2250p Wide 22" (VGA, DVI-D) 2572HB6 ann 10/ ThinkVision L2251x Wide 22" (VGA, DP) ⁶⁹ 2578HB6 ann 10/ ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) ⁶⁹ 2572MB6 ann 09/	/20/09 /20/09
Security 3M 15.6W Privacy Filter from Lenovo Kensington® MicroSaver® Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock USB Gemplus GemPC Smart Card Reader ExpressCard Gemplus Smart Card Readers7 57 Only compatible with the models having 54mm	0A61771 ann 04/05/11 73P2582 ann 12/29/03 45K1620 ann 09/30/08 57Y4303 ann 08/24/10 41N3040 ann 02/21/06 41N3043 ann 06/27/06	ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) ⁶⁹ 4420MB2 ann 09/ 69 DisplayPort cable is not included. ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0) 1452DS6 ann 08/ ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Case (USB 2.0) 1452DB6 ann 08/ More information at www.lenovo.com/support/monitors	/13/11
C, compande man the model having offilm		Monitor Accessories ⁴⁶ Lenovo USB 3.0 to DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable OB47090 ann 06/ Mini-DisplayPort to DisplayPort Monitor Cable UEnovo USB Soundbar Kensington MicroSaver Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision monitors.	/17/11 /26/12 /24/12 /01/12 /29/03 /30/08 /24/10 /22/09
		More information at www.lenovo.com/support/monitoraccessories For more information on accessories:	s
		www.lenovo.com/accessories Purchase Lenovo accessories	
		www.lenovo.com/support/accessories Product specifications on Lenovo Support www.lenovo.com/accessoriesquide	
		Option Compatibility Matrix (OČM) and accessory brochures www.lenovoquickpick.com	
		An Options Compatibility Configurator for Lenovo systems	









Lenovo ThinkPad T430



Lenovo ThinkPad T430



Lenovo ThinkPad T430



Lenovo ThinkPad T430



Lenovo ThinkPad T430 with ThinkPad Port Replicator Series 3 with USB 3.0 433615W

ThinkPad® T430 2342 (TopSeller)

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Finger print reader	Blue- tooth		Intel AMT	Intel vPro	Preload (Ann Date (mm/yy)
	2342-38U	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205 ²⁸	WWAN upg	None	No	6	iAMT	vPro	Pro 64	06/12
	2342-37U	i5-3320M	4GBx2	14.0" HD	720p	320G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Pro 64	06/12
	2342-36U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Pro 64	06/12
><	2342-35U	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Pro 64	06/12
><	2342-34U	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Pro 64	06/12
><	2342-33U	i5-3210M	4GBx1	14.0" HD+	720p	320G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Pro 64	06/12
><	2342-32U	i5-3210M	4GBx1	14.0" HD	720p	320G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Pro 64	06/12
	2342-4AU	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Pro 64	07/12
	2342-6CU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64	09/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Processor Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Memory 16GB max² / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller Optical Ultrabay Optical Optica	-0311101111119	Promiero performance: two coindles	Dual and ad a manuation of a constant 20
DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core is-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology 16GB max² / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay SATA disk Some: Sold State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, bottom access SATA disk Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Widescreen display Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external external resolution: 2560x1600 60Hz (DisplayPort via optional Mini DP cable); 1920x1200 60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536 675Hz (VGA) Keyboard FackPoint* TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch		DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Professional 64
Memory 16GB max/ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller		DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000,	 Rescue and Recovery™
Optical Ultrabay Shart on the provided Polymer, 12.7mm Ultrabay Enhanced, removable Ultrabay Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, bottom access Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Widescreen display Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 2048x1536@75Hz (VGA) Keyboard TrackPoint® District TrackPoint® TrackPoint® TrackPoint® District TrackPoint® TrackPoint® TrackPoint® District TrackPoint® TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Lenovo Cloud Storage Trink ThinkVantage System Update ThinkVantage Product Recovery Access Connections™ Fininke TrackPoint® Tr	Vlemory	dual-channel capable, two 204-pin SO-DIMM sockets	Preloaded applications ¹⁴ (only some listed)
Widescreen display Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA) Keyboard TrackPoint® TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch **ThinkVantage System Opdate **ThinkVantage Power Manager **Lenovo Cloud Storage by SugarSync **Lenovo SimpleTap **Norton™ Internet Security 2012 (30 days of virus definitions) **Adobe® Reader® **Skype™ for Windows **Evernote® **Intel Small Business Advantage **RapidBoot HDD Accelerator* **Symantec™ VIP **Windows Live™ Essentials* **Windows Live™ Essentials* **Microsoft® Office 2010 preloade*	Uİtrabay SATA disk	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access <i>Some</i> : Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint)
Camera 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 @60Hz (DisplayPort via optional Mini DP cable); 1920x1200 @60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536 @75Hz (VGA) Keyboard TrackPoint® TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass Touchpad UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Intel Small Business Advantage • RapidBoot HDD Accelerator • Symantec™ VIP • Windows Live™ Essentials • Microsoft® Office 2010 preloade	Widescreen	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio	ThinkVantage Power ManagerLenovo Cloud Storage
supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-l via optional Mini DP cable); 2048x1536@75Hz (VGA) Keyboard TrackPoint® TrackPoint® TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch • Adobe® Reader® • Skype™ for Windows • Evernote® • Intel Small Business Advantage • RapidBoot HDD Accelerator • Symantec™ VIP • Windows Live™ Essentials • Microsoft® Office 2010 preloade		250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Lenovo SimpleTap Norton™ Internet Security 2012
Keyboard FrackPoint® TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass Touchpad UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch G-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight • Symantec™ VIP • Windows Live™ Essentials • Microsoft® Office 2010 preloade	Graphics	supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);	Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage
paronace product key to delivate	TrackPoint® Touchpad	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass	 Symantec™ VIP
Dimensions³ Weight² Case material Display cover: Bottom: 14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Carbon-fiber / Glass-fiber hybrid; Carbon-Fiber Reinforced Plastic • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo	Weight ²	6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid;	Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo
Battery - type Battery - life ¹⁰ Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 32.5 hr		6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr;	Edition (DVD±RW)
Chipset Mobile Intel QM77 Express Chipset ExpressCard One slot (ExpressCard/34)			
Smart Card read Multicard reader Multicard reader Ports None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	Multicard reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
PCIe Mini Card PCIe WLAN ⁴ Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Supports ThinkVantage® technology			Supports ThinkVantage® technologies
Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCle WWAN Carrier Wireless WAN upgradable None Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame)	PCIe WWAN	Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable	ThinkPad Roll Cage (one-piece
Modem None EPEAT™ Gold rating IEEE 1394 None ENERGY STAR® 5.0-compliant			EPEAT™ Gold rating
Bluetooth TM Some: Bluetooth 4.0 wireless GREENGUARD® certified GREENGUARD® certified	Bluetooth™	Some: Bluetooth 4.0 wireless	GREENGUARD® certified
Intel AMT Audio support Audio supp	Intel AMT Audio support	Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support
Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Bower On Authentication, supports the sequenty chip.	Security chip	Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	For compatible accessories, please go to O-T430 sheet;
Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available For Lenovo service ²² upgrade optic please go to S-TA sheet	-ingerprint reader	Power On Authentication, supports the security chin	<u> </u>

ThinkPad® T430 2342 (TopSeller) - Windows 8

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Finger print reader	Blue-			Intel vPro	Preload	Ann Date (mm/yy)
*	2342-6FU	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Win7 Pro64	10/12
	2342-6DU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	Backlit	Intel 620528	WWAN upg	Finger	BT	6	iAMT	vPro	Win8 Pro64	10/12
	2342-49U	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Win8 Pro64	10/12
	2342-48U	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Win8 Pro64	10/12
><	2342-47U	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Win8 Pro64	10/12
	2342-7PU	i5-3230M	4GBx1	14.0" HD+	720p	128G SSD	None	Intel 6205	WWAN upg	Finger	BT	6	None	No	Win7 Pro64	02/13
	2342-7NU	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Win8 Pro64	02/13
	2342-6QU	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	No	6	None	No	Win7 Pro64	02/13
	2342-7YU	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Win7 Pro64	04/13

 \bullet Small and medium business (SMB) model(s), part of the US TopSeller $^{\text{\tiny{TM}}}$ Program

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
	Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	- <i>Some:</i> Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate
Widescreen display	None Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Graphics	Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 32.5 hr	- All models • Lenovo Solution Center • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo Cloud Storage
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	 by SugarSync Norton™ Internet Security (30 days of virus definitions) Skype™
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Wireless WAN upgradable None None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options.
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430 2344 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCle Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth		Intel AMT	Intel vPro	Ann Date Preload (mm/yy)
2344-5NU	i7-3520M	4GBx2	14.0" HD+	720p	500G 7200	None	Intel 6205 ²⁸	WWAN upg	Finger	ВТ	6	iAMT	vPro	Pro 64 06/12
2344-5MU	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 06/12
2344-5LU	i7-3520M	4GBx2	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 06/12
2344-5KU	i7-3520M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 06/12
2344-5HU	i5-3320M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 06/12
2344-5FU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 06/12
2344-5EU	i5-3320M	8GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 06/12
2344-5DU	i5-3210M	4GBx1	14.0" HD+	720p	128G SSD	None	Intel 6205	WWAN upg	Finger	BT	6	None	None	Pro 64 06/12
2344-2HU	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 06/12
2344-6XU	i5-3320M	4GBx1	14.0" HD+	720p	180G SSD	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 07/12
2344-6RU	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64 07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 Password Manager Preloaded applications¹⁴ (only some listed)
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	 Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models)
mSATA™ SSD	None	ThinkVantage System Update
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	 ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Norton™ Internet Security 2012 (30 days of virus definitions)
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 32.5 hr	 Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset	Mobile Intel QM77 Express Chipset	
ExpressCard	One slot (ExpressCard/34)	
Smart Card read Multicard reader Ports	None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card	Two PCI Express Mini Card slots	Supports ThinkVantage® technologies
PCIe WLAN ⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth TM Ethernet Intel AMT	11a/b/g/n, PCle Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Some: Intel Active Management Technology (iAMT)	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7
Audio support Security	HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options.
Limited warranty ¹²	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430 2344 (TopSeller) - Windows 8

Type-model	Dragonar	Momory	Wide- screen	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Finger print reader	Blue-			ue- tery Int		Intel vPro	Preload	Ann Date
Type-Illouei	Processor	wemory	display	GD* Ipili	Doaru	WLAN	IIISAIA	reauer	tootii	cens	AIVII	VPIO	Freioau	(mm/yy)		
2344-BZU	i5-3320M	4GBx1	14.0" HD+	500G 7200	Backlit	Intel 6205 ²⁸	WWAN upg	Finger	BT	6	iAMT	vPro	Win7 Pro64	10/12		
2344-BYU	i5-3320M	4GBx1	14.0" HD+	500G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Win8 Pro64	10/12		
2344-BNU	i5-3320M	4GBx1	14.0" HD+	180G SSD	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Win7 Pro64	10/12		
2344-BKU	i5-3320M	4GBx1	14.0" HD+	500G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Win7 Pro64	10/12		
2344-6ZU	i7-3520M	4GBx1	14.0" HD+	500G 7200	Backlit	Intel 2200	WWAN upg	Finger	BT	6	None	No	Win8 Pro64	10/12		
2344-6YU	i5-3320M	4GBx1	14.0" HD+	180G SSD	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Win8 Pro64	10/12		
2344-6SU	i5-3320M	4GBx1	14.0" HD	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Win8 Pro64	10/12		
2344-C4U	i5-3320M	4GBx1	14.0" HD	500G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Win7 Pro64	10/12		

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core 17-3520M processor (z cores, 2.90GHz, 4MB cache), Intel H Daripics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology 160mgrade rights in Windows 8 Pro 64-bit Windows 8 Pro 64-bit Windows 8 Pro 64-bit Windows 8 Pro 64-bit Samzer Samzer Samzer Samzer Samzer Samzer Samzer Solid State Drive (SSD) / SATA disk. Samzer Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5* wide, 7mm high, bottom access Samzer Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5* wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Widescreen display 200 nits, 16:9 aspect ratio, 3001 contrast ratio 200 nits, 16:9 aspect ratio, 3001 contrast ratio 250 nits, 16:9 aspect ratio, 3001 contrast ratio 4Drive North Meximum external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display. Maximum external resolution: 2560nt600 @ 60Hz (DisplayPort via optional Mini DP cable); 2048x1536@75Hz (VGA) 4 Forw, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint* pointing device. "Press-So-Select," Internet Scroll Bar³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-fouch Illuminates the keyboard to improve visibility in low-light conditions Battery - type Battery -			
dual-channel capable, two 204-pin SQ-DIMM sockels System automatically clocks down for processors with 1333MHz DDR3 memory controller System automatically clocks down for processors with 1333MHz DDR3 memory controller System automatically clocks down for processors with 1333MHz DDR3 memory controller System automatically clocks down for processors with 1333MHz DDR3 memory controller DVD burner, 12 / Trum Ultrabay Enhanced, removable One bay for removable devices. Ultrabay Simc-compatible, 12 / Trum high, bottom access Some: Mar Disk Drive (SSD) / SATA 6.0Gb/s, 2.5° wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Widescreen display Some: 14.0° (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (355mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (355mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (355mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (355mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (355mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (355mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (450mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (450mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (450mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (450mm) HD (1600x900) color, anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 300°1 contrast ratio Some: 14.0° (450mm) HD		Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000,	- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Ultrabay SATA disk Some Solid State Drive (SSD) / SATA 6, Golbs, 2.5° wide, 7mm high, bottom access SATA disk Some Solid State Drive (SSD) / SATA 6, Golbs, 2.5° wide, 7mm high, Active Protection System™ All: emovable, upgradable, supports the second disk, Shock Mounted Hard Drive All: more wide, pugradable, supports the second disk, Shock Mounted Hard Drive Access Connections™ 1.6° aspect ratio, 300: 1 contrast ratio 200 nits, 16:9 aspect ratio, 300: 1 contrast ratio 200 nits, 16:9 aspect ratio, 300: 1 contrast ratio 200 nits, 16:9 aspect ratio, 300: 1 contrast ratio 200 nits, 16:9 aspect ratio, 300: 1 contrast ratio 250 nits, 16:9 aspect ratio, 300: 1 contrast ratio 4.0° mit HD 720 presolution, wide view angle, low light sensitive, face tracking, fixed focus (DVD-HW) 5.0° multiple special proteins are supports dual independent display. Maximum external resolution: 2560x 1600 @ 60Hz (DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; british display with the provider of the provider of trackPoint® pointing device, "Press-to-Select," Internet Scroll Barr³, magnifying glass UltraNaw" wide touchpad TinakLight** Dimensions* 4.40 W(WCW2H!) 13.4* x, 9.13* x 1.17*.11*; 340.5 mm x 232.0 mm x 29.8-29.9 mm 6-6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-Fiber Reinforced Plastic Battery - tile** Battery - tile** Battery - tile** Battery - tile** Battery - tile** Battery - tile** Battery - tile** Battery - tile** Battery - tile** Battery - tile** Battery - tile** Battery - tile** Batt	Memory	dual-channel capable, two 204-pin SO-DIMM sockets	Preloaded applications ⁵ (only some
Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 sapect ratio, 30:01 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Machinum oxidernal resolution. 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1250x1200@60Hz (Single-link DVI-1 via optional Mini DP cable); 1250x1200@60Hz (Single-link DVI-1 via optional Mini DP cable); 1250x1200@60Hz (Single-link DVI-1 via optional Mini DP cable); 1260x1200@60Hz (Single-link DVI-1 via optional Mini DP cable); 1260x1200@60Hz (Single-link DVI-1 via optional Mini DP cable); 1260x1200@60Hz (Single-link DVI-1 via optional Mini DP cable); 1260x1200x1200@60Hz (Single-link DVI-1 via optional Mini DP cable); 1260x1200x1200w100x1200x1200x1200x1200x1200	Uİtrabay SATA disk <u>mSATA™ SSD</u> Widescreen	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight,	Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader®
## Corel DVD MovieFactory® Lenovo Edition (DVD±RW) ## Supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort, supports dual independent display, ## Maximum external resolution: 2560x 1600 @ 60Hz (DisplayPort via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 1920x1200 @ 60Hz (single-link DVI-1 via optional Mini DP cable); ## 192	_	Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	purchase product key to activate • Corel® WinDVD® (DVD±RW)
TrackPoint* Dimensions* TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions Dimensions³	Graphics	supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);	Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models
Dimensions' 74.0W' (WXDXH): 13.4" x 9.13" x 1.17-1.18"; 340.5mm x 292.0mm x 29.8-29.9mm Weight' 6-cell: from 4.71 b(2.17kg); 9-cell: from 5.13 b(2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Battery - life¹ Battery - life¹ Battery - life¹ Carbon-Fiber Ale lintored Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Wh): up to 9.7 hr; 9-cell plus 9-cell Slice battery (94Whr): up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr): 0.036304): up to 32.5 hr Chipset ExpressCard Smart Card read Multicard reader Ports PCIe Mini Card PCIe WLAN¹ Two PCI Express Mini Card slots Some: 11ab/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11ab/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None REEE 1394 Bluetooth¹¹ Some: Bluetooth 4.0 wireless Ethernet Intel ABTS Some: Intel Active Management Technology (iAMT) Audio support Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Some: AuthenTee disk password, supervisor password, security repower On Authentication, supports the security chip Fingerprint reader For Lenovo solution Center Password Manager • Cyberlink Power2Go (DVD±RW) Cyberlink Power2Go (DVD±RW) Cyberlink Power2Go (DVD±RW) Cyberlink Power2Go (DVD±RW) Cyberlink Power2do to the Class to the C	TrackPoint® Touchpad	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch	Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
ExpressCard Smart Card read Multicard reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip Fingerprint software (fingerprint models) Lenovo Cloud Storage by SugarSync Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating Realer Moder Multica	Weight ² Case material Battery - type	6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr;	Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center Password Manager
PCIe WLAN⁴ Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable Carrier None Modem None None Bluetooth™ Some: Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Intel AMT Audio support Security Security Power-on password, hard disk password, supervisor password, security keyhole Security Chip Fingerprint reader Fingerprint reader Fingerprint reader Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ 60Id rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to O-T430 sheet; For Lenovo service²² upgrade options	ExpressCard Smart Card read Multicard reader Ports	One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync
PCIe WWAN Carrier None Modem None Modem None None Bluetooth™ Some: Bluetooth 4.0 wireless Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel AMT Some: Intel Active Management Technology (iAMT) Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to O-T430 sheet; For Lenovo service²² upgrade options			Supports ThinkVantage® technologies
Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options	PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack	ThinkPad Roll Ćage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support
I of Leriovo service appliade options	Security chip	Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	go to O-T430 sheet;
	Limited warranty ¹²	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	

ThinkPad® T430 2342 (Optimus) - TopSeller

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	Bat- tery cells	Intel vPro	Preload (Ann Date (mm/yy)
2342-4BU	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upa	None	None	6	None	Pro 64	07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	 Password Manager Preloaded applications¹⁴ (only some listed) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update
Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 3000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	 ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Evernote[®] Intel Small Business Advantage RapidBoot HDD Accelerator Symantec[™] VIP Windows Live[™] Essentials
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.4 hr; 9-cell (94Whr): up to 15.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr	 Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card read Multicard reader	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	Supports ThinkVantage® technologies
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Wireless WAN upgradable None None None None Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 None HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security Security chip Fingerprint reade	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options,
	² 1-year - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430 2342 (Optimus) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCle Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Bat- tery cells	Intel vPro	Preload	Ann Date (mm/yy)
2342-4CU	i5-2520M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	6	None	Win8 Pro64	10/12

\bullet Small and medium business (SMB) model(s), part of the US TopSeller $^{\text{\tiny{TM}}}$ Program

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ - Windows® 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Preloaded applications ⁵ (only some listed) - Windows 7 models
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	 Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded:
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW)
Camera Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics,	 Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
шарше	Intel HD Graphics 3000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.4 hr; 9-cell (94Whr): up to 15.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr	- All models • Lenovo Solution Center • Password Manager • ThinkVantage System Update • Fingerprint Software (fingerprint models) • Lenovo Cloud Storage
Chipset ExpressCard Smart Card read Multicard reader	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC)	 by SugarSync Norton™ Internet Security (30 days of virus definitions) Skype™
Ports	Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	Supports ThinkVantage® technologies
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Wireless WAN upgradable None None None None Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 None HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	For compatible accessories, please go to O-T430 sheet;
	² 1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430 2344 (Optimus) - TopSeller

Type-model	Processor	Wide- screen Memory display Camera		Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- t tooth c		Intel vPro			
2344-5PU 2344-5JU 2344-5GU 2344-6VU 2344-6TU	i7-3520M i5-3320M i5-3320M i7-3520M i5-3320M	4GBx1 4GBx1 4GBx1 4GBx1 4GBx1	14.0" HD+ 14.0" HD+ 14.0" HD+ 14.0" HD+ 14.0" HD+	720p 720p 720p	500G 7200 180G SSD 500G 7200 500G 7200 500G 7200	None None None Backlit Backlit	Intel 6205 ²⁸ Intel 6205 Intel 6205 Intel 6205 Intel 6205	WWAN upg WWAN upg WWAN upg WWAN upg WWAN upg	Finger Finger Finger Finger Finger	BT BT BT BT BT	9 9 9 9	vPro vPro vPro vPro vPro	Pro 64 Pro 64 Pro 64 Pro 64 Pro 64	06/12 06/12 06/12 07/12 07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 Rescue and Recovery™ Password Manager
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Preloaded applications ¹⁴ (only some listed) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections TM
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	 Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
Camera Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	by SugarSync • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Intel Small Business Advantage
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.4 hr; 9-cell (94Whr): up to 15.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr	Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two LISB 2.0 two LISB 2.0 (one powered) VGA DB 15 Mini DisplayPort, othernet (B L45)	
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹2
	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades ²² available	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430 2344 (Optimus) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide- screen nory display Camera		Disk SATA GB [®] rpm	ATA key- Mini (PCIe Mini Card WWAN/mSATA		Bat- Blue- tery Intel tooth cells vPro		Preload	Ann Date (mm/yy)
2344-BPU	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	Backlit	Intel 6205 ²⁸	WWAN upg	Finger	ВТ	9 vPro	Win7 Pro64	10/12
2344-BMU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	9 vPro	Win7 Pro64	10/12
2344-6WU	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	9 vPro	Win8 Pro64	10/12
2344-6UU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	9 vPro	Win8 Pro64	10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	 Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	(DVD±RW) • Corel DVD MovieFactory® Lenovo
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Edition (DVD±RW) - Windows 8 models - Lenovo Support - Lenovo Companion - Lenovo QuickLaunch - Microsoft® Office 2013 preloaded;
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.4 hr; 9-cell (94Whr): up to 15.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr	(DVD±RW) - All models - Lenovo Solution Center - Password Manager - ThinkVantage System Update - Fingerprint Software (fingerprint models)
	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	 Lenovo Cloud Storage by SugarSync Norton™ Internet Security (30 days of virus definitions) Skype™
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

			Wide- screen		Disk SATA	Backlit key-	PCIe PC Mini Card	Cle Mini C	ard	Finger print	Blue-	Bat- terv	G Intel	lobal (GMP	G)	Ann Date
Type-model	Processor	Memory	display	Camera		board	WLAN	mSATA	Carrier	reader	tooth			(P)	Preload	
2347-GAU	i5-3320M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 620528	³ upg	None	Finger	BT	6	vPro	G	Pro 64	06/12
2347-H9U	i5-3320M	4GBx1	14.0" HD	720p	180G SSD	None	Intel 6205	upg	None	Finger	BT	6	vPro		Pro 64	06/12
2347-G8U	i5-3320M	4GBx1	14.0" HD+	720p	128G SSD	None	Intel 6205	upg	None	Finger	BT	6	vPro	G	Pro 64	06/12
2347-GBU	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	upg	None	Finger	BT	6	vPro	G	Pro 64	06/12
2347-G5U	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	upg	None	Finger	BT	6	vPro	G	Pro 64	06/12
2347-H8U	i7-3520M	4GBx1	14.0" HD	No	500G 7200	None	Intel 6205	upg	None	None	No	6	vPro		Pro 64	06/12
2347-H7U	i5-3320M	4GBx1	14.0" HD	No	320G 7200	None	Intel 6205	upg	None	None	No	6	vPro		Pro 64	06/12
2347-H6U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	None	Intel 6205	upg	None	Finger	BT	6	vPro		Pro 64	06/12
2347-H2U	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	upg	None	Finger	BT	6	vPro		Pro 64	06/12
2347-GZU	i5-3320M	4GBx1	14.0" HD	720p	128G SSD	None	Intel 6205	upg	None	Finger	BT	6	vPro		Pro 64	06/12
2347-G3U	i7-3520M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	upg	None	Finger	BT	6	vPro	G	Pro 64	06/12
2347-G2U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	None	Intel 6205	upg	None	Finger	BT	6	vPro	G	Pro 64	06/12
2347-K9U	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	Gobi	AT&T	Finger	BT	6	vPro		Pro 64	09/12
2347-K8U	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	Gobi	Verizon	Finger	BT	6	vPro		Pro 64	09/12

- A depot repair service 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

Positioning Premiere performance; two spindles	Duele eded energine access on
Processor Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000 DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Professional 64 Ready to install applications ¹⁴ (only
Memory 16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	ome listed) Rescue and Recovery™ Password Manager
Optical Ultrabay SATA disk DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	 Preloaded applications¹⁴ (only some listed) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™
mSATA™ SSD None	Fingerprint Software (fingerprint)
Widescreen display Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
Camera Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	by SugarSync
Graphics Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote®
Keyboard TrackPoint® 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass Touchpad ThinkLight™ UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Intel Small Business Advantage RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials
Dimensions ³ Weight ² Case material Battery - life ¹⁰ Battery - lif	 Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset Mobile Intel QM77 Express Chipset ExpressCard One slot (ExpressCard/34) Smart Card read Multicard reader Multicard reader Ports Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) Two PCI Express Mini Card slots PCIe WLAN4 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	
PCIe WWAN Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, PCIe Mini Card,	Supports ThinkVantage® technologies 65-watt AC adapter
LTE, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS Carrier Modem Modem IEEE 1394 Bluetooth™ Bluetooth™ Bluetooth™ Some: Bluetooth 4.0 wireless Ethernet Intel AMT Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430 sheet;
Limited warranty ¹² 3-years /1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430 2347 (Windows 8)

	Wide- screen		Disk Backli SATA kev-		PCle Mini Card			ger Bat- nt Blue- tery		Global (G) Intel GMP			Ann Date		
Type-model	Processor	Memory	display	Camera	GB ⁸ rpm	board	WLAN	mSATA	reader	tooth	celĺs	vPro	(P)	Preload	(mm/yy)
2347-JKU	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 620528	WWAN upg	Finger	BT	6	vPro		Win8 Pro64	10/12
2347-JGU	i5-3320M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win8 Pro64	10/12
2347-JBU	i7-3520M	4GBx1	14.0" HD	No	500G 7200	None	Intel 6205	WWAN upg	None	No	6	vPro		Win8 Pro64	10/12
2347-JAU	i5-3320M	4GBx1	14.0" HD	No	320G 7200	None	Intel 6205	WWAN upg	None	No	6	vPro		Win8 Pro64	10/12
2347-J9U	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	G	Win8 Pro64	10/12
2347-J8U	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	G	Win8 Pro64	10/12
2347-L4U	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12
2347-L3U	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12

• A depot repair service 3-year limited warranty

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 Some: Windows 8 Pro 64-bit Preloaded applications⁵ (only some listed)
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	- Windows 7 models • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap
Widescreen display Camera	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models Lenovo Support Lenovo Companion
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 32.5 hr	 Cýberlink PowerProdùcer (DVD±RW) All models Lenovo Solution Center Password Manager ThinkVantage System Update
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	 Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync SkypeTM
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430 2347 (Optimus)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue-		Intel) · ·	Ann Date mm/yy)
2347-G9U	i7-3520M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 6205 ²⁸	WWAN upg	Finger	ВТ	9	vPro	G	Pro 64	06/12
2347-G7U	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64	06/12
2347-G6U	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64	06/12
2347-G4U	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64	06/12

- A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 Rescue and Recovery™ Password Manager
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Preloaded applications ¹⁴ (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery
mSATA™ SSD	None	 Access Connections™ Fingerprint Software (fingerprint
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	by SugarSync _
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	 Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Bottom: Carbon-Fiber Alignment Ali	 Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card read Multicard reader	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	Supports ThinkVantage® technologies
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430 2347 (Optimus) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	Bat- tery cells	Intel vPro	Preload	Ann Date (mm/yy)
2347-L5U	i7-3520M	4GBx1	14.0" HD+	720p	180G SSD	Backlit	Intel 620528	WWAN upa	Finger	BT	9	vPro	Win7 Pro64	12/12

• A depot repair service 3-year limited warranty

Positioning Processor	Premiere performance; two spindles Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Windows® 7 Professional 64 preinstalled through
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	downgrade rights in Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™
mSATA™ SSD Widescreen display	None Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate
Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays;	 Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models
Keyboard TrackPoint® Touchpad ThinkLight™	Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA) 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.4 hr; 9-cell (94Whr): up to 15.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr	 Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center Password Manager ThinkVantage System Update
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	 Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430 2349 (Onsite)												D	orcon	al Svet	ome P	eference	(DCDEE)
IninkP	ad [®] 143	30 234	9 (Ons	ite)								Г	ersori	ai Sysi	eilis n	eierence	(FSNEF)
Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe PC Mini Card WLAN	le Mini C WWAN/ mSATA		Smart Card Reader	print	Blue-		Intel		G) Preload	Ann Date (mm/vv)
2349-GAU	i5-3320M		<u> </u>	720p	180G SSD	None	Intel 62052	³ upg	None	None	Fing	ВТ	6	vPro	_ ` _	Pro 64	06/12
2349-GDU				720p	128G SSD	None	Intel 6205	upg	None	None	Fing	BT	6			Pro 64	
2349-G8U		-	14.0" HD+		128G SSD	None	Intel 6205	upg	None	None	Fing	BT	6	-	-	Pro 64	
2349-G5U			14.0" HD+		500G 7200	None	Intel 6205	upg	None	None	Fing	BT	6			Pro 64	
2349-GCU		-	14.0" HD+	-	320G 7200	None	Intel 6205	upg	None	None	Fing	BT.	6	vPro		Pro 64	
2349-GWU				720p	320G 7200	None		upg	None	None	Fing	BT	6	vPro	<u> </u>	Pro 64	
2349-GVU			14.0" HD	No	500G 7200	None	Intel 6205	upg	None	None	No	No.	6	vPro		Pro 64	
2349-GUU				No	320G 7200		Intel 6205	upg	None	None	No	No	6	vPro		Pro 64	
2349-GRU		-	-	720p	500G 7200		Intel 6205	upg	None	None	Fing	BT	6	vPro		Pro 64	
2349-G3U	i7-3520M			720p	500G 7200		Intel 6205	upg	None	None	Fing	BT	6	vPro	GΡ	Pro 64	
2349-G2U	i5-3320M		14.0" HD	720p	320G 7200		Intel 6205	upg	None	None	Fing	BT.	6	vPro	-	Pro 64	
2349-HFU			14.0" HD+		320G 7200		Intel 6205	upg	None	Smart		BT	6			Pro 64	
2349-HNU	i5-3320M	-	-	720p	320G 7200		Intel 6205	upg	None	None	No	BT.	6	vPro	-	Pro 64	
2349-JTU	i5-3320M			720p	500G 7200		Intel 6205	Gobi	AT&T	None	Fing	BT	_	vPro	<u> </u>		09/12
2349-JSU	i5-3320M			720p	500G 7200			Gobi	Verizon		Fing	BT	_	vPro		Pro 64	
2010 000		-			Global Mode						_				,		00/12
					ct Kev Ready				i onone c	CIVICC	o year	,,,,,,,,	cu w		,		
Positioning Processor	Pre Inte DD Inte	miere per el® Core™ R3 memo el Core i7	rformance; i5-3320M ory controlle -3520M pro	two spine process er (up to ocessor	<u> </u>	2.60GH ntel Turk 90GHz,	Hz, 3MB cac no Boost 2.0 4MB cache	(3.30Gl), Intel l	∃z), HT te ∃D Grap l	echnolog nics 400	4000, 3y 00,	Genu Profe	ine W ssion y to i	/indov al 64 i nstal l	ıs® 7	system	
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller										Res	scue	and R d Mar		ery™		
Optical Ultrabay SATA disk SATA disk MSATA™ SSD Optical Ultrabay DVD burner, 12.7mm Ultrabay Enhanced, removable, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, supports the second disk, Shock Mounted Hard Drive None											listed) Ler Ler Thir) novo® novo l nkVa cess (Solut Messa ntage Conne	ion Ce ige Ce Produ ections	enter Plu uct Reco s™	is very	
Widescreen											Fingerprint Software (fingerprint models) Think Ventors System Undete						

200 nits, 16:9 aspect ratio, 300:1 contrast ratio display 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, Some: 250 nits, 16:9 aspect ratio, 300:1 contrast ratio Camera Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Graphics Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display;

Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);
1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA) 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight Keyboard TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch TráckPoint® Touchpad ThinkLight™

Illuminates the keyboard to improve visibility in low-light conditions 14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 32.5 hr

Chipset Mobile Intel QM77 Express Chipset ExpressCard One slot (ExpressCard/34) Smart Card read Some: Smart Card reader Multicard reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)

Two PCI Express Mini Card slots

PCIe Mini Card PCIe WLAN4 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 PCIe WWAN

Bottom:

Some: Wireless WAN upgradable Wireless WAN, Qualcomm® Gobi™ 4000 chipset, PCle Mini Card, Some:

LTE, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS

Some: AT&T® or Verizon® LTE (4G), contract required with service provider None

Modem **IEEE 1394** None

Dimensions³

Case material

Battery - type Battery - life¹⁰

Weight²

Carrier

Bluetooth™ Some: Bluetooth 4.0 wireless

Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Ethernet Intel AMT

Intel Active Management Technology (iAMT)
HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / Audio support volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack

Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Security Security chip

Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip

Limited warranty¹² 3-years/1-year battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades22 available

- ThinkVantage System Update
- ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Àdobe® Reader®
- Skype™ for Windows
- Evernote®
- Intel Small Business Advantage
- RapidBoot HDD Accelerator
- Symantec™ VIP
- Windows Live™ Essentials
- Microsoft® Office 2010 preloaded: purchase product key to activate
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo Édition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage® technologies

65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant

International Warranty Service17 24 hour x 7 day¹⁸ toll-free support during the warranty period¹²

For compatible accessories, please go to O-T430 sheet;

For Lenovo service²² upgrade options, please go to S-TA sheet

ThinkPad® T430 2349 (Onsite) - Windows 8

			Wide- screen		Disk SATA	Backlit key-	PCle Mini Card	PCIe Mini Card WWAN/	print	Blue-		Intel		G)	Ann Date
Type-model	Processor	Memory	display	Camera	GB ⁸ rpm	board	WLAN	mSATA	reader	tooth	cells	vPro	(P)	Preload	(mm/yy)
2349-JQU	i7-3520M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205 ²⁸	WWAN upg	Finger	BT	6	vPro	GΡ	Win8 Pro64	10/12
2349-JPU	i5-3320M	4GBx1	14.0" HD+	- 720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	GΡ	Win8 Pro64	10/12
2349-JNU	i5-3320M	4GBx1	14.0" HD+	- 720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	GΡ	Win8 Pro64	10/12
2349-JMU	i5-3320M	4GBx1	14.0" HD	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	GΡ	Win8 Pro64	10/12
2349-LTU	i5-3320M	4GBx1	14.0" HD+	- 720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12
2349-LSU	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12
2349-LRU	i5-3320M	4GBx1	14.0" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12

• Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	- Windows 7 models • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) • Windows 8 models • Lenovo Support
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic	Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 32.5 hr	Lenovo Solution Center Password Manager ThinkVantage System Update
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	 Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430 sheet;
Limited warranty ¹²	² 3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430 2349 (Optimus) - Onsite

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCle Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	Bat- tery cells	Intel	lobal (GMP (P)		Ann Date (mm/yy)
2349-G9U	i7-3520M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 6205 ²⁸	WWAN upg	Finger	ВТ	9	vPro	GΡ	Pro 64	06/12
2349-G7U	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2349-G6U	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2349-G4U	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12

- Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 Rescue and Recovery™ Password Manager
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Preloaded applications ¹⁴ (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery
mSATA™ SSD	None	Access Connections™ Fingerprint Software (fingerprint)
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	by SugarSync
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	 Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Carbon-Fiber Reinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.4 hr; 9-cell (94Whr): up to 15.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr	 Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WLAN PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage	For compatible accessories, please go to O-T430 sheet; For Lenovo service ²² upgrade options,
Limited warranty.	excluding holidays, next business day response time / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430 2349 (Optimus) - Onsite (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth		Intel vPro	Preload	Ann Date (mm/yy)
2349-I UU	i7-3520M	4GBx1	14.0" HD+	720p	180G SSD	Backlit	Intel 620528	WWAN upa	Finger	BT	9	vPro	Win7 Pro64	12/12

Positioning Processor	Premiere performance; two spindles Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Windows [®] 7 Professional 64 preinstalled through
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	downgrade rights in Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™ - ThinkVantage Power Manager
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays;	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) • Windows 8 models • Lenovo Support
-	Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Lenovo Companion Lenovo QuickLaunch
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink Power2Bodycor.
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg) Display cover: Carbon-Fiber Peinforced Plastic Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.4 hr; 9-cell (94Whr): up to 15.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr	Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center Password Manager ThinkVantage System Update Fingerprint Software (fingerprint
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	models) • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security (30 days of virus definitions) • Skype™
	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to O-T430 sheet;
Limited warranty	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430 Accessories

Memory 2GB PC3-12800 DDR3 SODIMM 4GB PC3-12800 DDR3 SODIMM 8GB PC3-12800 DDR3 SODIMM	0A65722 ann 06/05/12 0A65723 ann 06/05/12 0A65724 ann 06/05/12	ThinkPad Battery 70++ (9-cell) 0A36303 ann 06/05/12 ThinkPad Battery 28++ (9 cell, slice) ⁴³ 0A36304 ann 06/05/12
Ultrabay Enhanced 12.7mm	0A65623 ann 02/28/12	⁴³ To be used along with system battery for all-day computing; attaches under ThinkPad using docking connector (not supported when using Series 3 Port Replicator or Docks).
Serial ATA Hard Drive 12.7mm Bay Adapter III DVD Burner Ultrabay Enhanced Drive III	0A65625 ann 06/05/12	ThinkPad External Battery Charger ⁴⁴ 40Y7625 ann 09/20/05
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive	0B47309 ann 12/11/12	
500GB 5400rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹	0A65631 ann 06/05/12 0A65632 ann 06/05/12	More information at www.lenovo.com/alldaycomputing ThinkPad 65W AC Adapter ⁴⁵ 40Y7696 ann 01/05/06
320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm	0A65635 ann 06/05/12 0A65636 ann 08/21/12	45 Only compatible with the integrated graphics models. ThinkPad 90W AC Adapter 40Y7659 ann 09/20/05
Self Encrypting (SED) OPAL Capable HDD ⁴¹ 128GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹ 180GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹	0A65629 ann 06/05/12 0A65630 ann 06/05/12	90W Ultraslim AC/DC Combo Adapter 41R4493 ann 09/22/09 More info at www.lenovo.com/support/poweradapters
256GB 2.5" SATA 6.0Gb/s OPAL-capable SSD ⁴¹ ⁴¹ Can be used as the main HDD or with	0A65620 ann 05/15/12	Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493
Serial ATA Hard Drive 12.7mm Bay Adapter III 0. USB 2.0 Portable 500GB Hard Disk	A65623 in the Ultrabay. 45K1690 ann 05/26/09	•iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07 •Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09
USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive	0A65619 ann 11/29/11 0A65616 ann 11/29/11	More information at www.lenovopowertips.com
USB 3.0 Secure 1TB Hard Drive Lenovo Slim USB Portable DVD Burner	0A65621 ann 08/28/12 0A33988 ann 06/14/11	Carrying Cases Up to 14" widescreen models: ThinkPad 14W Case Sleeve 57Y4294 ann 03/16/10
Wireless WAN (Mini PCI Express) Only WWAN upgradable models:		Up to 15.6" widescreen models: Lenovo Messenger Max 41U5253 ann 05/01/07
ThinkPad Gobi [™] 3000 Mobile Broadband ThinkPad Gobi 4000 Mobile Broadband - AT&T® ThinkPad Gobi 4000 Mobile Broadband - Verizon		
ThinkPad Expansion Lenovo® Essential Notebook Stand	45J9292 ann 05/12/09	ThinkPad Executive Leather Case 43R2480 ann 05/13/08 Lenovo Sport Backpack - Red 0A33896 ann 02/28/12
ThinkPad Port Replicator Series 3 with USB 3.0 ThinkPad Mini Dock Series 3 - 90W ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W	433615W ann 06/05/12 433710U ann 06/23/09 433715U ann 06/05/12	
TP Mini Dock Plus Series 3 w/ USB 3.0 - 90W TP Mini Dock Plus Series 3 w/ USB 3.0 - 170W	433815U ann 06/05/12 433835U ann 06/05/12	Wonitors
Keyboard TrackPoint Cap Collection Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad Preferred Pro USB Keyboard Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard Lenovo USB Smartcard Keyboard 52 Wireless via 2.4GHz technology using a micro	73P2698 ann 12/16/03 0A34032 ann 04/05/11 33L3225 ann 05/01/00 73P5220 ann 06/21/05 73P2620 ann 03/23/04 55Y9003 ann 08/18/09 73P4730 ann 02/22/05 51J0155 ann 03/24/09 -size USB receiver.	ThinkVision® L1711p 17" (VGA, DVI-D) 5047HB2 ann 10/20/09 ThinkVision L1900p 19" (VGA, DVI-D) 4431HE1 ann 11/11/08 ThinkVision L1952p Wide 19" (VGA, DP, DVI-D)® 2448MB6 ann 09/13/11 ThinkVision L2250p Wide 22" (VGA, DVI-D) 2572HB6 ann 10/20/09 ThinkVision L2251x Wide 22" (VGA, DP)® 2578HB6 ann 10/20/09 ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)® 2572MB6 ann 09/13/11 ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)® 4420MB2 ann 09/13/11 ® DisplayPort cable is not included. ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0) 1452DS6 ann 08/16/11 ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Case (USB 2.0) 1452DB6 ann 08/16/11
Mouse Lenovo Optical Mouse (USB)	06P4069 ann 05/21/03	More information at www.lenovo.com/support/monitors
Lenovo Laser Mouse (USB) ThinkPad USB Laser Mouse Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical)	41U3074 ann 01/23/07 57Y4635 ann 12/15/09 31P7405 ann 08/27/02 31P7410 ann 06/04/02	Monitor Accessories ⁴⁶ Lenovo USB 3.0 to DVI/VGA Monitor Adapter 0B47072 ann 08/14/12
ThinkPad Bluetooth Laser Mouse Lenovo Wireless Laser Mouse ⁵² Multimedia	0A36407 ann 06/26/12 0A36188 ann 12/20/11	Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable DB47090 ann 05/17/11 DB47091 ann 07/24/12 OA36190 ann 05/01/12
ThinkPad In-Ear Headphones with microphone	57Y4488 ann 01/07/10	
USB 2.0 Lenovo Modem Security	43R1814 ann 02/26/08	
3M 14.0W Privacy Filter from Lenovo Kensington® MicroSaver® Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock	0A61769 ann 04/05/11 73P2582 ann 12/29/03 45K1620 ann 09/30/08 57Y4303 ann 08/24/10	
USB Gemplus GemPC Smart Card Reader	41N3040 ann 02/21/06	
		www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessory brochures
		www.lenovoquickpick.com An Options Compatibility Configurator for Lenovo systems

ThinkPad_®



Lenovo® ThinkPad T430s



Lenovo ThinkPad T430s



Lenovo ThinkPad T430s with Lenovo Essential Notebook Stand 45J9292, notebook, keyboard and mouse



Lenovo ThinkPad T430s with USB 3.0 Secure 750GB Hard Drive 0A65616



Lenovo ThinkPad T430s



Lenovo ThinkPad T430s with USB 3.0 Secure 750GB Hard Drive 0A65616

ThinkPad® T430s 2352 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Disk SATA GB [®] rpm	Optical or Blank bezel	Backlit key- board	PCIe Mini Card C WLAN		print	battery	/ tery	Intel	Intel vPro	Pre- load	Ann Date (mm/yy)
2352-2KU	i5-3320M	4GBx1	14.0" HD+	128G SSD	Blank bezel	None	Intel 6205 ²⁸	upg	Finger	3	6	iAMT	vPro	Pro 64	06/12
2352-2JU	i5-3320M	4GBx1	14.0" HD+	320G 7200	DVD±RW	None	TP 11b/g/n	upg	None	No	6	None	None	Pro 64	06/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	Some: DVD burner, 9.5mm Ultrabay slim, removable Some: ThinkPad Battery 43 (3-cell, bay) (0A36310), used in Option Bay One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	 Password Manager Preloaded applications¹⁴ (only some listed) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections¹™
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	 Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo Cloud Storage
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	by SugarSync • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator Symantec™ VIP
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium lon 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	 Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i7 integrated model, switch via BIOS)	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
PCIe Mini Card	Two PCI Express Mini Card slots	Supports ThinkVantage® technologies
PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430-S sheet;
Limited warranty ¹²	² 1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet
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ThinkPad® T430s 2353 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Disk SATA GB [®] rpm	Optical or battery	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	print	tery	Power Adapter (watt)		Preload (Ann Date mm/yy)
2353-2NU	i7-3520M	4GBx1	14.0" HD+	180G SSD	DVD±RW	None	Intel 6205 ²⁸	WWAN upg	Finger	6	90W	vPro	Pro 64	06/12
2353-2MU	i5-3320M	4GBx1	14.0" HD+	500G 7200	DVD ±RW	None	Intel 6205	WWAN upg	Finger	6	65W	vPro	Pro 64	06/12
2353-2LU	i5-3320M	4GBx1	14.0" HD+	128G SSD	DVD ±RW	None	Intel 6205	WWAN upg	Finger	6	65W	vPro	Pro 64	06/12
2353-6GU	i7-3520M	4GBx1	14.0" HD+	500G 7200	DVD ±RW	Backlit	Intel 6205	WWAN upg	Finger	6	65W	vPro	Pro 64	07/12
2353-6FU	i7-3520M	4GBx1	14.0" HD+	180G SSD	DVD±RW	Backlit	Intel 6205	WWAN upg	Finger	6	65W	vPro	Pro 64	07/12
2353-6DU	i5-3320M	4GBx1	14.0" HD+	180G SSD	DVD±RW	Backlit	Intel 6205	WWAN upg	Finger	6	65W	vPro	Pro 64	07/12
2353-6AU	i5-3320M	4GBx1	14.0" HD+	128G SSD	DVD ±RW	Backlit	Intel 6205	WWAN upg	Finger	6	65W	vPro	Pro 64	07/12
2353-69U	i5-3320M	4GBx1	14.0" HD+	500G 7200	DVD±RW	Backlit	Intel 6205	WWAN upg	Finger	6	65W	vPro	Pro 64	07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000,	Preloaded operating system ²⁰ Genuine Windows® 7
110000001	DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000,	Professional 64 Ready to install applications ¹⁴ (only
	DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Rescue and Recovery™ Password Manager
Optical Bay battery	DVD burner, 9.5mm Ultrabay slim, removable None	Preloaded applications ¹⁴ (only some listed) • Lenovo® Solution Center
Ultrabay SATA disk	One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high Robert Protection System™	 Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™
mSATA™ SSD	All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Fingerprint Software (fingerprint models)
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight,	ThinkVantage System UpdateThinkVantage Power ManagerLenovo Cloud Storage
Camera	250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	by SugarSync Lenovo SimpleTap
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote®
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Intel Small Business Advantage RapidBoot HDD Accelerator Symantec [™] VIP Windows Live [™] Essentials Microsoft® Office 2010 preloaded;
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo
	4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter	Edition (DVD±RW)
Ports	Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i7 integrated model, switch via BIOS)	
PCIe Mini Card	Two PCI Express Mini Card slots	Supports ThinkVantage® technologies
PCIe WLAN ⁴ PCIe WWAN Carrier	11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None	65-watt or 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame)
Modem IEEE 1394	None None	EPEAT™ Silver rating ENERGY STAR® 5.0-compliant
Bluetooth™ Ethernet	Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	GREENGUARD® certified
Intel AMT Audio support	Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack	RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	For compatible accessories, please go to O-T430-S sheet:
	Power On Authentication, supports the security chip	For Lenovo service ²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430s 2353 (TopSeller) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Disk SATA GB [®] rpm	Optical or battery	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Finger print reader	tery	Intel vPro	Preload	Ann Date (mm/yy)
2353-9VU	i7-3520M	4GBx1	14.0" HD+	500G 7200	DVD±RW	None	Intel 6205 ²⁸	WWAN upg	Finger	6	vPro	Win7 Pro64	10/12
2353-9MU	i5-3320M	4GBx1	14.0" HD+	128G SSD	DVD±RW	Backlit	Intel 6205	WWAN upg	Finger	6	vPro	Win7 Pro64	10/12
2353-9LU	i5-3320M	4GBx1	14.0" HD+	500G 7200	DVD ±RW	Backlit	Intel 6205	WWAN upg	Finger	6	vPro	Win7 Pro64	10/12
2353-6HU	i7-3520M	4GBx1	14.0" HD+	500G 7200	DVD±RW	Backlit	Intel 6205	WWAN upg	Finger	6	vPro	Win8 Pro64	10/12
2353-6EU	i7-3520M	4GBx1	14.0" HD+	180G SSD	DVD ±RW	Backlit	Intel 6205	WWAN upg	Finger	6	vPro	Win8 Pro64	10/12
2353-6CU	i5-3320M	4GBx1	14.0" HD+	180G SSD	DVD±RW	Backlit	Intel 6205	WWAN upg	Finger	6	vPro	Win8 Pro64	10/12
2353-6BU	i5-3320M	4GBx1	14.0" HD+	128G SSD	DVD ±RW	Backlit	Intel 6205	WWAN upg	Finger	6	vPro	Win8 Pro64	10/12
2353-68U	i5-3320M	4GBx1	14.0" HD+	500G 7200	DVD±RW	Backlit	Intel 6205	WWAN upg	Finger	6	vPro	Win8 Pro64	10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000,	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in
Memory	DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology 16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Optical Bay battery Ultrabay SATA disk MSATA TM SSD Widescreen display	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW)
Camera	Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	(ĎVD±RW) - All models - Lenovo Solution Center - Password Manager
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i7 integrated model, switch via BIOS)	 ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
PCIe Mini Card	Two PCI Express Mini Card slots	Supports ThinkVantage® technologies
PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	11a/b/g/n, PCle Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430-S sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430s 2353 (Optimus) - TopSeller (Windows 8)

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Finger print reader	tery	Intel AMT	Intel vPro	Preload	Ann Date (mm/yy)
	2353-9WU	i7-3520M	4GBx1	14.0" HD+	720p	180G SSD	Backlit	Intel 6205 ²⁸	WWAN upg	Finger	6	iAMT	vPro	Win7 Pro64	10/12
><	2353-9KU	i5-3210M	4GBx1	14.0" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	6	None	No	Win7 Pro64	10/12
><	2353-67U	i5-3210M	4GBx1	14.0" HD	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	6	None	No	Win8 Pro64	10/12
	2353-ALU	i5-3230M	4GBx1	14.0" HD	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	6	None	No	Win8 Pro64	02/13
	2353-ABU	i5-3230M	4GBx1	14.0" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	6	None	No	Win7 Pro64	02/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Preloaded applications ⁵ (only some listed) - Windows 7 models
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW)
Widescreen display Camera	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5200M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort or Thunderbolt (i7 integrated models); supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	(DVD±RW) - All models - Lenovo Solution Center - Password Manager
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort	Norton™ Internet Security (30 days of virus definitions) Skype™
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth TM Ethernet Intel AMT Audio support Security	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades ²² available	For compatible accessories, please go to O-T430-S sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet

Type-model Pro	cessor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA		print	Bat- Bay tery batter cells cells	y Intel (bal (0 GMP (P)	Pre-	Ann Date (mm/yy)		
2355-HMU i7-3	3520M	4GBx1	14.0" HD+	720p	320G 7200	None	Intel 6205 ²⁸	WWAN upg		Finger		vPro			06/12		
2355-HLU i7-3	3520M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	None	Finger	6 No	vPro	G	Pro 64	06/12		
2355-HKU i7-3	3520M	4GBx2	14.0" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	None	Finger	6 No	vPro	G	Pro 64	06/12		
2355-HFU i5-3			14.0" HD+	720p	128G SSD	None	Intel 6205	WWAN upg	None	Finger	6 No	-			06/12		
2355-HEU i5-3			14.0" HD+	720p	128G SSD	None	Intel 6205	Gobi 3000		Finger		vPro			06/12		
2355-HDU i5-3			14.0" HD+		320G 7200	None	Intel 6205	WWAN upg		Finger		vPro			06/12		
2355-HCU i5-3			14.0" HD+	720p	128G SSD	None	Intel 6205	WWAN upg		Finger		vPro			06/12		
2355-GUU i5-3 2355-GTU i5-3		-	14.0" HD+	720p 720p	320G 7200 128G SSD	None	Intel 6205	WWAN upg	None		6 No	vPro vPro			06/12		
2355-GMU i7-3			14.0" HD+	720p	320G 7200	None None	Intel 6205 Intel 6205	WWAN upg WWAN upg	None None		6 No	vPro			06/12		
2355-G3U i7-3			14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg		Finger		vPro			06/12		
	3320M		14.0" HD+	720p	320G 7200		Intel 6205	WWAN upg		Finger		vPro			06/12		
	3320M				500G 7200		Intel 6205	Gobi 4000		Finger		vPro			09/12		
-			• Micro	soft® Of	ir service 3-ye fice 2010 Pro	duct Key	/ Ready (O10	OPKR)									
Positioning					ortability; two					F	Preloaded			ystem ²	20		
Processor								e), Intel HD Gra 3.30GHz), HT te			Genuine W		7				
	Intel	Core i7	-3520M prod	essor (2 cores. 2.90	GHz. 41	MB cache).	Intel HD Grapi	hics 400	ió.	Professiona						
								.60GHz), HT te		1V F	Ready to in		plica	ations	14 (only		
Memory	16GE	3 max ⁷ /	PC3-12800	1600MH	Iz DDR3, non	-parity,	,	•			some listed Rescue a		overv	rTM			
,	dual-	channel	capable, two	204-pii	n SO-DIMM s	ockets	n 1333MHz [DDR3 memory	controll		Password						
Optical			9.5mm Ultral		<u> </u>	JOIO WILL	1 1000111112 1	DDI TO THEITHOLY	COLLIGI	F	Preloaded	applica	tions	3 ¹⁴ (only	y some		
Bay battery	Som	e: Think	Pad Battery	43 (3-ce	ell, bay) (0A36	310), u	sed in Option	n Bay			isted) Lenovo®	Solution	Con	tor			
Ultrabay	One	modular	bay for inter	changea	able devices (right sid	le), 9.5mm h	igh, bottom acc	cess		Lenovo N				s		
SATA disk					SATA 6.0Gb/s				.a.taa.TM	•	ThinkVan						
	Some All:							e Protection Sy lounted Hard D			Access C						
mSATA™ SSD	None		vable, upgra	uable, Si	upports trie s	econa a	isk, Silock iv	iounteu maru L	nive	•	Fingerpri	nt Softw	are (fingerp	rint		
Widescreen			(355mm) H	D (1366	x768) color,	anti-alar	e LED hack	liaht			models) ThinkVan	tage Sv	stem	Undat	-		
display	00111				, 300:1 contra		0, 222 5401	g,									
	Some				0x900) color		are, LED bac	cklight,		•	ThinkVantage Power ManagerLenovo Cloud Storage						
0	0				, 300:1 contra			- Ann alder a Con-			by Sugar						
Camera			•			w light s	sensitive, tac	e tracking, fixe	a locus		Lenovo S Norton™			ırity 20	112		
Graphics			phics 4000 i			15 and a	ligital monito	vrvia Mini Dien	lovPort:		(30 days				/		
			l independer			io anu c	ilgitai monito	or via Mini Disp	iayroit,	•	Adobe® F			,			
						Hz (Dis	olayPort via	optional Mini D	P cable); •	Skype™ f		ows				
								48x1536@75⊦) •		Evernote® Intel Small Business Advantage					
Keyboard	6-rov	v, 84-key	, ThinkVanta	ge butto	n, spill-resista	ant, mul	timedia Fn k	eys, optional Ll	ED back	dight	RapidBo						
TrackPoint®	Track	Point® p	ointing devic	e, "Pres	s-to-Select," I	nternet	Scroll Bar13,	magnifying gla	ISS	•	Symante						
Touchpad ThinkLight™	Ultra	Nav™, W inates th	ide toucnpad	d below	keyboard, Ťap ve visibility in) Zones low-ligh	, scrolling, m t conditions	iuiti-touch			Windows						
				•				1.0.06.0mm		—- ·	 Microsoft purchase 						
Dimensions ³ Weight ²			3.96 lb (1.79		0.83–1.02"; 3	43111111 X	(23011111 X 2	1.2-26.011111			Corel® W				vaie		
Case material					er reinforced i	olastic:	Bottom: M	agnesium alloy	/		Corel Bu				dition		
Battery - type	Lithiu	ım lon 6-	-cell, suppor	ts optior	nal Ultrabay S	lim batte	ery as 2nd b	attery, HW auth	nenticati	on	(DVD±RV						
Battery - life ¹⁰	6-cel	I (43.2W	<i>(hr):</i> up to 7.6	6 hr; <i>6-c</i>	ell plus 3-cell	Bay bat	tery (31.3Wl	<i>hr, 0Å36310):</i> u	p to 13.	2 hr •	Corel DV Edition (E			ory [®] Le	enovo		
Chipset	Mobi	ile Intel	QM77 Expre	ess Chip	oset						Edition (L	יאח±טיע	v)				
ExpressCard			ressCard/34	1)													
Smart Card Read Multicard Reade			(MMC SD S	SDHC S	SDXC) via Ex	nressCa	rd adanter										
Ports					2.0, ethernet			j.,									
	Mini	DisplayP	ort (Mini DP	/ Thund	lerbolt™ comb	o port c	on i7 integrat	ed model, swite	ch via B	IOS)							
PCIe Mini Card	Two I	PCI Expi	ress Mini Ca	rd slots													
PCIe WLAN⁴	11a/b	o/g/n, PC	le Half Mini	Card, In	tel Centrino®	Advance	ed-N 6205, 2	2x2									
PCIe WWAN	Som	e: wirei	ess WAN up	gradabie	e n® Gobi™ 300	O chine	at PCIa Mini	i Card									
	Join				DMA/HSPA,		et, i Ole iviii ii	i Caiu,		H.							
	Some	e: Wirel	ess WAN, Q	ualcomn	n® Gobi™ 400	0 chipse	et, PCIe Mini	i Card,		5	Supports TI	ninkVan	tage®	techn	ologies		
Courie		LTE,	EV-DO Rev.	A, GPR	S/WCDMA/H	SPA, GF	PS				5-watt AC						
Carrier					erizon®, or Sp required with			red with service	e provid	er T	ThinkPad F	loll Ćage	e (one	e-piece	e		
Modem	None		LIL (4G),	comiaci	required with	301 VICE	Provider			-	magnesiı EPEAT™ Si	ım tram	e)				
IEEE 1394	None)									ENERGY S	TAR® 5	.0-coi	mpliant	t I		
Bluetooth™			wireless				DUN BOY	4		(GREENGU	ARD® ce			-		
Ethernet Intel AMT			И Gigabit Ne lanagement		onnection (Le	wisville)), PHY, PCle	X1			RoHS-com						
Audio support						ome The	eater® v4 / st	ereo speakers,	1W x 2	2 / International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support							
								ombo audio/mi		2	4 nour x 7 during th	uay ° 10 e warrar	ntv ne	e supp eriod ¹²	ort		
Security	Powe	er-on pas	ssword, hard	disk pa	ssword, śupe				-	\vdash							
Security chip	Trust	ed Platfo	orm Module,	ICG 1.2	2-compliant	aat		CD indicates		F	or compat	ible acc	essor	ries, ple	ease		
Fingerprint read	iei somi	e. Authe Powe	er On Auther	pririt rea itication	der on paim r supports the	security	pe sensor, Li / chip	ED Indicator,		۱ ۲	go to O-T43						
Limited warranty	12 2-110							lahlo			or Lenovo				options,		
-mmeu wanani	, о-уег	ווע"ו /פוג	outtory adp	or repail	SCI VICE / SEI	vio c upç	nauco avall	iabic		p	olease go to	U O-IA S	neet				

ThinkPad® T430s 2355 (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA		tery	battéry	Intel		Preload	Ann Date (mm/yy)
2355-K7U	i7-3520M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 6205 ²⁸	WWAN upg	Finger	6	No	vPro	G	Win8 Pro64	10/12
2355-JQU	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	6	No	vPro	1	Win8 Pro64	10/12
2355-JCU	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	6	No	vPro		Win8 Pro64	10/12
2355-KNU	i5-3320M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	6	No	vPro	1	Win7 Pro64	12/12
2355-KMU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	6	No	vPro		Win7 Pro64	12/12

• A depot repair service 3-year limited warranty

Positioning	Premiere performance and ultraportability; two spindles	Preloaded operating system ²⁰
Processor	Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded;
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Edition (DVD±RW) - Windows 8 models • Lenovo Support • Lenovo Companion • Lenovo QuickLaunch
Keyboard TrackPoint® Touchpad ThinkLight™ Dimensions³	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions 14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm	 Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer
Weight ² Case material Battery - type Battery - life ¹⁰	Collin Co	(DVD±RW) - All models - Lenovo Solution Center - Password Manager Trisboord Manager
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i7 integrated model, switch via BIOS)	 ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
PCIe Mini Card	Two PCI Express Mini Card slots	Supports ThinkVantage® technologies
PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security chip	11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Author Tec fingerprint reader on page year equips concert LED indicator	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹² For compatible accessories, please
	r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 2 3-years/1-yr battery - depot repair service / service upgrades ²² available	go to O-T430-S sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430s 2355 (Optimus)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Optical or battery	Backlit key- board	Mini Card	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue-	terv	Glo Intel vPro	GMP	Pre-	Ann Date (mm/yy)
2355-HJU	i5-3320M	4GBx2	14.0" HD+	720p	180G SSD	DVD±RW	None	Intel 620528	WWAN upg	Finger	BT	6	vPro	G	Pro 64	06/12
2355-HHU	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	DVD±RW	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	G	Pro 64	06/12
2355-HGU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	DVD ±RW	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	G	Pro 64	06/12

- A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	 Password Manager Preloaded applications¹⁴ (only some listed) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	 Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager
Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5200M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort or Thunderbolt (i7 integrated models); supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Symantec [™] VIP Windows Live [™] Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort	
POILS POILS	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Securitý chip Fingerprint reade	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades ²² available	For compatible accessories, please go to O-T430-S sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet
Emiliou warranty	o-years/1 yr battery - depot repair service / service upgrades available	Picase go to o- in sileet

ThinkPad® T430s 2355 (Optimus) - Windows 8

Type-model	Processor	Memory	Wide- screen emory display Camera		Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Finger print reader	tery	Intel		,	Ann Date (mm/yy)
2355-K6U	i5-3320M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 620528	WWAN upg	Finger	6	vPro	G	Win8 Pro64	10/12
2355-JEU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	6	vPro		Win8 Pro64	10/12
2355-KPU	i7-3520M	4GBx1	14.0" HD+	720p	240G FDE SSD	Backlit	Intel 6205	WWAN upg	Finger	6	vPro		Win7 Pro64	12/12

• A depot repair service 3-year limited warranty

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	- Windows 7 models • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap • Microsoft® Office 2010 preloaded;
Widescreen display Camera	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5200M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort or Thunderbolt (i7 integrated models); supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Edition (DVD±RW) - Windows 8 models - Lenovo Support - Lenovo Companion - Lenovo QuickLaunch - Microsoft® Office 2013 preloaded; purchase product key to activate - PC Device Stage
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	 Lenovo Solution Center Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models)
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort	 Lenovo Cloud Storage by SugarSync Norton™ Internet Security (30 days of virus definitions) Skype™
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430-S sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T430s 2356 (Onsite)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	Optical or battery	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Car WWAN/ mSATA		Finger print reader					nn ate m/yy)
2356-HCU	i7-3520M	4GBx1	14 0" HD	720n	500G 7200	DVD+RW	None	Intel 6205 ²⁸	WWAN upg						-	16/12
									WWAN upg		_					
									WWAN upg		_					
2356-GUU	i7-3520M	4GBx1	14.0" HD+	720p	320G 7200	DVD±RW	None	Intel 6205	WWAN upg	None	None	6	vPro	GΡ	Pro 64 06)6/12
2356-GTU	i5-3320M	4GBx1	14.0" HD+	None	320G 7200	DVD±RW	None	Intel 6205	WWAN upg	None	Finger	6	vPro	GΡ	Pro 64 06)6/12
2356-GRU	i5-3320M	4GBx1	14.0" HD+	720p	128G SSD	DVD±RW	None	Intel 6205	WWAN upg	None	Finger	6	vPro	GΡ	Pro 64 06)6/12
2356-GPU	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	DVD±RW	None	Intel 6205	WWAN upg	None	None	6	vPro	GΡ	Pro 64 06)6/12
2356-GJU	i5-3320M	4GBx1	14.0" HD+	720p	128G SSD	DVD±RW	None	Intel 6205	WWAN upg	None	None	6	vPro	GΡ	Pro 64 06)6/12
2356-G3U	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	DVD±RW	None	Intel 6205	WWAN upg	None	Finger	6	vPro	GΡ	Pro 64 06)6/12
2356-G2U	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	DVD±RW	None	Intel 6205	WWAN upg	None	Finger	6	vPro	GΡ	Pro 64 06)6/12

- Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 Rescue and Recovery™ Password Manager
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Preloaded applications¹⁴ (only some listed) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models)
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded;
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i7 integrated model, switch via BIOS)	Edition (DVD±RW)
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Fingerprint reader	r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430-S sheet;
Limited warranty ¹²	² 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options please go to S-TA sheet

ThinkPad® T430s 2356 (Onsite) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Finger print reader	Bat- tery cells	Intel vPro	Global (G GMP (P)) Preload	Ann Date (mm/yy)
2356-LDU	i7-3520M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 620528	WWAN upg	Finger	6	vPro	GΡ	Win8 Pro64	10/12
2356-LAU	i5-3320M	4GBx1	14.0" HD+	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	6	vPro	GΡ	Win8 Pro64	10/12
2356-MHU	i5-3320M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	6	vPro		Win7 Pro64	12/12
2356-MGU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	6	vPro		Win7 Pro64	12/12

• Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Optical Bay battery Ultrabay SATA disk mSATA™ SSD Widescreen display Camera Graphics	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);	- Windows 7 models • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap • Adobe® Reader® • Microsoft® Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) • Windows 8 models • Lenovo Support
Keyboard TrackPoint® Touchpad ThinkLight™ Dimensions³ Weight² Case material Battery - type Battery - life¹0	1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA) 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions 14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center
Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i7 integrated model, switch via BIOS)	 Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to O-T430-S sheet;
Limited warranty ¹²	² 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430s 2356 (Optimus) - Onsite

Type-model Processor Memory	Wide- screen display Camera	Disk SATA a GB ⁸ rpm	Optical or battery	Backlit key- board	Mini Card	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue-		Intel		Pre-	Ann Date (mm/yy)
2356-H9U i5-3320M 4GBx2	14.0" HD+ 720p	180G SSD	DVD±RW	None	Intel 6205 ²⁸	WWAN upg	Finger	ВТ	6	vPro	GΡ	Pro 64	06/12
2356-H8U i5-3320M 4GBx1	14.0" HD+ 720p	320G 7200	DVD±RW	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	GΡ	Pro 64	06/12
2356-H7U i5-3320M 4GBx1	14.0" HD+ 720p	500G 7200	DVD±RW	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	GΡ	Pro 64	06/12

- Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64		
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™		
Optical Bay battery Ultrabay SATA disk	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Preloaded applications 14 (only some listed) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery		
mSATA™ SSD	None Comp. 14.0" (255mm) HD (1265v769) color opti glave LED backlight	• Access Connections TM		
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio	Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager		
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo Cloud Storage by SugarSync		
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5200M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort or Thunderbolt (i7 integrated models); supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator		
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate		
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)		
Chipset	Mobile Intel QM77 Express Chipset			
ExpressCard Smart Card Read	One slot (ExpressCard/34) None			
Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort			
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	Supports ThinkVantage® technologies		
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support		
Security chip	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	for compatible accessories, please go to O-T430-S sheet;		
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet		

ThinkPad® T430s 2356 (Optimus) - Onsite (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	Backlit key- board	PCle Mini Card WLAN	WWAN/	Finger print reader	tery	Intel		a) Preload	Ann Date (mm/yy)
2356-LCU	i5-3320M	4GBx1	14.0" HD+	720p	180G SSD	None	Intel 6205 ²⁸	WWAN upg	Finger	6	vPro	GΡ	Win8 Pro64	10/12
2356-LBU	i5-3320M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	6	vPro	GΡ	Win8 Pro64	10/12
2356-L9U	i7-3520M	4GBx1	14.0" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	6	vPro		Win8 Pro64	10/12
2356-MJU	i7-3520M	4GBx1	14.0" HD+	720p	240G FDE SSD	Backlit	Intel 6205	WWAN upg	Finger	6	vPro		Win7 Pro64	12/12

• Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Optical Bay battery Ultrabay SATA disk mSATA™ SSD Widescreen	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight,	- Windows 7 models • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager • Lenovo SimpleTap • Adobe® Reader® • Microsoft® Office 2010 preloaded;
display	200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD Movie Factory® Lenovo
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5200M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort or Thunderbolt (i7 integrated models); supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	 Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm 6-cell: from 3.96 lb (1.79kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr	 All models Lenovo Solution Center Password Manager ThinkVantage System Update Fingerprint Software (fingerprint
Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort	models) • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security (30 days of virus definitions) • Skype™
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T430-S sheet;
Limited warranty ¹²	² 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430s Accessories

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Memory 2GB PC3-12800 DDR3 SODIMM 4GB PC3-12800 DDR3 SODIMM 8GB PC3-12800 DDR3 SODIMM	0A65722 ann 06/05/12 0A65723 ann 06/05/12 0A65724 ann 06/05/12	Batteries ThinkPad Battery 81+ (6-cell) 0A36309 ann 06/05/12 ThinkPad Battery 43 (3-cell, bay) ⁴² 0A36310 ann 06/05/12 42 Used in Ultrabay Slim bay.
Ultrabay Slim 9.5mm Serial ATA Hard Drive 9.5mm Bay Adapter III DVD ROM Ultrabay Slim Drive III	43N3412 ann 06/23/09 0A65628 ann 06/05/12	ThinkPad External Battery Charger ⁴⁴ 40Y7625 ann 09/20/05 ⁴⁴ Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the system. More information at www.lenovo.com/alldaycomputing
DVD Burner Ultrabay Slim Drive III	0A65626 ann 06/05/12	ThinkPad 65W AC Adapter ⁴⁵ 40Y7696 ann 01/05/06
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive 500GB 5400rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹	0B47309 ann 12/11/12 0A65631 ann 06/05/12	45 Only compatible with the integrated graphics models. ThinkPad 90W AC Adapter 90W Ultraslim AC/DC Combo Adapter 40Y7659 ann 09/20/05 41R4493 ann 09/22/09
500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹	0A65632 ann 06/05/12	More info at www.lenovo.com/support/poweradapters
320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm Self Encrypting (SED) OPAL Capable HDD ⁴¹ 128GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹	0A65635 ann 06/05/12 0A65636 ann 08/21/12 0A65629 ann 06/05/12	Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493 •iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07 •Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09
180GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹ 256GB 2.5" SATA 6.0Gb/s OPAL-capable SSD ⁴¹ ⁴¹ Can be used as the main HDD or with	0A65630 ann 06/05/12 0A65620 ann 05/15/12	More information at www.lenovopowertips.com Carrying Cases
Serial ATA Hard Drive 9.5mm Bay Adapter III 43I	•	Up to 14" widescreen models:
USB 2.0 Portable 500GB Hard Drive USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive	45K1690 ann 05/26/09 0A65619 ann 11/29/11 0A65616 ann 11/29/11	ThinkPad 14W Case Sleeve 57Y4294 ann 03/16/10 ThinkPad Ultralight Backpack 0B47306 ann 12/11/12 ThinkPad Ultralight Topload 0B47307 ann 12/11/12
USB 3.0 Secure 1TB Hard Drive Lenovo Slim USB Portable DVD Burner Wireless WAN (Mini PCI Express)	0A65621 ann 08/28/12 0A33988 ann 06/14/11	Up to 15.6" widescreen models: Lenovo Messenger Max Lenovo Performance BackPack 41U5253 ann 05/01/07 41U5254 ann 05/01/07
Only WWAN upgradable models: ThinkPad Gobi™ 3000 Mobile Broadband ThinkPad Gobi 4000 Mobile Broadband - AT&T®	0A36185 ann 04/12/11 0A36320 ann 06/05/12	ThinkPad Business Topload Case ThinkPad Business Backpack ThinkPad Deluxe Expander Case 43R2476 ann 05/13/08 43R2482 ann 05/13/08 43R2478 ann 05/13/08
ThinkPad Gobi 4000 Mobile Broadband - Verizon® ThinkPad Expansion		ThinkPad Executive Leather Case 43R2480 ann 05/13/08 Lenovo Sport Backpack - Red 0A33896 ann 02/28/12 Lenovo Sport Slimcase - Red 0A33897 ann 02/28/12
Lenovo® Essential Notebook Stand ThinkPad Port Replicator Series 3 with USB 3.0 ThinkPad Mini Dock Series 3 - 90W	45J9292 ann 05/12/09 433615W ann 06/05/12 433710U ann 06/23/09	Lenovo Sport Messenger - Red 0A33898 ann 02/28/12 More information at www.lenovo.com/support/cases
ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W TP Mini Dock Plus Series 3 w/ USB 3.0 - 90W TP Mini Dock Plus Series 3 w/ USB 3.0 - 170W	433715U ann 06/05/12 433815U ann 06/05/12 433835U ann 06/05/12	Monitors ThinkVision® L1711p 17" (VGA, DVI-D) 5047HB2 ann 10/20/09 ThinkVision L1900p 19" (VGA, DVI-D) 4431HE1 ann 11/11/08 ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) 92448MB6 ann 09/13/11
Keyboard TrackPoint Cap Collection Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad Preferred Pro USB Keyboard	73P2698 ann 12/16/03 0A34032 ann 04/05/11 33L3225 ann 05/01/00 73P5220 ann 06/21/05	ThinkVision L2250p Wide 22" (VGA, DVI-D) 2572HB6 ann 10/20/09 ThinkVision L2251x Wide 22" (VGA, DP) 2578HB6 ann 10/20/09 ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D) 2572MB6 ann 09/13/11 ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) 2572MB6 ann 09/13/11 39 DisplayPort cable is not included.
Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard	73P2620 ann 03/23/04 55Y9003 ann 08/18/09 73P4730 ann 02/22/05	ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0) ThinkVision LT1421 Wide 14" Mobile Monitor
Lenovo USB Smartcard Keyboard 52 Wireless via 2.4GHz technology using a micro-	51J0155 ann 03/24/09	with Protective Case (USB 2.0) 1452DB6 ann 08/16/11
	5.25 GGB 10001V01.	More information at www.lenovo.com/support/monitors www.lenovo.com/support/thinkpad/optimus-monitors
Mouse Lenovo Optical Mouse (USB) Lenovo Laser Mouse (USB) ThinkPad USB Laser Mouse Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical) ThinkPad Bluetooth Laser Mouse	06P4069 ann 05/21/03 41U3074 ann 01/23/07 57Y4635 ann 12/15/09 31P7405 ann 08/27/02 31P7410 ann 06/04/02 0A36407 ann 06/26/12	Monitor Accessories ⁴⁶ Lenovo USB 3.0 to DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable UB47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12
Lenovo Wireless Laser Mouse ⁵² Multimedia ThinkPad In-Ear Headphones with microphone	0A36188 ann 12/20/11	Kensington MicroSaver Cable Lock 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock 45K1620 ann 09/30/08 Lenovo Security Cable Lock 57Y4303 ann 08/24/10
·	57Y4488 ann 01/07/10	Lenovo Easy Réach Monitor Stand 55Y9258 ann 09/22/09 46 Compatible on selected Lenovo and ThinkVision monitors.
Modem USB 2.0 Lenovo Modem	43R1814 ann 02/26/08	More information at www.lenovo.com/support/monitoraccessories
Security 3M 14.0W Privacy Filter from Lenovo Kensington® MicroSaver® Cable Lock Kensington Twin Head Cable Lock	0A61769 ann 04/05/11 73P2582 ann 12/29/03 45K1620 ann 09/30/08	For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories
Lenovo Security Cable Lock USB Gemplus GemPC Smart Card Reader	57Y4303 ann 08/24/10 41N3040 ann 02/21/06	www.lenovo.com/support/accessories Product specifications on Lenovo Support www.lenovo.com/accessoriesguide
		Option Compatibility Matrix (OCM) and accessory brochures
		www.lenovoquickpick.com An Options Compatibility Configurator for Lenovo systems





Lenovo® ThinkPad T430u



Lenovo ThinkPad T430u



Lenovo ThinkPad T430u



Lenovo ThinkPad T430u



Lenovo ThinkPad T430u



Lenovo ThinkPad T430u

ThinkPad® T430u 3351 (TopSeller) - Windows 8

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Ann Date (mm/yy)
><	3351-8EU	i5-3317U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	None	ВТ	3	Win7 Pro64	10/12
	3351-7BU	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	Intel 2230	24GB mSATA	Finger	BT	3	Win8 Pro64	10/12
><	3351-7AU	i5-3317U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	Finger	BT	3	Win8 Pro64	10/12
	3351-B4U	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	Intel 2230	24GB mSATA	Finger	BT	3	Win7 Pro64	02/13
	3351-B3U	i5-3337U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	None	BT	3	Win8 Pro64	02/13
	3351-B2U	i5-3337U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	None	BT	3	Win7 Pro64	02/13
><	3351-99U	i5-3337U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	None	BT	3	Win7 Pro64	02/13

• Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning Processor	Mainstream Ultrabook™; one spindle Intel® Core™ i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology Intel Core i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	listed)
Optical SATA disk	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager
mSATA™ SSD	mSATA Solid State Drive (SSD), via PCIe Mini Card slot	Lenovo SimpleTap
Widescreen display Camera	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via HDMI™ or Mini DisplayPort supports three independent displays; Maximum external resolution: 2560x1600 (Mini-DisplayPort or HDMI)@60Hz	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Microsoft® Office 2013 preloaded; purchase product key to activate All models Lenovo Solution Center
Dimensions ³ Weight ² Case material Battery - type	14.0W" (WxDxH): 13.39" x 9.29" x 0.83"; 340mm x 236mm x 21mm 3-cell: from 4.08 lb (1.85kg) Display cover: Aluminum; Bottom: Glass-Fiber Reinforced Plastic Integrated Li-Polymer 3-cell	Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage
Battery - life ¹⁰	3-cell (47Whr): up to 7.1 hr	by SugarSync ■ Norton™ Internet Security
Chipset	Mobile Intel UM77 Express Chipset	(30 days of virus definitions)
ExpressCard Smart Card read	None None	• Škype ^{ŤM}
Multicard reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, external monitor (Mini DisplayPort, HDMI), ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2,	
	Wi-Fi + Bluetooth combo adapter	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem	None None None	65-watt AC adapter ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating
IEEE 1394 Bluetooth™ Ethernet	None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection	ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Intel AMT Audio support	None HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack Power-on password, bard disk password, supervisor password, sequrity keybole	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security Security chip Fingerprint reade	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-T430-U sheet;
Limited warrantv12	² 1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet
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ThinkPad® T430u 8614 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Ann Date (mm/yy)
8614-45U	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	TP 11a/b/g/n	None	Finger	BT	3	Pro 64	08/12
8614-3KU	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	TP 11a/b/g/n	None	Finger	BT	3	Pro 64	08/12
8614-3JU	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	Finger	BT	3	Pro 64	08/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Ready to install applications ¹⁴ (only some listed)
Optical SATA disk mSATA™ SSD	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™ Some: mSATA Solid State Drive (SSD), via PCle Mini Card slot	 Rescue and Recovery™ Password Manager Preloaded applications¹⁴ (only some listed) Lenovo® Solution Center
Widescreen display Camera	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via HDMI™ or Mini DisplayPort supports three independent displays; Maximum external resolution: 2560x1600 (Mini-DisplayPort or HDMI)@60Hz	 Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	by SugarSync • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.39" x 9.29" x 0.83"; 340mm x 236mm x 21mm 3-cell: from 4.08 lb (1.85kg) Display cover: Aluminum; Bottom: Glass-Fiber Reinforced Plastic Integrated Li-Polymer 3-cell 3-cell (47Whr): up to 7.1 hr	 Àdobe[®] Reader[®] Skype[™] for Windows Evernote[®] Intel Small Business Advantage RapidBoot HDD Accelerator Symantec[™] VIP
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel UM77 Express Chipset None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, external monitor (Mini DisplayPort, HDMI), ethernet (RJ-45)	 Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	None None None None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Securitý chip Fingerprint reade	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-T430-U sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹³	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

See footnotes for more detailed information US model(s) announced August 28, 2012

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ThinkPad® T430u 8614 (TopSeller) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Ann Date (mm/yy)
8614-8BU	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	Finger	ВТ	3	Win7 Pro64	10/12
8614-6WU	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	Intel 2230	None	Finger	BT	3	Win8 Pro64	10/12
8614-6VU	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	Intel 2230	24GB mSATA	Finger	BT	3	Win8 Pro64	10/12
8614-ANU	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	Intel 2230	None	Finger	BT	3	Win7 Pro64	02/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning Processor	Mainstream Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit
Optical SATA disk	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Preloaded applications ⁵ (only some listed)
mSATA™ SSD	Some: mSATA Solid State Drive (SSD), via PCle Mini Card slot	Windows 7 models Lenovo® Message Center Plus
Widescreen display Camera	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via HDMI™ or Mini DisplayPort supports three independent displays; Maximum external resolution: 2560x1600 (Mini-DisplayPort or HDMI)@60Hz	 Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate
Keyboard TrackPoint [®] Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded;
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.39" x 9.29" x 0.83"; 340mm x 236mm x 21mm 3-cell: from 4.08 lb (1.85kg) Display cover: Aluminum; Bottom: Glass-Fiber Reinforced Plastic	 Microsoft Office 2013 preloaded, purchase product key to activate All models Lenovo Solution Center
Battery - type Battery - life ¹⁰	Integrated Li-Polymer 3-cell 3-cell (47Whr): up to 7.1 hr	Password ManagerThinkVantage System Update
Chipset ExpressCard Smart Card read Multicard reader Ports PCIe Mini Card	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, external monitor (Mini DisplayPort, HDMI), ethernet (RJ-45) Two PCI Express Mini Card slots	 Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Norton™ Internet Security (30 days of virus definitions) Skype™
PCIe WLAN⁴	Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + Bluetooth combo adapter	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	None None None None None Solution None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack	65-watt AC adapter ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security Security chip Fingerprint reade	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-T430-U sheet;
Limited warranty ¹	² 3-years /1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430u 8614 (Optimus) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	Bat- tery cells	Preload	Ann Date (mm/yy)
≈ 8614-8CU	i7-3517U	4GBx1	14.0" HD	720p	128G SSD	TP 11a/b/g/n	None	Finger	BT	3	Win7 Pro64	10/12
8614-6YU	i7-3517U	4GBx1	14.0" HD	720p	128G SSD	Intel 2230	None	Finger	BT	3	Win8 Pro64	10/12
8614-6XU	i7-3517U	4GBx1	14.0" HD	720p	500G 7200	Intel 2230	24GB mSATA	Finger	BT	3	Win8 Pro64	10/12
8614-ARU	i7-3537U	4GBx1	14.0" HD	720p	500G 7200	Intel 2230	24GB mSATA	Finger	BT	3	Win7 Pro64	02/13
8614-AQU	i7-3537U	4GBx1	14.0" HD	720p	500G 7200	Intel 2230	24GB mSATA	Finger	BT	3	Win8 Pro64	02/13
8614-APU	i7-3537U	4GBx1	14.0" HD	720p	128G SSD	Intel 2230	None	Finger	BT	3	Win8 Pro64	02/13
8614-8WU	i7-3537U	4GBx1	14.0" HD	720p	128G SSD	TP 11a/b/g/n	None	Finger	BT	3	Win7 Pro64	02/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning Processor	Mainstream Ultrabook™; one spindle Intel® Core™ i7-3517U processor (2 cores, 1.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.0GHz), HT technology Intel Core i7-3537U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.1GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	- <i>Some:</i> Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Optical SATA disk mSATA™ SSD	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™ Some: mSATA Solid State Drive (SSD), via PCle Mini Card slot	listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™
Widescreen display Camera	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader®
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA GeForce® GT 620M, PCI Express® x16, 1GB memory, external digital monitor support via HDMI™ or Mini DisplayPort supports three independent displays; Maximum external resolution: 2560x1600 (Mini-DisplayPort or HDMI)@60Hz	Microsoft® Office 2010 preloaded; purchase product key to activate Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Microsoft® Office 2013 preloaded; purchase product key to activate All models Lenovo Solution Center
Dimensions ³ Weight ² Case material Battery - type	14.0W" (WxDxH): 13.39" x 9.29" x 0.83"; 340mm x 236mm x 21mm 3-cell: from 4.12 lb (1.87kg) Display cover: Aluminum; Bottom: Glass-Fiber Reinforced Plastic Integrated Li-Polymer 3-cell	Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync
Chipset ExpressCard Smart Card read Multicard reader Ports	3-cell (47Whr): up to 6.6 hr Mobile Intel UM77 Express Chipset None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, external monitor (Mini DisplayPort, HDMI), ethernet (RJ-45)	Norton™ Internet Security (30 days of virus definitions) Skype™
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + Bluetooth combo adapter	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	None None None None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-T430-U sheet; For Lenovo service ²² upgrade options.
Limited warranty ¹²	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	tery	Global (G) GMP (P)) Preload	Ann Date (mm/yy)
3352-2SU	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	TP 11a/b/g/n	None	Finger	BT	3	G	Pro 64	08/12
3352-2NU	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	Finger	BT	3		Pro 64	08/12

- A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (010PKR)

Positioning Processor	Mainstream Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Ready to install applications ¹⁴ (only some listed)
Optical SATA disk	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Rescue and Recovery™ Password Manager Preloaded applications¹⁴ (only some listed)
mSATA™ SSD Widescreen display Camera	Some: mSATA Solid State Drive (SSD), via PCIe Mini Card slot 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via HDMI™ or Mini DisplayPort supports three independent displays; Maximum external resolution: 2560x1600 (Mini-DisplayPort or HDMI)@60Hz	Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	by SugarSync • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.39" x 9.29" x 0.83"; 340mm x 236mm x 21mm 3-cell: from 4.08 lb (1.85kg) Display cover: Aluminum; Bottom: Glass-Fiber Reinforced Plastic Integrated Li-Polymer 3-cell 3-cell (47Whr): up to 7.1 hr	Àdobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator Symantec™ VIP
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel UM77 Express Chipset None	Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	None None None None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Securitý chip Fingerprint reade	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-T430-U sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹³	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

See footnotes for more detailed information US model(s) announced August 28, 2012

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ThinkPad® T430u 3352 (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	tery	Global (G) GMP (P)) Preload	Ann Date (mm/yy)
3352-3CU	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	Intel 2230	None	Finger	BT	3	G	Win8 Pro64	10/12
3352-33U	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	Intel 2230	24GB mSATA	Finger	BT	3		Win8 Pro64	10/12
3352-3TU	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	TP 11a/b/g/n	None	Finger	BT	3		Win7 Pro64	12/12
3352-3SU	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/n	24GB mSATA	Finger	BT	3		Win7 Pro64	12/12

• A depot repair service 3-year limited warranty

Positioning Processor	Mainstream Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	downgrade rights in Windows 8 Pro 64-bit
Optical SATA disk	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	Preloaded applications ⁵ (only some listed)
mSATA™ SSD	Some: mSATA Solid State Drive (SSD), via PCIe Mini Card slot	- Windows 7 models - Lenovo® Message Center Plus
Widescreen display Camera	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via HDMI™ or Mini DisplayPort supports three independent displays; Maximum external resolution: 2560x1600 (Mini-DisplayPort or HDMI)@60Hz	Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Windows 8 models
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded;
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.39" x 9.29" x 0.83"; 340mm x 236mm x 21mm 3-cell: from 4.08 lb (1.85kg) Display cover: Aluminum; Bottom: Glass-Fiber Reinforced Plastic	purchase product key to activate - All models - Lenovo Solution Center - Password Manager
Battery - type Battery - life ¹⁰	Integrated Li-Polymer 3-cell 3-cell (47Whr): up to 7.1 hr	ThinkVantage System Update Fingerprint Software (fingerprint)
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel UM77 Express Chipset None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, external monitor (Mini DisplayPort, HDMI), ethernet (RJ-45)	models) • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security (30 days of virus definitions) • Skype™
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + Bluetooth combo adapter	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	None None None None None None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant rauthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-T430-U sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCIe Mini Car WWAN/ mSATA	d Finger print reader	Blue- tooth	Bat- C tery cells	Global (G) GMP (P)	Preload	Ann Date (mm/yy)
6273-2SU	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	TP 11a/b/g/n	n None	Finger	ВТ	3	GΡ	Pro 64	08/12

- Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Mainstream Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Ready to install applications ¹⁴ (only some listed)
Optical SATA disk	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	 Rescue and Recovery[™] Password Manager Preloaded applications¹⁴ (only some
mSATA™ SSD	None	listed) Lenovo® Solution Center
Widescreen display Camera	14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via HDMI™ or Mini DisplayPort supports three independent displays; Maximum external resolution: 2560x1600 (Mini-DisplayPort or HDMI)@60Hz	 Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions)
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.39" x 9.29" x 0.83"; 340mm x 236mm x 21mm 3-cell: from 4.08 lb (1.85kg) Display cover: Aluminum; Bottom: Glass-Fiber Reinforced Plastic	 Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage
Battery - type Battery - life ¹⁰	Integrated Li-Polymer 3-cell 3-cell (47Whr): up to 7.1 hr	 RapidBoot HDD Accelerator Symantec[™] VIP
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel UM77 Express Chipset None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, external monitor (Mini DisplayPort, HDMI), ethernet (RJ-45)	 Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter None	Supports ThinkVantage® technologies
Carrier Modem IEEE 1394	None None None	65-watt AC adapter ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating
Bluetooth™ Ethernet Intel AMT	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None	ENERGY STAR® 5.Ŏ-compliant GREENGUARD® certified RoHS-compliant
Audio support Security	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack Power-on password, hard disk password, supervisor password, security keyhole	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security chip Fingerprint reade	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-T430-U sheet;
Limited warranty ¹	² 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430u 6273 (Onsite) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Finger print reader	Blue- tooth	Bat- tery cells	Global (G) GMP (P)	Preload	Ann Date (mm/yy)
6273-23U	i5-3427U	4+2GB	14.0" HD	720p	500G 7200	TP 11a/b/g/r	n None	Finger	BT	3	GΡ	Win8 Pro64	10/12
6273-24U	i5-3427U	8GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/r	n None	Finger	BT	3	GΡ	Win8 Pro64	10/12
6273-25U	i5-3427U	8GBx1	14.0" HD	720p	1T 5400	TP 11a/b/g/r	n None	Finger	BT	3	GΡ	Win8 Pro64	10/12
6273-26U	i5-3427U	4GBx1	14.0" HD	720p	500G 7200	TP 11a/b/g/r	n None	Finger	BT	3	GΡ	Win8 Pro64	10/12
6273-3CU	i5-3427U	4GBx1	14.0" HD	720p	128G SSD	Intel 2230	None	Finger	BT	3	GΡ	Win8 Pro64	10/12
6273-3DU	i5-3337U	2GBx1	14.0" HD	720p	128G SSD	WLAN upg	None	Finger	No	3	GΡ	Win8 Pro64	03/13

• Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	Mainstream Ultrabook™; one spindle Intel® Core™ i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,	Preloaded operating system ²⁰ - Windows® 8 Pro 64-bit
	DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology	Preloaded applications ⁵ (only some listed)
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery
Optical SATA disk	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™	 Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader®
mSATA™ SSD	None	 Microsoft® Office 2010 preloaded;
Widescreen display Camera	14.0 " (355mm) HD (1366x768) color , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	purchase product key to activate - Windows 8 models • Lenovo Support
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via HDMI™ or Mini DisplayPort supports three independent displays; Maximum external resolution: 2560x1600 (Mini-DisplayPort or HDMI)@60Hz	Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 All models Lenovo Solution Center Password Manager ThinkVantage System Update
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.39" x 9.29" x 0.83"; 340mm x 236mm x 21mm 3-cell: from 4.08 lb (1.85kg) Display cover: Aluminum; Bottom: Glass-Fiber Reinforced Plastic	Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync
Battery - type Battery - life ¹⁰	Integrated Li-Polymer 3-cell 3-cell (47Whr): up to 7.1 hr	 Norton™ Internet Security (30 days of virus definitions) Skype™
Chipset ExpressCard Smart Card read Multicard reader Ports	Mobile Intel UM77 Express Chipset None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, external monitor (Mini DisplayPort, HDMI), ethernet (RJ-45)	Сокурс
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: Wireless LAN upgradable Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + Bluetooth combo adapter	
PCIe WWAN	None	Supports ThinkVantage® technologies
Carrier Modem	None None	65-watt AC adapter
IEEE 1394	None	ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating
Bluetooth™ Ethernet	Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection	ENERGY STAR® 5.0-compliant
Intel AMT	None	GREENGUARD® certified RoHS-compliant
Audio support Security	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack Power-on password, hard disk password, supervisor password, security keyhole	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security chip Fingerprint reade	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator, supports the security chip	For compatible accessories, please go to O-T430-U sheet;
Limited warranty ¹²	² 3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T430u Accessories

ThinkPad® T430u Accessories		Persona	ai Systems Heterence (PSHEF)
Memory 2GB PC3-12800 DDR3 SODIMM 4GB PC3-12800 DDR3 SODIMM	0A65722 ann 06/05/12 0A65723 ann 06/05/12	Power Adapters ThinkPad 65W AC Adapter 90W Ultraslim AC/DC Combo Adapter	40Y7696 ann 01/05/06 41R4493 ann 09/22/09
8GB PC3-12800 DDR3 SODIMM	0A65724 ann 06/05/12	More info at www.lenovo.com/support/powera	dapters
Storage and removable storage USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive USB 3.0 Secure 1TB Hard Drive	0A65619 ann 11/29/11 0A65616 ann 11/29/11 0A65621 ann 08/28/12	Charging tips for 90W Ultraslim AC/DC Combo A •iPod and iPhone Charge Tip (L10a) •Generic Micro USB charge tip (L18) More information at www.lenovopowertips.con	41R4481 ann 12/18/07 41R4490 ann 01/06/09
Lenovo® Slim USB Portable DVD Burner	0A33988 ann 06/14/11	0	
ThinkPad Expansion Lenovo Essential Notebook Stand USB 2.0 Port Replicator with Digital Video ThinkPad USB 3.0 Dock	45J9292 ann 05/12/09 0A33942 ann 03/22/11 0A33970 ann 05/15/12	Carrying Cases Up to 14" widescreen models: ThinkPad 14W Case Sleeve ThinkPad Ultralight Backpack ThinkPad Ultralight Topload 14W Ultrabook Topload & Standard Sleeve Set	57Y4294 ann 03/16/10 0B47306 ann 12/11/12 0B47307 ann 12/11/12 Black
Keyboard TrackPoint Cap Collection	73P2698 ann 12/16/03	1444 Ollabook Topioad & Standard Siceve Set	0B95750 ann 08/07/12
Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad	0A34032 ann 04/05/11 33L3225 ann 05/01/00	14W Ultrabook Topload & Standard Sleeve Set -	Brown 0B95751 <i>ann 08/07/12</i>
ThinkPad USB Keyboard with TrackPoint 52 Wireless via 2.4GHz technology using a micro Mouse	55Y9003 ann 08/18/09 o-size USB receiver.	Up to 15.6" widescreen models: ThinkPad Business Topload Case ThinkPad Business Backpack Lenovo Sport Backpack - Red	43R2476 ann 05/13/08 43R2482 ann 05/13/08 0A33896 ann 02/28/12
ThinkPad Travel Mouse (USB, Optical) ThinkPad Bluetooth Laser Mouse	31P7410 ann 06/04/02 0A36407 ann 06/26/12	Lenovo Sport Slimcase - Red Lenovo Sport Messenger - Red	0A33897 ann 02/28/12 0A33898 ann 02/28/12
Lenovo Wireless Laser Mouse ⁵²	0A36188 ann 12/20/11	More information at www.lenovo.com/support/	
Multimedia			
ThinkPad In-Ear Headphones with microphone Security Kensington® MicroSaver® Cable Lock	57Y4488 ann 01/07/10 73P2582 ann 12/29/03	Monitors ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0) ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Case (USB 2.0)	1452DS6 ann 08/16/11 1452DB6 ann 08/16/11
Kensington Twin Head Cable Lock Lenovo Security Cable Lock	45K1620 ann 09/30/08 57Y4303 ann 08/24/10	More information at www.lenovo.com/support/	
Lenovo decumy dable Lock	37 14000 ami 00/24/10	www.lenovo.com/support/thinkpad/optimus-n	
		Monitor Accessories ⁴⁶ Lenovo USB 3.0 to DVI/VGA Monitor Adapter Lenovo HDMI to HDMI Monitor Cable Lenovo HDMI to VGA Monitor Cable Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Kensington MicroSaver Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock ⁴⁶ Compatible on selected Lenovo and ThinkVis	0B47072 ann 08/14/12 0B47070 ann 05/22/12 0B47069 ann 06/26/12 0A36536 ann 05/17/11 0B47091 ann 07/24/12 73P2582 ann 12/29/03 45K1620 ann 09/30/08 57Y4303 ann 08/24/10 ion monitors.
		More information at www.lenovo.com/support/	
		For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories	
		www.lenovo.com/support/accessories Product specifications on Lenovo Support	
		www.lenovo.com/accessoriesquide	

www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

ThinkPad_®



Lenovo® ThinkPad T431s



Lenovo ThinkPad T431s



Lenovo ThinkPad T431s



Lenovo ThinkPad T431s



Lenovo ThinkPad T431s



Lenovo ThinkPad T431s with ThinkPad Mini Dock Series 3 with USB 3.0 - 90W 433715U

ThinkPad® T431s Transactional (20AA)

			screen		Disk SATA	Backlit key-				print	tery	Intel	Intel		Ann Date
Type-model	Processor	Memory	display	Camera	GB ⁸ rpm	board	WLAN	SSD	Carrier	reader	cells	AMT	vPro	Preload	(mm/yy)
20AA000SUS	i7-3687U	4+4GB	14.0" HD+	720p	240G FDE SSD	Backlit	Intel 623528	3 WWAN upg	None	Finger	3	iAMT	vPro	Win7 Pro6	4 03/13
20AA000TUS	i7-3687U	4+4GB	14.0" HD+	720p	240G FDE SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	iAMT	vPro	Win8 Pro6	4 03/13
20AA000KUS	i5-3437U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger	3	iAMT	vPro	Win8 Pro6	4 03/13
20AA000JUS	i5-3337U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	None	No	Win7 Pro6	4 03/13
20AA000UUS	i7-3687U	4+4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	iAMT	vPro	Win8 Pro6	4 03/13
20AA000GUS	i5-3337U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger	3	None	No	Win8 Pro6	4 03/13
20AA000PUS	i5-3437U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger	3	iAMT	vPro	Win7 Pro6	4 03/13
20AA000QUS	i7-3687U	4+4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger	3	iAMT	vPro	Win7 Pro6	4 03/13
20AA000VUS	i7-3687U	4+4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger	3	iAMT	vPro	Win8 Pro6	4 03/13
20AA000LUS	i5-3437U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	iAMT	vPro	Win8 Pro6	4 03/13
20AA000BUS	i5-3337U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger	3	None	No	Win7 Pro6	4 03/13
20AA000MUS	i5-3437U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	iAMT	vPro	Win7 Pro6	4 03/13
20AA000RUS	i7-3687U	4+4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	iAMT	vPro	Win7 Pro6	4 03/13
20AA000HUS	i5-3337U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	None	No	Win8 Pro6	4 03/13
20AA000XUS	i5-3337U	4GB	14.0" HD+	720p	500G 7200	None	Intel 6235	24GB SSD	None	Finger	3	None	No	Win7 Pro6	4 03/13
20AA000NUS	i5-3437U	4GB	14.0" HD+	720p	500G 7200	None	Intel 6235	24GB SSD	None	Finger	3	iAMT	vPro	Win7 Pro6	4 04/13

• A depot repair service 3-year limited warranty

Thin and light enterprise-class Ultrabook™; one spindle Intel® Core™ i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000 DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology Intel Core i5-3437U processor (2 cores, 1.90GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology Intel Core i7-3687U processor (2 cores, 2.10GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit - Preloaded applications ⁵ (only some
Memory 12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket	listed)
Optical SATA disk Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ M.2 SSD Some: M.2 Solid State Drive (SSD), via M.2 Card slot	- Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™ - ThinkVantage Power Manager - Lenovo SimpleTap
Videscreen display Camera 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, low light sensitive, face tracking, fixed focus	Lenovo Simple lap Adobe® Reader® Windows 8 models Lenovo Support
Graphics Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Lenovo Companion Lenovo QuickLaunch All models Lenovo Solution Center
Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch None	Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models)
Dimensions ³ Veight ² Case color Case material Battery - life ¹⁰ Battery - life ¹⁰ 14.0W" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 3-cell: from 3.6 lb (1.63kg) Graphite Black Display cover: Carbon-fiber / Glass-fiber hybrid; Base: Magnesium alloy Integrated Li-Polymer 3-cell (47Whr), HW Authentication MobileMark 2007: Windows 7: up to 9.0 hr MobileMark 2012: Windows 7: up to 5.9 hr; Windows 8: up to 6.4 hr	Lenovo Cloud Storage by SugarSync Microsoft® Office 2013 preloaded; purchase product key to activate Skype™ Amazon Kindle Nitro Pro PC Device Stage
Chipset	Evernote
PCIe WLAN ⁴ 11a/b/g/n, M.2 Card, Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT combo adapter Some: Wireless WAN upgradable	Supports ThinkVantage® technologies
Carrier BluetoothTM Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Ethernet Intel 82579LM Gigabit Network Connection (Hanksville), PHY, PCle x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack Security Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator,	45-watt AC adapter EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Power On Authentication, supports the security chip imited warranty ¹² 3-years /1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T431s Relationship (20AC)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	Backlit key- board	M.2 Card WLAN	M.2 Card WWAN/ SSD	Carrier	Finger print reader	tery		Preload	Ann Date (mm/yy)
20AC000PUS			14.0" HD+		180G SSD		Intel 6235 ²⁸		None				Win7 Pro64	
20AC000FUS			14.0" HD+	- 1-	240G FDE SSD		Intel 6235	WWAN upg					Win7 Pro64	
20AC000MUS		_	14.0" HD+		180G SSD		Intel 6235	WWAN upg	None	9 -	_		Win7 Pro64	
20AC000EUS					240G FDE SSD		Intel 6235	WWAN upg					Win8 Pro64	
20AC0006US		_	14.0" HD+		180G SSD		Intel 6235	WWAN upg		None			Win8 Pro64	
20AC0005US	i5-3437U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	None	3	vPro	Win8 Pro64	03/13
20AC000BUS	i5-3437U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	vPro	Win8 Pro64	03/13
20AC000DUS	i7-3687U	4+4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	vPro	Win8 Pro64	03/13
20AC000CUS	i7-3687U	4+4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger	3	vPro	Win8 Pro64	03/13
20AC000HUS	i7-3687U	4+4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger	3	vPro	Win7 Pro64	03/13
20AC000KUS	i7-3687U	4+4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger	3	vPro	Win7 Pro64	03/13
20AC000RUS	i5-3437U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	None	3	vPro	Win7 Pro64	03/13

• A depot repair service 3-year limited warranty

Positioning Processor	Thin and light enterprise-class Ultrabook™; one spindle Intel® Core™ i5-3437U processor (2 cores, 1.90GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology Intel Core i7-3687U processor (2 cores, 2.10GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Optical SATA disk	None Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™	listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery
M.2 SSD Widescreen display Camera	Some: M.2 Solid State Drive (SSD), via M.2 Card slot 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, low light sensitive, face tracking, fixed focus	Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader®
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch All models
Keyboard UltraNav™ ThinkLight™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch None	Lenovo Solution Center Password Manager ThinkVantage System Update
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 3-cell: from 3.6 lb (1.63kg) Graphite Black Display cover: Carbon-fiber / Glass-fiber hybrid; Base: Magnesium alloy Integrated Li-Polymer 3-cell (47Whr), HW Authentication MobileMark® 2007: Windows 7: up to 9.0 hr MobileMark 2012: Windows 7: up to 5.9 hr; Windows 8: up to 6.4 hr	Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Microsoft® Office 2013 preloaded; purchase product key to activate Skype™ Amazon Kindle
	Mobile Intel QM77 Express Chipset None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45), Dock connector	Nitro Pro PC Device Stage Evernote
PCIe WLAN ⁴ PCIe WWAN	11a/b/g/n, M.2 Card, Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT combo adapter Some: Wireless WAN upgradable	Supports ThinkVantage® technologies
Carrier Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Intel 82579LM Gigabit Network Connection (Hanksville), PHY, PCle x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator,	45-watt AC adapter EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
	Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

Date

Finger Bat-

print tery Intel

ThinkPad® T431s Relationship (20AC) - Onsite

Wide

screen

Type-model	Processor	Memory	display	Camera	GB [®] rpm	board	WLAN	SSD	Carrier	reader cel		Preload	(mm/yy)				
20AC0014US	i5-3437U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235 ²⁸	WWAN upg	None	Finger 3	vPro	Win7 Pro64	03/13				
20AC0018US	i7-3687U	4+4GB	14.0" HD+		500G 7200	Backlit	Intel 6235	24GB SSD	None			Win8 Pro64					
20AC000XUS	i5-3437U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	None 3	vPro	Win7 Pro64	03/13				
20AC0016US	i7-3687U	4+4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger 3	vPro	Win7 Pro64	03/13				
20AC0010US	i5-3437U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger 3	vPro	Win7 Pro64	03/13				
20AC000WUS	i5-3437U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	None 3	vPro	Win8 Pro64	03/13				
20AC0012US	i5-3437U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	Finger 3	vPro	Win8 64	03/13				
20AC001AUS	i7-3687U	4+4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger 3	vPro	Win7 Pro64	03/13				
20AC001CUS	i7-3687U	4+4GB	14.0" HD+	720p	240G FDE SSD	Backlit	Intel 6235	WWAN upg	None	Finger 3	vPro	Win7 Pro64	03/13				
20AC000TUS	i5-3437U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	None 3	vPro	Win7 Pro64	03/13				
20AC000VUS	i5-3437U	4GB	14.0" HD+	720p	500G 7200	Backlit	Intel 6235	24GB SSD	None	None 3	vPro	Win8 Pro64	03/13				
20AC0013US	i5-3437U	4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger 3	vPro	Win8 64	03/13				
20AC001EUS	i7-3687U	4+4GB	14.0" HD+	720p	240G FDE SSD	Backlit	Intel 6235	WWAN upg	None	Finger 3	vPro	Win8 Pro64	03/13				
20AC0019US	i7-3687U	4+4GB	14.0" HD+	720p	180G SSD	Backlit	Intel 6235	WWAN upg	None	Finger 3	vPro	Win8 Pro64	03/13				
Positioning Processor	Intel® (DDR3 I Intel C	Core™ i5- memory o ore i7-36	-3437U pro controller (u 87U proce:	cessor (p to 160 ssor (2 c	book™; one spind 2 cores, 1.90GH 0MHz), Intel Turb cores, 2.10GHz , 4 0MHz), Intel Turb	z, 3MB o o Boost IMB cac	2.0 (2.90GHz che), Intel HC	z), HT technol D Graphics 4 6	ogy 000 ,	- Some: \	Window preinsta downgr Window	ating system ys® 7 Profess alled through ade rights in ys 8 Pro 64-b	ional 64				
Memory					DDR3L, non-parit ard, one 204-pin (ble,		- Some: Windows 8 64-bit - Some: Windows 8 Pro 64-bit							
Optical SATA disk		Hard Dis	sk Drive / Š	ATA 3.00	TA 6.0Gb/s, 2.5" Bb/s, 2.5" wide, 7r	nm or 9.	.5mm high,		ıdable	Preloaded applications ⁵ (only some listed) - Windows 7 models							
M.2 SSD	Some:				ck Mounted Hard , via M.2 Card slo		ACTIVE Protecti	ion System™				age Center P Product Reco					
Widescreen display Camera	250 nit	s, 16:9 ás	spect ratio,	400:1 co	lor , anti-glare, LE ntrast ratio re, face tracking, f					AccessThinkVaLenovo	Conne Intage Simple	ctions™ Power Manaç Tap	,				
Graphics	suppor suppor <i>Maxim</i> i	ts externa ts dual in um exterr	dependent nal resolutio	onitor via display; on: 2560	or, a VGA DB-15 and x1600@60Hz (Di via optional Mini	splayPo	rt via optiona	l Mini DP cab	le);	Adobe® Reader® Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch							
Keyboard UltraNav™ ThinkLight™					keys, optional LE s surface touchpa			tons, multi-to	uch	- All models Lenovo Solution Center Password Manager							
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	3-cell: f Graphit Display Base: Integra Mobilei	ròm 3.6 ll te Black <i>cover:</i> C	b (1.63kg) Carbon-fiber Magnesium Iymer 3-cell <i>07: Wind</i>	/ Glass- alloy (47Whr, ows 7: u	.81"; 331mm x 22 fiber hybrid;), HW Authenticat o to 9.0 hr o to 5.9 hr; Winc o to 5.9 hr; Winc	ion				 ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Microsoft® Office 2013 preloaded; purchase product key to activate Skype™ 							
Chipset ExpressCard	Mobile Intel QM77 Express Chipset									AmazorNitro Pr)					

Backlit

key-

Card

SATA

M.2 Card WWAN/

ExpressCard None

Smart Card read None

Ports

4-in-1 reader (MMC, SD, SDHC, SDXC)

Multicard reader

Two USB 3.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45), Dock connector 11a/b/g/n, M.2 Card, Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT combo adapter

PCIe WLAN⁴ PCIe WWAN Some: Wireless WAN upgradable

Carrier Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Ethernet Intel 82579LM Gigabit Network Connection (Hanksville), PHY, PCle x1

Intel AMT

Intel Active Management Technology (iAMT)
HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / Audio support

dual array microphone, combo audio/microphone jack

Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Security Security chip

Fingerprint reader Some: AuthenTec fingerprint reader on the keyboard bezel, swipe sensor, LED indicator,

Power On Authentication, supports the security chip

Limited warranty¹² **3-years**/1-year battery, **limited onsite service**²⁴, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time/service upgrades²² available

Evernote

PC Device Stage

Supports ThinkVantage® technologies

45-watt AC adapter EPEAT™ Silver rating ENERGY STAR® 5.0-compliant GREENGUARD® certified

RoHS-compliant

International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹²

For Lenovo service²² upgrade options, please go to S-TA sheet

© Lenovo







Lenovo ThinkPad T530





Lenovo ThinkPad T530



Lenovo ThinkPad T530







Lenovo ThinkPad T530

ThinkPad® T530 2359 (TopSeller)

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB ⁸ rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Caro WWAN /mSATA	d Carrier	Finger print reader	Blue-		Intel	Intel vPro	Pre- load	Ann Date (mm/yy)
2	2359-2HU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 620528	WWAN upg	None	None	None	6	iAMT	vPro	Pro 64	06/12
	2359-2GU	i5-3320M	4GBx2	15.6" HD	720p	320G 7200	None	Intel 6205	WWAN upg	None	None	None	6	iAMT	vPro	Pro 64	06/12
2	2359-2FU	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	WWAN upg	None	None	None	6	iAMT	vPro	Pro 64	06/12
>< 1	2359-2EU	i5-3210M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 2200	WWAN upg	None	None	None	6	None	None	Pro 64	06/12
>< !	2359-2DU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	None	None	6	None	None	Pro 64	06/12
>< !	2359-2CU	i5-3210M	4GBx1	15.6" HD+	720p	320G 7200	None	Intel 2200	WWAN upg	None	None	None	6	None	None	Pro 64	06/12
>< /	2359-2BU	i5-3210M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 2200	WWAN upg	None	None	None	6	None	None	Pro 64	06/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	ome listed) • Rescue and Recovery™ • Password Manager Prological applications 14 (only come
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Preloaded applications¹⁴ (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • Fingerprint Software (fingerprint
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Norton[™] Internet Security 2012 (30 days of virus definitions)
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator
Keyboard TrackPoint [®] Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 30.6 hr	 Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports PCIa Mini Card	Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	Supports ThinkVantage® technologies
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth TM Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None None None Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security Security chip Fingerprint reade	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant r None 2 1-year - depot repair service / service upgrades ²² available	For compatible accessories, please go to O-T530 sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet
Littlicu warranty	1-year - depot repair service / service upgrades available	piease yo to 3-14 stileet

ThinkPad® T530 2359 (TopSeller) - Windows 8

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	Mini Card	PCIe Mini Card WWAN /mSATA	Finger print reader	Blue-				Preload	Ann Date (mm/yy)
><	2359-4DU	i5-3210M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	None	6	None	None	Win7 Pro64	10/12
	2359-2YU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205 ²⁸	WWAN upg	None	None	6	iAMT	vPro	Win8 Pro64	10/12
	2359-5CU	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	None	6	None	None	Win8 Pro64	02/13
	2359-4LU	i5-3230M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 2200	WWAN upg	None	None	6	None	None	Win7 Pro64	02/13
	2359-5JU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	WWAN upg	None	None	6	iAMT	vPro	Win7 Pro64	04/13

\bullet Small and medium business (SMB) model(s), part of the US TopSeller $^{\text{\tiny{TM}}}$ Program

Intel® Core® 15-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DPRS memory controller (up to 1600MHz), Intel Turb Boost 22 (a) C.10GHz). HT bechnology intel Core 15-3230M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DPRS memory controller (up to 1600MHz), Intel Turb Boost 20 (a) 20GHz). HT bechnology intel Core 15-3230M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DPRS memory controller (up to 1600MHz). Intel Turb Boost 20 (a) 20GHz). HT bechnology dual-channel capable, two 204-pin SO-DIMM sockets System automatically clocks dwn for processors with 133MHz DDR3 memory controller. (b) DPRS memory controller (up to 1500MHz). Intel Turb Boost 2.0 (3.30GHz), HT bechnology dual-channel capable, two 204-pin SO-DIMM sockets System automatically clocks dwn for processors with 133MHz DDR3 memory controller. (b) DPRS memory controller (b) DPRS m			
Memory 166B max* / PC3-12800 1600MHz DDR3, non-partly, dual-channel capable, two 204-pin SO-DIMS sockets	Positioning Processor	Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000,	- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit
Optical Ultrabay Same: 15.67 (296mm) HD (1366x768) color, anti-glare, LED backlight, 270 mits, 16.9 aspect ratio, 5001 contrast ratio, 50% Gamut Moreosottimal for every supports external analog monitor via Wilderson Resource (1070-EW) (Memory	dual-channel capable, two 204-pin SO-DIMM sockets	listed) - Windows 7 models
Mose Widescreen Some: 15.8° (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut (500mt) HD + (1600x200) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut (500mt) Full HD (1200x201080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut (500 February) Full HD (120x201080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 50% Gamut (500 February) Full HD (120x201080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 50% Gamut (500 February) Full HD (120x201080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 50% Gamut (500 February) Full HD (120x201080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 50% Gamut (500 February) Full HD (120x201080) color, anti-glare, LED backlight, 200 February) Full HD (120x201080) color, anti-glare, LED backlight, 200 February) Full HD (120x201080) February) Full HD (120x201080) February) Full HD (120x201080) February) Full HD (120x201080) February) Full HD (120x201080) February) Full HD (120x201080) February) Full HD (120x201080) February) Full HD (120x201080) February) Full HD (120x201080) February) February February February February) February Februa	Uİtrabay SATA disk	One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access <i>Some</i> : Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some</i> : HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™	ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap
display 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Ph- (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut From Photoprosecultion, wide view anigol, low light sensitive, face tracking, fixed focus Fraphics Intel HD Graphics 4000 in processor, supports external analog monitor via VSA DB-15 and digital monitor via Mini DisplayPort, supports dual independent display, Maximum external resolution: 2560x1600 @60Hz (DisplayPort via optional Mini DP cable); 1920x1200 @60Hz (single-link DVI-1 via optional Mini DP cable); 1920x1200 @60Hz (singl	mSATA™ SSD	None	purchase product key to activate
Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (gingle-link DVI-1 via optional Mini DP cable); 2048x1536@75Hz (VGA)	display	220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models
supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 @60Hz (DisplayPort via optional Mini DP cable); 1920x1200 @60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA) Keyboard TrackPoint* 1920x1200 @60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA) Forw, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav¹*, wide douchpad below keyboard. Tap Zones, scrolling, multi-ouch lilluminates the keyboard to improve visibility in low-light conditions 15.6W* (WxDxH): 14.68* v. 9.65* x. 1.25-1.40*; 372.8mm x.245.1mm x.31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber (Glass-fiber rhybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (575Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0.436304): up to 30.6 hr Chipset ExpressCard Multicard Reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Pote Mini Card PCIe WILAN* Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 PCIe WWAN Wireless WAN upgradable None Mone Intel B2579LM Glgabit Network Connection (Lewisville), PHY, PCIe x1 Intel AMT Some: Intel Active Management Technology (iAMT) Audio support Audio support Value Platform Module, TCG 1.2-compliant Curve Power-on password, hard disk password, supervisor password, security keyhole Tusked Platform Module, TCG 1.2-compliant			
TrackPoint** Track		supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);	Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage
Weight ¹² Case material Battery - type Battery - type Battery - life ¹⁰ Chipset Chi	TrackPoint® Touchpad	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch	Cyberlink PowerProducer (DVD±RW) All models
Battery - life¹⁰ Seculi (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell (94Whr): up to 30.6 hr Norton¹¹ Internet Security (30 days of virus definitions) • Skype¹™ Supports ThinkVantage® technologie 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) PEAT¹¹ Gold rating ENERGY STAR® 5.0-compliant International Warranty Service¹² 24 hour x 7 day¹® toll-free support during the warranty period¹² 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to 0-1530 sheet;	Weight ² Case material	6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint	Password ManagerThinkVantage System UpdateFingerprint Software (fingerprint
Chipset ExpressCard Smart Card Read Multicard Reader Ports Pole Mini Card PCle Mini Card PCle WLAN⁴ Carrier Modem Modem Modem Bluetooth™ Bluetooth™ Bluetooth™ Audio support Intel AMT Audio support Security Security Security Security Smart Card Read None Mone Shype™ (30 days of virus definitions) Skype™ (4-in-1 reader (MMC, SD, SDHC, SDXC)		6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr;	Lenovo Cloud Storage by SugarSync
Smart Card Reader Multicard Reader Multicard Reader Ports Ports Ports Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) PCIe Mini Card PCIe WLAN⁴ PCIe WLAN⁴ PCIe WLAN⁴ PCIe WWAN Carrier Modem Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Audio support Security Security Power-on password, hard disk password, supervisor password, security chip ExpressCard None None None Supports ThinkVantage® technologic ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹¹² 24 hour x 7 day¹¹8 toll-free support during the warranty period¹² Youring the warranty period¹² For compatible accessories, please go to O-T530 sheet;			
Multicard Reader Ports 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) PCIe Mini Card PCIe WLAN⁴ Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None IEEE 1394 None Bluetooth™ None Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel AMT Some: Intel Active Management Technology (iAMT) Audio support Power-on password, hard disk password, supervisor password, security keyhole Security Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Supports ThinkVantage® technologic Support, ethernet (RJ-45) Supports ThinkVantage® technologic Supports Supports (RJ-45) Supports ThinkVantage® technologic 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² Yolume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant			
PCIe WIAN ⁴ PCIe Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIe WWAN Carrier Modem Modem None IEEE 1394 Bluetooth™ None Ethernet Intel AMT Audio support Audio support Security Security Security Security Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant INO PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to O-T530 sheet;	Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC)	Supports ThinkVantage® technologies
Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCle WWAN Carrier Modem None None None Bluetooth™ Ethernet Intel AMT Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Security Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² Volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant			
Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Audio support Security	PCIe WWAN	Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable	ThinkPad Roll Cage (one-piece magnesium frame)
IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Audio support Security Securi			
Bluetooth™ Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Intel AMT Audio support Audio support Security Se	IEEE 1394	None	
Intel AMT Audio support Audio support Security			
Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant For compatible accessories, please go to O-T530 sheet;	Intel AMT	Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 /	24 hour x 7 day18 toll-free support
Fingerprint reader None	Security chip	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	go to O-T530 sheet;
Fingerprint reader None Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available For Lenovo service ²² upgrade option please go to S-TA sheet			For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T530 2392 (TopSeller)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Finger print reader	Blue- tooth			Intel vPro	Pre- load	Ann Date (mm/yy)
2392-4AU	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 620528	WWAN upg	None	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12
2392-49U	i7-3520M	4GBx2	15.6" HD	720p	500G 7200	None	Intel 6205	WWAN upg	None	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12
2392-48U	i7-3520M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	WWAN upg	None	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12
2392-46U	i5-3320M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	None	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12
2392-44U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	None	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12
2392-43U	i5-3320M	4GBx2	15.6" HD	720p	500G 7200	None	Intel 6205	WWAN upg	None	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12
2392-42U	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	WWAN upg	None	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12
2392-3ZU	i5-3210M	4GBx1	15.6" HD+	720p	128G SSD	None	Intel 6205	WWAN upg	None	Finger	BT	6	None	None	Pro 64	1 06/12
2392-3YU	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	Gobi 3000	select	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12
2392-3XU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	Gobi 3000	select	Finger	BT	6	iAMT	vPro	Pro 64	1 06/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

	Microsoft® Office 2010 Product Key Ready (O10PKR)	
Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Password Manager Preloaded applications ¹⁴ (only some listed)
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	 Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions)
Camera Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Dimensions ³ Weight ² Case material	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Battery - type Battery - life ¹⁰	Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 30.6 hr	
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCle Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Some: Intel Active Management Technology (iAMT) HO Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T530 sheet;
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options please go to S-TA sheet

ThinkPad® T530 2392 (TopSeller) - II

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Finger print reader	Blue- tooth			Intel vPro	Preload (Ann Date (mm/yy)
2392-6EU	i5-2520M	4GBx1	15.6" HD	720p	500G 7200	Backlit	Intel 2200	WWAN upg	None	No	6	None	None	Pro 64	07/12
2392-6DU	i7-3520M	4GBx1	15.6" HD	720p	500G 7200	Backlit	Intel 6205 ²⁸	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64	07/12
2392-6AU	i5-3320M	4GBx1	15.6" HD+	- 720p	180G SSD	Backlit	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	07/12
2392-64U	i5-3320M	4GBx1	15.6" HD+	- 720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Pro 64	07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000,	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
	DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	one listed) Rescue and Recovery™ Password Manager
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Preloaded applications ¹⁴ (only some listed)
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	 Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models)
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Graphics	Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 30.6 hr	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T530 sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T530 2392 (TopSeller) - Windows 8

Type-model Processor	Memory	Wide- screen display	Camera	Disk SATA GB⁵ rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	print	Blue- to tooth co		Intel AMT	Intel vPro	Preload	Ann Date (mm/yy)
2392-ARU i5-3320M	4GBx1	15.6" HD+	720p	180G SSD	Backlit	Intel 620528	WWAN upg	Finger	ВТ	6	iAMT	vPro	Win7 Pro64	10/12
2392-APU i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Win7 Pro64	10/12
2392-ANU i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Win7 Pro64	10/12
2392-6HU i5-2520M	4GBx1	15.6" HD	720p	500G 7200	Backlit	Intel 2200	WWAN upg	None	No	6	None	None	Win8 Pro64	10/12
2392-6CU i7-3520M	4GBx1	15.6" HD	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Win8 Pro64	10/12
2392-6BU i5-3320M	4GBx1	15.6" HD+	720p	180G SSD	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Win8 Pro64	10/12
2392-65U i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	6	iAMT	vPro	Win8 Pro64	10/12
2392-B3U i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	WWAN upg	None	No	6	iAMT	vPro	Win7 Pro64	10/12
2392-DYU i5-3230M	4GBx1	15.6" HD+	720p	128G SSD	None	Intel 6205	WWAN upg	Finger	BT	6	None	None	Win7 Pro64	02/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

	• A depot repair service 5-year innited warranty	
Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate
mSATA™ SSD Widescreen display	None Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models Lenovo Support
Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 3000 or 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW)
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium lon 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 30.6 hr	 Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Norton™ Internet Security
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34)	(30 days of virus definitions) • Skype™
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip Fingerprint reader	Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T530 sheet; For Lenovo service ²² upgrade options
Limited warranty.	² 3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T530 2392 (Optimus) - TopSeller

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCle Mini Card WWAN /mSATA	Finger print reader	Blue-		Intel AMT	Intel vPro	Preload (Ann Date mm/yy)
2392-4EU	i7-3520M	4GBx2	15.6" FHD	720p	180G SSD	None	Intel 6205 ²⁸	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	06/12
2392-4DU	i7-3520M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	06/12
2392-4CU	i7-3520M	4GBx2	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	06/12
2392-4BU	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	06/12
2392-47U	i5-3320M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	06/12
2392-45U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	06/12
2392-6FU	i5-2520M	4GBx1	15.6" HD	720p	500G 7200	Backlit	Intel 2200	WWAN upg	None	No	6	None	None	Pro 64	07/12
2392-69U	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	07/12
2392-66U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Pro 64	07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

 Microsoft® Office 2013 Product K. Part 1 (2013)

	Microsoft® Office 2010 Product Key Ready (O10PKR)	
Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed) • Rescue and Recovery TM • Password Manager
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	Preloaded applications ¹⁴ (only some listed)
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	 Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models)
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 3000 or 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	 Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded;
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.73 lb (2.60kg); 9-cell: starting at 6.10 lb (2.77kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	Edition (DVD±RW)
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2	Supports ThinkVantage® technologies
PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹2
	Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades ²² available	For compatible accessories, please go to O-T530 sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet
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ThinkPad® T530 2392 (Optimus) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Finger print reader	Blue- tooth		Intel AMT	Intel vPro	Preload	Ann Date (mm/yy)
2392-ASU	i7-3520M	4GBx1	15.6" HD+	500G 7200	Backlit	Intel 620528	WWAN upg	Finger	ВТ	9	iAMT	vPro	Win7 Pro64	10/12
2392-AQU	i5-3320M	4GBx1	15.6" HD+	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Win7 Pro64	10/12
2392-6GU	i5-2520M	4GBx1	15.6" HD	500G 7200	Backlit	Intel 2200	WWAN upg	None	No	6	None	None	Win8 Pro64	10/12
2392-68U	i7-3520M	4GBx1	15.6" HD+	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Win8 Pro64	10/12
2392-67U	i5-3320M	4GBx1	15.6" HD+	500G 7200	Backlit	Intel 6205	WWAN upg	Finger	BT	9	iAMT	vPro	Win8 Pro64	10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

		
Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	listed) - Windows 7 models
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	 Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Misraget® Office 2010 prelegated
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	 Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	- Windows 8 models
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 3000 or 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	 Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW)
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center
Dimensions ³ Weight ² Case material Battery - type	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.73 lb (2.60kg); 9-cell: starting at 6.10 lb (2.77kg) Display cover: Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication	 Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage
Battery - life ¹⁰	6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	by SugarSync ■ Norton™ Internet Security
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	(30 days of virus definitions) • Skype™
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN Carrier	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame)
Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	None IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip	Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T530 sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T530 2394

	_		Wide- screen	_	Disk SATA	Backlit key-	PCIe PC Mini Card	WWAN		Smart Card	Finger print	Blue-	Bat- tery	Intel		Pre-	Ann Date
Type-model	Processor	Memory	display	Camera	GB ⁸ rpm	board	WLAN	/mSATA	Carrier	Reader	reader	tooth	cells	vPro	(P)	load ((mm/yy)
2394-5UU	i5-3320M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 620528	upg	None	None	Finger	BT	6	vPro	G	Pro 64	06/12
2394-5VU	i5-3320M	4GBx1	15.6" HD+	720p	128G SSD	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	G	Pro 64	06/12
2394-5YU	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	G	Pro 64	06/12
2394-62U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	G	Pro 64	06/12
2394-63U	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	G	Pro 64	06/12
2394-64U	i5-3320M	4GBx1	15.6" HD	None	320G 7200	None	Intel 6205	upg	None	Smart	None	No	9	vPro	G	Pro 64	06/12
2394-36U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	Gobi	select	None	Finger	BT	6	vPro		Pro 64	06/12
2394-35U	i7-3520M	4GBx1	15.6" HD	None	500G 7200	None	Intel 6205	upg	None	None	None	No	6	vPro		Pro 64	06/12
2394-34U	i5-3320M	4GBx1	15.6" HD	None	320G 7200	None	Intel 6205	upg	None	None	None	No	6	vPro		Pro 64	06/12
2394-2SU	i5-3320M	4GBx1	15.6" HD+	720p	320G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro		Pro 64	06/12
2394-2GU	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro		Pro 64	06/12
2394-23U	i7-3520M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	G	Pro 64	06/12
2394-22U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	G	Pro 64	06/12
2394-70U	i5-3320M	4GBx1	15.6" HD+	720p	320G 7200	None	Intel 6205	upg	None	Smart	Finger	BT	6	vPro	G	Pro 64	07/12

- A depot repair service 3-year limited warranty

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	Microsoft® Office 2010 Product Key Ready (O10PKR)	
Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	ome listed) • Rescue and Recovery™ • Password Manager Prological applications 14 (only come
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Preloaded applications ¹⁴ (only some listed) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections TM Eigenvint Software (fingaporint
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	(30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Intel Small Business Advantage • RapidBoot HDD Accelerator
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Symantec [™] VIP Windows Live [™] Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Glass-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 30.6 hr	Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	Supports ThinkVantage® technologies
PCIe WWAN	Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCle Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS	65-watt AC adapter ThinkPad Roll Cage (one-piece
Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security	Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Security chip	Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T530 sheet;
Limited warranty ¹²	2 3-years/1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T530 2394 (Windows 8)

			Wide- screen		Disk SATA	Backlit kev-	PCIe Mini Card	PCIe Mini Card WWAN	Finger	Blue-	Bat- terv	GI Intel	obal GMP		Ann Date
Type-model	Processor	Memory	display	Camera	GB [®] rpm	board	WLAN	/mSATA	reader				(P)	Preload	(mm/yy)
2394-6EU	i7-3520M	4GBx1	15.6" HD	None	500G 7200	None	Intel 6205 ²⁸	WWAN upg	None	No	6	vPro		Win8 Pro64	10/12
2394-6DU	i5-3320M	4GBx1	15.6" HD	None	320G 7200	None	Intel 6205	WWAN upg	None	No	6	vPro		Win8 Pro64	10/12
2394-42U	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	G	Win8 Pro64	10/12
2394-43U	i5-3320M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	G	Win8 Pro64	10/12
2394-44U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	G	Win8 Pro64	10/12
2394-45U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	G	Win8 Pro64	10/12
2394-7NU	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12
2394-7MU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12

• A depot repair service 3-year limited warranty

Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Uİtrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	- Windows 7 models • Lenovo® Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • ThinkVantage Power Manager
	None Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (192x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded;
TrackPoint® Touchpad	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer
Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium lon 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 30.6 hr	(DVD±RW) - All models - Lenovo Solution Center - Password Manager - ThinkVantage System Update - Fingerprint Software (fingerprint models)
Chipset ExpressCard Smart Card Read Multicard Reader	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34)	Lenovo Cloud Storage by SugarSync Skype™
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to O-T530 sheet; For Lenovo service²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® T530 2394 (Optimus)

Type model	Drococc	Momony	Wide- screen	Comoro	Disk SATA	Backlit key-	PCle Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Finger print	Blue-		Intel		Date
Type-model	Processor	Memory	display	Camera	GB ⁸ rpm	board	WLAN	/IIISAIA	reader	tooth	Cells	VPIO	(P)	Preload (mm/yy)
2394-5RU	i7-3520M	4GBx1	15.6" FHD	720p	180G SSD	None	Intel 6205 ²⁸	WWAN upg	Finger	BT	9	vPro	G	Pro 64 06/12
2394-5TU	i7-3520M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64 06/12
2394-5WU	i7-3520M	4GBx1	15.6" FHD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64 06/12
2394-5XU	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64 06/12
2394-5ZU	i5-3320M	4GBx1	15.6" FHD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64 06/12
2394-61U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64 06/12
2394-65U	i5-3320M	4GBx1	15.6" HD+	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	G	Pro 64 06/12

- A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (010PKR)

		T
Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	some listed) • Rescue and Recovery™ • Password Manager
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Preloaded applications¹⁴ (only some listed) ■ Lenovo® Solution Center ■ Lenovo Message Center Plus ■ ThinkVantage Product Recovery ■ Access Connections™
Widescreen display	None Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	(30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Intel Small Business Advantage • RapidBoot HDD Accelerator • Symantec™ VIP • Windows Live™ Essentials
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.73 lb (2.60kg); 9-cell: starting at 6.10 lb (2.77kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card Read Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC)	
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™	Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) Bluetooth 4.0 wireless	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified
Ethernet Intel AMT Audio support Security	Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (IAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades ²² available	For compatible accessories, please go to O-T530 sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T530 2394 (Optimus) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Finger print reader	Bat- tery cells	Intel		- /	Ann Date (mm/yy)
2394-41U	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205 ²⁸	WWAN upg	Finger	9	vPro	G	Win8 Pro64	10/12
2394-7PU	i7-3520M	4GBx1	15.6" HD+	720p	180G SSD	Backlit	Intel 6205	WWAN upg	Finger	9	vPro		Win7 Pro64	12/12

• A depot repair service 3-year limited warranty

Positioning Processor	Premiere performance; two spindles Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Preloaded applications ⁵ (only some listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW)
Camera Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory,	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
	supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-l via optional Mini DP cable); 2048x1536@85Hz (VGA)	- Windows 8 models - Lenovo Support - Lenovo Companion - Lenovo QuickLaunch
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.73 lb (2.60kg); 9-cell: starting at 6.10 lb (2.77kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium lon 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	(DVD±RW) - All models - Lenovo Solution Center - Password Manager - ThinkVantage System Update - Fingerprint Software (fingerprint
Chipset ExpressCard Smart Card Read Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	models) • Lenovo Cloud Storage by SugarSync • Skype™
Ports PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support	Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45) Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹²
	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades ²² available	For compatible accessories, please go to O-T530 sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T530 2429 (Onsite)

			Wide- screen		Disk SATA	Backlit key-	Mini Card	WWAN		Smart Card	Finger print	Blue-	Bat- tery		lobal (GMP	G) Pre-	Ann Date
Type-model	Processor	Memory	display	Camera	GB ⁸ rpm	boárd	WLAN	/mSAT/	Carrier	Reader	reader				(P)	load	(mm/yy)
2429-5UU	i5-3320M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 62052	²⁸ upg	None	None	Finger	ВТ	6	vPro	GΡ	Pro 64	06/12
2429-5VU	i5-3320M	4GBx1	15.6" HD+	720p	128G SSD	None	Intel 6205			None	Finger	BT	6	vPro	GΡ	Pro 64	06/12
2429-5YU	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	GΡ	Pro 64	06/12
2429-62U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	GΡ	Pro 64	06/12
2429-64U	i5-3320M	4GBx1	15.6" HD+	720p	320G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	GΡ	Pro 64	06/12
2429-2EU	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	Gobi	select	None	Finger	BT	6	vPro		Pro 64	06/12
2429-2CU	i7-3520M	4GBx1	15.6" HD	None	500G 7200	None	Intel 6205	upg	None	None	None	No	6	vPro		Pro 64	06/12
2429-2BU	i5-3320M	4GBx1	15.6" HD	None	320G 7200	None	Intel 6205	upg	None	None	None	No	6	vPro		Pro 64	06/12
2429-26U	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro		Pro 64	06/12
2429-23U	i7-3520M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	GΡ	Pro 64	06/12
2429-22U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	upg	None	None	Finger	BT	6	vPro	GΡ	Pro 64	06/12
2429-70U	i5-3320M	4GBx1	15.6" HD+	720p	320G 7200	None	Intel 6205	upg	None	Smart	Finger	BT	6	vPro	GΡ	Pro 64	07/12

	 Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-ye Microsoft[®] Office 2010 Product Key Ready (O10PKR) 	ear limited warranty
Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 some listed) Rescue and Recovery™ Password Manager Preloaded applications¹⁴ (only some
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	isted) Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint
Widescreen display	Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap
Camera Graphics	Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote® Intel Small Business Advantage Designed and the second of the
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 30.6 hr	Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCIe Mini Card,	Supports ThinkVantage® technologies
Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Fingerprint reader	Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T530 sheet;
Limited warranty ¹²	2 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T530 2429 (Onsite) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA		Blue- tooth c		Intel	ilobal (0 GMP (P)	G) Preload	Ann Date (mm/yy)
2429-42U	i7-3520M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 620528	WWAN upg	Finger	BT	6	vPro	GΡ	Win8 Pro64	10/12
2429-43U	i5-3320M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	GΡ	Win8 Pro64	10/12
2429-44U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	GΡ	Win8 Pro64	10/12
2429-45U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro	GΡ	Win8 Pro64	10/12
2429-7DU	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12
2429-7CU	i5-3320M	4GBx1	15.6" HD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	6	vPro		Win7 Pro64	12/12

• Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	 Some: Windows 8 Pro 64-bit Preloaded applications⁵ (only some listed)
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager
mSATA™ SSD Widescreen display Camera	None Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded;
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.39 lb (2.45kg); 9-cell: starting at 5.76 lb (2.62kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 9.1 hr; 9-cell (94Whr): up to 15.3 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 30.6 hr	(DVD±RW) - All models - Lenovo Solution Center - Password Manager - ThinkVantage System Update - Fingerprint Software (fingerprint models)
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34)	 Lenovo Cloud Storage by SugarSync Norton™ Internet Security (30 days of virus definitions) Skype™
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	Supports ThinkVantage® technologies 65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹² For compatible accessories, please go to O-T530 sheet;
Limited warranty ¹²	3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T530 2429 (Optimus) - Onsite

	Wide-			Disk	Backlit	PCle	PCIe Mini Card		Bat- Blue- terv			ilobal (G)		Ann	
Type-model	Processor	Memory	screen display	Camera	SATA GB [®] rpm	key- board	Mini Card WLAN	WWAN /mSATA	print reader			Intel vPro	GMP (P)	Preload (Date (mm/yy)
2429-5RU	i7-3520M	4GBx1	15.6" FHD	720p	180G SSD	None	Intel 6205 ²⁸	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2429-5TU	i7-3520M	4GBx1	15.6" HD+	720p	180G SSD	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2429-5WU	i7-3520M	4GBx1	15.6" FHD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2429-5XU	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2429-5ZU	i5-3320M	4GBx1	15.6" FHD	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2429-61U	i5-3320M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2429-63U	i5-3320M	4GBx1	15.6" HD+	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12
2429-65U	i5-3320M	4GBx1	15.6" HD	720p	320G 7200	None	Intel 6205	WWAN upg	Finger	BT	9	vPro	GΡ	Pro 64	06/12

- Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	ome listed) • Rescue and Recovery™ • Password Manager
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Preloaded applications¹⁴ (only some listed) ■ Lenovo® Solution Center ■ Lenovo Message Center Plus ■ ThinkVantage Product Recovery ■ Access Connections™
mSATA™ SSD Widescreen display	None Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	 Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Norton™ Internet Security 2012
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	(30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Evernote® • Intel Small Business Advantage • RapidBoot HDD Accelerator • Symantec™ VIP • Windows Live™ Essentials
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.73 lb (2.60kg); 9-cell: starting at 6.10 lb (2.77kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	
PCIe Mini Card	Two PCI Express Mini Card slots	
PCIe WLAN ⁴ PCIe WWAN	11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable	Supports ThinkVantage® technologies
Carrier Modem IEEE 1394	None None IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating
Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-T530 sheet;
Limited warranty ¹²	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® T530 2429 (Optimus) - Onsite (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Finger print reader	tery	Intel	lobal (GMP (P)	- /	Ann Date (mm/yy)
2429-41U	i7-3520M	4GBx1	15.6" HD+	720p	500G 7200	None	Intel 6205 ²⁸	WWAN upg	Finger	9	vPro	GΡ	Win8 Pro64	10/12
2429-7FU	i7-3520M	4GBx1	15.6" HD+	720p	180G SSD	Backlit	Intel 6205	WWAN upg	Finger	9	vPro		Win7 Pro64	12/12

• Some models are part of the Global Models Plus program with limited onsite service24 3-year limited warranty

Positioning Processor	Premiere performance; two spindles Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	downgrade rights in Windows 8 Pro 64-bit - <i>Some:</i> Windows 8 Pro 64-bit
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	Preloaded applications ⁵ (only some listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery
Widescreen display	None Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) HD+ (1600x90) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW)
Camera Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and	 Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
	NVIDIA NVS [™] 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; <i>Maximum external resolution:</i> 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.73 lb (2.60kg); 9-cell: starting at 6.10 lb (2.77kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	(DVD±RW) - All models - Lenovo Solution Center - Password Manager - ThinkVantage System Update - Fingerprint Software (fingerprint
Ports	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)	models) • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security (30 days of virus definitions) • Skype™
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable	Supports ThinkVantage® technologies
Carrier Modem IEEE 1394 Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	None None IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage	For compatible accessories, please go to O-T530 sheet; For Lenovo service ²² upgrade options,
	excluding holidays, next business day response time/ service upgrades ²² available	please go to S-TA sheet

ThinkPad® T530 Accessories

IninkPad® 1530 Accessories		·
Memory 2GB PC3-12800 DDR3 SODIMM 4GB PC3-12800 DDR3 SODIMM 8GB PC3-12800 DDR3 SODIMM	0A65722 ann 06/05/12 0A65723 ann 06/05/12 0A65724 ann 06/05/12	Batteries OA36302 ann 06/05/12 ThinkPad Battery 70+ (6-cell) 0A36302 ann 06/05/12 ThinkPad Battery 70++ (9-cell) 0A36303 ann 06/05/12 ThinkPad Battery 28++ (9 cell, slice) ⁴³ 0A36304 ann 06/05/12 43 The trade of the state of
Ultrabay Enhanced 12.7mm Serial ATA Hard Drive 12.7mm Bay Adapter III DVD Burner Ultrabay Enhanced Drive III	0A65623 ann 02/28/12 0A65625 ann 06/05/12	attaches under ThinkPad using docking connector (not supported when using Series 3 Port Replicator or Docks). ThinkPad External Battery Charger ⁴⁴ 40Y7625 ann 09/20/05
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive 500GB 5400rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 1TB 5400rpm SATA 3.0Gb/s 9.5mm 4K HDD ⁴¹ 220CB 7700rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹	0B47309 ann 12/11/12 0A65631 ann 06/05/12 0A65632 ann 06/05/12 0A65633 ann 06/05/12 0A65635 ann 06/05/12	
320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm Self Encrypting (SED) OPAL Capable HDD ⁴¹ 128GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹ 180GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹ 256GB 2.5" SATA 6.0Gb/s OPAL-capable SSD ⁴¹	0A65636 ann 08/21/12 0A65629 ann 06/05/12 0A65630 ann 06/05/12 0A65620 ann 05/15/12	ThinkPad 135W AC Adapter 55Y9317 ann 01/07/10 90W Ultraslim AC/DC Combo Adapter 41R4493 ann 09/22/09 5 Only compatible with the integrated graphics models. Compatible only with dual core models. More info at www.lenovo.com/support/poweradapters
⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive 12.7mm Bay Adapter III C USB 2.0 Portable 500GB Hard Disk	0A65623 in the Ultrabay. 45K1690 <i>ann 05/26/09</i>	Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493 •iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07 •Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09
USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive USB 3.0 Secure 1TB Hard Drive	0A65619 ann 11/29/11 0A65616 ann 11/29/11 0A65621 ann 08/28/12	More information at www.lenovopowertips.com
Lenovo Slim USB Portable DVD Burner Wireless WAN (Mini PCI Express)	0A33988 ann 06/14/11	Carrying Cases Up to 15.6" widescreen models: Lenovo Messenger Max Lenovo Performance BackPack 41U5253 ann 05/01/07 41U5254 ann 05/01/07
Only WWAN upgradable models: ThinkPad Gobi™ 3000 Mobile Broadband	0A36185 ann 04/12/11	ThinkPad Business Topload Case 43R2476 ann 05/13/08 ThinkPad Business Backpack 43R2482 ann 05/13/08 ThinkPad Deluxe Expander Case 43R2478 ann 05/13/08
ThinkPad Expansion Lenovo® Essential Notebook Stand ThinkPad Port Replicator Series 3 with USB 3.062 ThinkPad Mini Dock Series 3 - 90W ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W62 TP Mini Dock Plus Series 3 w/ USB 3.0 - 90W62 TP Mini Dock Plus Series 3 w/ USB 3.0 - 170W	433710U ann 06/23/09	ThinkPad Executive Leather Case Lenovo Sport Backpack - Red Lenovo Sport Slimcase - Red Lenovo Sport Messenger - Red Lenovo Sport Backpack - Blue Lenovo Sport Backpack - Blue Lenovo Sport Backpack - Blue DB47298 ann 08/28/12 Lenovo Sport Slimcase - Blue DB47300 ann 08/28/12
62 Compatible only with dual core models. Keyboard TrackPoint Cap Collection	73P2698 ann 12/16/03	Lenovo Sport Messenger - Blue 0B47299 ann 08/28/12 Lenovo Sport Backpack - Grey 0B47301 ann 08/28/12 Lenovo Sport Slimcase - Grey 0B47303 ann 08/28/12 Lenovo Sport Messenger - Grey 0B47302 ann 08/28/12
Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad Preferred Pro USB Keyboard	0A34032 ann 04/05/11 33L3225 ann 05/01/00 73P5220 ann 06/21/05	More information at www.lenovo.com/support/cases Monitors
Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard Lenovo USB Smartcard Keyboard 52 Wireless via 2.4GHz technology using a micro	73P2620 ann 03/23/04 55Y9003 ann 08/18/09 73P4730 ann 02/22/05 51J0155 ann 03/24/09 o-size USB receiver.	ThinkVision® L1711p 17" (VGA, DVI-D) 5047HB2 ann 10/20/09 ThinkVision L1900p 19" (VGA, DVI-D) 4431HE1 ann 11/11/08 ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)® 2448MB6 ann 09/13/11 ThinkVision L2250p Wide 22" (VGA, DVI-D) 2572HB6 ann 10/20/09 ThinkVision L2251x Wide 22" (VGA, DP)® 2578HB6 ann 10/20/09 ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)® 2572MB6 ann 09/13/11
Mouse Lenovo Optical Mouse (USB) Lenovo Laser Mouse (USB)	06P4069 ann 05/21/03 41U3074 ann 01/23/07	ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)69 4420MB2 ann 09/13/11
ThinkPad USB Laser Mouse Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical)	57Y4635 ann 12/15/09 31P7405 ann 08/27/02 31P7410 ann 06/04/02	with Protective Screen Cover (USB 2.0) 1452DS6 ann 08/16/11 ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Case (USB 2.0) 1452DB6 ann 08/16/11
ThinkPad Bluetooth Laser Mouse Lenovo Wireless Laser Mouse ⁵²	0A36407 ann 06/26/12 0A36188 ann 12/20/11	More information at www.lenovo.com/support/monitors www.lenovo.com/support/thinkpad/optimus-monitors
Multimedia ThinkPad In-Ear Headphones with microphone Modem	57Y4488 ann 01/07/10	Monitor Accessories ⁴⁶ Lenovo USB 3.0 to DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable 0B47072 ann 08/14/12 0A36536 ann 05/17/11
USB 2.0 Lenovo Modem Security	43R1814 ann 02/26/08	Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar 0847090 ann 06/26/12 0847091 ann 07/24/12 0A36190 ann 05/01/12
3M 15.6W Privacy Filter from Lenovo Kensington® MicroSaver® Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock USB Gemplus GemPC Smart Card Reader	0A61771 ann 04/05/11 73P2582 ann 12/29/03 45K1620 ann 09/30/08 57Y4303 ann 08/24/10 41N3040 ann 02/21/06	Kensington MicroSaver Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision monitors. 73P2582 ann 12/29/03 45K1620 ann 09/30/08 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09
		More information at www.lenovo.com/support/monitoraccessories For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories
		www.lenovo.com/support/accessories Product specifications on Lenovo Support
		www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessory brochures
		www.lenovoquickpick.com An Options Compatibility Configurator for Lenovo systems

ThinkPad_®









Lenovo ThinkPad W530



Lenovo ThinkPad W530



Lenovo ThinkPad W530 with four displays



Lenovo ThinkPad W530

ThinkPad® W530 2438 (Optimus) - TopSeller

		Wide- screen	Discrete	Disk SATA		Backlit key-	PCle Mini Card	PCIe Mini Card WWAN/	Smart Card	Color	Bat-	Intel		Ann Date
Type-model Proce	ssor Memory		graphics		RAID	board	WLAN	mSATA	Reade				Preload (
< 2438-2MU i7-392		15.6" FHD		1x500G 7200		None		WWAN upg	Smart			_	Pro 64	06/12
< 2438-2LU i7-372 < 2438-2KU i7-382							Intel 6205 Intel 6205	WWAN upg WWAN upg	None None	None None			Pro 64 Pro 64	
< 2438-2JU i7-372							Intel 6205	WWAN upg	None	None			Pro 64	
< 2438-2HU i7-372							Intel 6205	WWAN upg	None	None			Pro 64	06/12
< 2438-3AU i7-372 < 2438-39U i7-372								WWAN upg WWAN upg	None None	None None			Pro 64 Pro 64	
2438-59U i7-384							Intel 6205	WWAN upg	None	None			Pro 64	
2438-58U i7-394	0XM 4GBx4	15.6" FHD	K2000M	1x500G 7200	No	None	Intel 6205	WWAN upg	Smart				Pro 64	
2438-57U i7-374				1x500G 7200	No	None	Intel 6205	WWAN upg	None	None			Pro 64	
Positioning Processor Memory Optical Ultrabay SATA disk mSATA™ SSD Widescreen display Color calibration Camera	Intel HD Grap Intel Turbo Bo Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- Intel Core	i7-3720QM prost 20 (3.66 graphs) Fundamental (3.96 graphs) Fundamental	processor DR3 mer GHz), HT cessor (4 up to 1600 cessor (4 up to 1600 cessor (4 up to 1600 cessor (4 up to 1600 max ⁷ , two max, four 2800 1600 bay Enhar vices, Ultra Solos, 2.5" wi able, supp to 1600 cessor (4 up to 1600 max, four 2800 1600 bay Enhar vices, Ultra Solos, 2.5" wi able, supp to 1600 cet ratio, 5 brator by 3 brator	cores, 2.70Gi MHz), Intel Tui cores, 2.80Gi MHz), Intel Tui cores, 2.80Gi MHz), Intel Tui cores, 3.0GHz MHz), Intel Tui cores, 3.0GHz MHz), Intel Tui 204-pin SO-DII MHz DDR3, no noed, removabl blay Slim-comp TA 6.0Gb/s, 2.5 de, 7mm or 9.5 dorts the secon	(up to the total control of th	MB cache oost 2.0 MB cache oost 2.0 MB cache oost 2.0 MB cache oost 2.0 MB cache oost 2.0 MB cache oost 2.0 ockets	Hz), e), Intel HE (3.70GHz), e), Intel HE (3.70GHz), e), Intel HE (3.80GHz), e), Intel HD (3.80GHz), -channel ca m high, both high ive Protectic Mounted H acklight, nut ED backligh ut sor in palm i	tom access on System™ ard Drive t, rest, LED indica	Ge Pr 100, Re 50 100, 100, Pr 11s 100, 100, 100, 100, 100, 100, 100,	eloaded enuine Wi ofessiona eady to ir me listed Rescue a Password ted) Lenovo ® Lenovo ® ThinkVan Access C Fingerpri models) ThinkVan Lenovo C by Sugarı (30 days Adobe® F Skype™ f Evernote Intel Sma RapidBod Symantee	indowal 64 nstall nstall nstall nstall nstall nstall nstall nstall solut lessa tage conne nt So tage cloud Sync simple lnteri lnteri lil Bus tt HD	ecove eager ication ion Ceage Ce Produ ections ftware Syste Power Storage eTap net Se ent Se indows	cations ry ns (only enter enter Plus ect Recov (fingerp m Updat r Manage ge curity 20 initions) s Advanta elerator	4 (only y some s yery rint e er
Graphics	NVIDIA® Optir Intel HD Grap NVIDIA Quad supports extel supports three Maximum extel	mus™ techno phics 4000 ir ro® K1000M rnal analog n e independer ernal resoluti	ology, auto- n processo or K2000 nonitor via nt displays on: 3840x	M , PCI Express VGA DB-15 ar	n disc s® x16 nd dig Displa	crete and 5, 2GB n jital mon ayPort vi	d integrated nemory, itor via Mini a optional N	graphics, DisplayPort; fini DP cable);	•	Microsoft purchase Corel® W Corel Bui (DVD±RV Corel DV Edition (E	© Offi prod inDVI rn.No V) D Mo DVD±	ice 20° luct ke D® (D\ w™ Le vieFad RW)	10 preloa by to activ /D±RW) enovo Ec ctory® Le	rate lition novo
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, TrackPoint® po UltraNav™, wi	ThinkVantagointing deviced	ge button, s , "Press-to below key	<u> </u>	nultin net So nes, s	nedia Fn croll Bar crolling,	keys, optio 13, magnifyir multi-touch	nal LED backlig	-1- A	X-Rite® P (color cal				orator
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxD. 6-cell: starting Display cover. Lithium Ion 6- 6-cell (57Whr, 9-cell plus 9-c	xH): 14.68" x at 5.76 lb (2 carbon-fibe cell or 9-cell, b: up to 7.7 h ell Slice batt	: 9.65" x 1. :.62kg); r / Glass-fi supports r; 9-c ery (94Wh	25-1.40"; 372.8 9-cell: starting iber hybrid; Boi optional Slice & cell (94Whr): up r, 0A36304): up	Bmm: at 6.1 tom: atter o to 1	x 245.1n 9 lb (2.8 Glass-fib y as 2nd 2.8 hr;	nm x 31.8-3 1kg) per reinforce	5.6mm od plastic w/o pa V Authentication						
Chipset ExpressCard	Mobile Intel C One slot (Exp			et										
Smart Card Read	Some: Smart	Card reade	•						Sı	ipports Th	hinkV	antag	e® techno	ologies
Multicard Reader Ports	Multicard Reader 4-in-1 reader (MMC, SD, SDHC, SDXC)											pter age (o	ne-piece	
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth™ Bluetooth 4.0 wireless Intel AMT Audio support Audio support Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel AS579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2											ARD pliant al Wa day ¹	ating 5.0-c certif rranty toll-fr	compliant fied Service ¹ ree suppo period ¹²	7
Audio support Security Security chip	HD Audio, Rea volume up, do Power-on pas Trusted Platfo	altek® ALC32 wn, mute bu sword, hard (rm Module, 1	202 codec ttons / dua disk passv FCG 1.2-co	, Dolby [®] Home Il array mic, mio vord, superviscompliant	r pas	e button, sword, s	, combo aud ecurity keyl	dio/mic jack	Fo go Fo	or compat to O-W5 or Lenovo	ible a 30 sh serv	ccess neet; ice ²² u	ories, ple	
Fingerprint reader	AuthenTec fing Power On Aut	gerprint read hentication, s	er on paln supports th	n rest, swipe se ne security chip)				ple Fo	ease go to or ISV cer	o S-T tificat	A sheetions, p	et; olease vi	
Power On Authentication, supports the security chip Limited warranty ¹² 3-years /1-yr battery - depot repair service / service upgrades ²² available											com.	supp	ort/ISV	

ThinkPad® W530 2438 (Optimus) - TopSeller (Windows 8)

]	Гуре-model	Processor	Memory	Wide- screen display	Discrete graphics	Disk SATA GB [®] rpm	RAID	Backlit key- board	PCle Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Color to			Intel vPro	Preload	Ann Date (mm/yy)
× 2	2438-4CU	i7-3720QM	8GBx1	15.6" FHD	K1000M	1x500G 7200	No	Backlit	Intel 620528	WWAN upg	None	9	iAMT	vPro	Win7 Pro64	10/12
× 2	2438-4BU	i7-3720QM	8GBx1	15.6" HD+	K1000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	None	9	iAMT	vPro	Win7 Pro64	10/12
× 2	2438-3BU	i7-3720QM	8GBx1	15.6" FHD	K1000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	None	9	iAMT	vPro	Win8 Pro64	10/12
× 2	2438-38U	i7-3720QM	8GBx1	15.6" HD+	K1000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	None	9	iAMT	vPro	Win8 Pro64	10/12
× 2	2438-4LU	i7-3720QM	8GBx1	15.6" FHD	K1000M	1x180G SSD	No	Backlit	Intel 6205	WWAN upg	None	9	iAMT	vPro	Win7 Pro64	10/12
2	2438-4KU	i7-3630QM	8GBx1	15.6" HD+	K1000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	None	9	None	No	Win7 Pro64	10/12
2	2438-5AU	i7-3740QM	8GBx1	15.6" HD+	K1000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	None	9	iAMT	vPro	Win7 Pro64	02/13
2	2438-56U	i7-3740QM	8GBx1	15.6" FHD	K1000M	1x180G SSD	No	Backlit	Intel 6205	WWAN upg	None	9	iAMT	vPro	Win7 Pro64	02/13
2	2438-52U	i7-3740QM	4GBx2	15.6" FHD	K1000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	None	9	iAMT	vPro	Win7 Pro64	02/13
2	2438-4ZU	i7-3740QM	4GBx2	15.6" FHD	K1000M	1x180G SSD	No	Backlit	Intel 6205	WWAN upg	None	9	iAMT	vPro	Win7 Pro64	02/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Power-packed engineering with Open GL graphics and ISV certifications

	 Power-packed engineering with Open GL graphics and ISV certifications 	
Positioning Processor	Mobile workstation; two spindles Intel® Core™ i7-3630QM processor (4 cores, 2.40GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.40GHz), HT technology Intel Core i7-3720QM processor (4 cores, 2.60GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology Intel Core i7-3740QM processor (4 cores, 2.70GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.70GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some listed)
Memory	dual-core model: quad-core model: 32GB max, four 204-pin SO-DIMM sockets 32GB max, four 204-pin SO-DIMM sockets PC3-12800 1600MHz DDR3, non-parity, dual-channel capable	- Windows 7 models - Lenovo® Message Center Plus
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Microsoft® Office 2010 preloaded;
mSATA™ SSD Widescreen display	None Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo
Color calibration Camera	None HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Edition (DVD±RW) - Windows 8 models
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA Quadro® K1000M or K2000M, PCI Express® x16, 2GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 3840x2160@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate PC Device Stage Cyberlink Power2Go (DVD±RW)
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.76 lb (2.62kg); 9-cell: starting at 6.19 lb (2.81kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	 Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Skype™
Chipset ExpressCard	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34)	
Smart Card Read		Supports ThinkVantage® technologies 170-watt AC adapter ThinkPad Roll Cage (one-piece
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN Carrier Modem Bluetooth TM Ethernet Intel AMT	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT)	magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Audio support Security Security chip	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	For compatible accessories, please go to O-W530 sheet; For Lenovo service ²² upgrade options,
	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	please go to S-TA sheet;
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	For ISV certifications, please visit www.lenovo.com/support/ISV
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ThinkPad® W530 2438 (Optimus) - TopSeller (Windows 8) - II

Type-model Processor	Memory	Wide- screen display	Discrete graphics	Disk SATA GB [®] rpm		Backlit key- board	Mini Card		Bat- Color tery calib cells	Intel		Preload	Ann Date (mm/yy)
2438-5JU i7-3740QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Intel 6205 ²⁸	WWAN upg	X-Rite 9	iAMT	vPro	Win8 Pro64	1 03/13
2438-5HU i7-3740QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	X-Rite 9	iAMT	vPro	Win7 Pro64	1 03/13
2438-5GU i7-3740QM	8GBx1	15.6" HD+	K2000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	X-Rite 9	iAMT	vPro	Win7 Pro64	1 03/13
2438-5FU i7-3630QM	8GBx1	15.6" HD+	K2000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	X-Rite 9	None	No	Win8 Pro64	1 03/13
2438-5EU i7-3630QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	X-Rite 9	None	No	Win8 Pro64	1 03/13
2438-5DU i7-3630QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	X-Rite 9	None	No	Win7 Pro64	1 03/13
2438-5CU i7-3630QM	8GBx1	15.6" HD+	K2000M	1x500G 7200	No	Backlit	Intel 6205	WWAN upg	X-Rite 9	None	No	Win7 Pro64	1 03/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Power-packed engineering with Open GL graphics and ISV certifications

Positioning Processor	Mobile workstation; two spindles Intel® Core™ i7-3630QM processor (4 cores, 2.40GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.40GHz), HT technology Intel Core i7-3740QM processor (4 cores, 2.70GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.70GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit
Memory	dual-core model: 16GB max ⁷ , two 204-pin SO-DIMM sockets 32GB max, four 204-pin SO-DIMM sockets All: PC3-12800 1600MHz DDR3, non-parity, dual-channel capable	Preloaded applications ⁵ (only some listed)
Optical Ultrabay SATA disk mSATA™ SSD	DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap
Widescreen display	Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut Pantone® color calibrator by X-Rite® color calibration sensor in palm rest, LED indicator	Adobe® Reader® Microsoft® Office 2010 preloaded; purchase product key to activate Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Camera Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA Quadro® K1000M or K2000M, PCI Express® x16, 2GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 3840x2160@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	Corel DVD MovieFactory® Lenovo Edition (DVD±RW) Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.76 lb (2.62kg); 9-cell: starting at 6.19 lb (2.81kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium lon 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	All models Lenovo Solution Center Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage
Chipset ExpressCard	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34) Smart Card reader	by SugarSync • Skype™
	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	Supports ThinkVantage® technologies 135-watt AC adapter ThinkPad Roll Cage (one-piece
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT)	magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Audio support Security Security chip	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	For compatible accessories, please go to O-W530 sheet; For Lenovo service ²² upgrade options,
	r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 2 3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet; For ISV certifications, please visit www.lenovo.com/support/ISV

ThinkPad® W530 2441 (Optimus)

## Pcell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr Chipset Express Card One slot (Express Card/34) Smart Card Reader One slot (Express Card/34) Multicard Reader One slot (Express Chipset One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Chipset One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Card/34) Multicard Reader One slot (Express Chipset One slot (Express Card/34) Multicard Reader One slot (Express Chipset One slot (Express Card/34) Multicard Reader One slot (Express Chipset One slot (Express Chipset One slot (Express Card/34) Multicard Reader One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One slot (Express Chipset One s	Type-model P	rocessor	Memory	Wide- screen display	Discrete graphics	Disk SATA GB ⁸ rpm	RAID	SATA optical	Backlit key- board	PCIe Mini Car WLAN	d Card	WWAI	i Finger N/ print reader	tery	Intel		. ,	Ann Date (mm/yy
2441-3610 17-3200M 4GBst 15.6° FHD K2000M 15000 7200 No DVD-FRW None Intel 8000 Per 2441-3610 17-3200M 4GBst 15.6° FHD K1000M 15000 7200 No DVD-FRW None Intel 8000 per 2441-3610 17-3200M 4GBst 15.6° FHD K1000M 15000 7200 No DVD-FRW None Intel 8000 per 2441-3610 17-3200M 4GBst 15.6° FHD K1000M 15000 7200 No DVD-FRW None Intel 8005 per 3441-3610 17-3200M 4GBst 15.6° FHD K1000M 15000 7200 No DVD-FRW None Intel 8005 per 3441-3610 17-33400M 4GBst 15.6° FHD K1000M 15000 7200 No DVD-FRW None Intel 8005 per 3441-3610 17-33400M 4GBst 15.6° FHD K2000M 15000 7200 No DVD-FRW None Intel 8005 per 3441-3610 17-33400M 4GBst 15.6° FHD K2000M 15000 7200 No DVD-FRW None Intel 8005 per 3441-3610 17-33400M 4GBst 15.6° FHD K2000M 15000 7200 No DVD-FRW None Intel 8005 per 3441-3610 17-33400M 4GBst 15.6° FHD K2000M 15000 7200 No DVD-FRW None Intel 8005 per 3441-3610 17-33400M 4GBst 15.6° FHD K2000M 15000 7200 No DVD-FRW None Intel 8005 per 3441-3610 17-3400M per 3441-3610 17																		
2441-320 II 7-320COM 4GBx 1 5.6° FHD K2000M 15000 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0615 2441-320 II 7-320COM 4GBx 1 5.6° FHD K2000M 15000 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0615 2441-320 II 7-325COM 4GBx 1 5.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0615 2441-320 II 7-325COM 4GBx 1 5.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0615 2441-320 II 7-325COM 4GBx 1 5.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0615 2441-520 II 7-334COM 4GBx 1 5.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0215 2441-520 II 7-334COM 4GBx 1 5.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0215 2415-90 II 7-334COM 4GBx 2 15.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0215 2415-90 II 7-334COM 4GBx 2 15.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0215 2415-90 II 7-334COM 4GBx 2 15.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0215 2415-90 II 7-334COM 4GBx 2 15.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg Flagger 9 VPro Pro 8 4 0215 2415-90 II 7-334COM 4GBx 2 15.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg VPro Pro 8 4 0215 2415-90 II 7-334COM 4GBx 2 15.6° FHD K2000M 15200 7200 No DVD-FW None Intel 6205 upg VPro Pro 8 4 0215 2415-90 II 7-334COM 4GBx 2 15.6° FHD K2000M 15200 7200 No DVD-FW No II 1000 Flagger 1 15.6° FHD K2000M 15200 7200 No DVD-FW No II 1000 Flagger 1 15.6° FHD K2000M 15200 7200 No DVD-FW No II 1000 Flagger 1 15.6° FHD K2000M 15200 7200 No DVD-FW No II 1000 Flagger 1 15.6° FHD K2000 No II 1000 Flagger 1 15.6° FHD K2000M 15200 7200 No II 1000 Flagger 1 15.6° FHD K2000M 15200 7200 No II 1000 Flagger 1 15.6° FHD K2000 Flagger 1 15.6° FHD K2000 Flagger 1 15.6° FHD K2000 Flagger 1 15.6° FHD K2000 Flagger 1 15.6° FHD K2000 Flagger 1 15.6° FHD K2000 Flagger 1 15.6° FHD K2000 Flagger 1 15.6° FHD K2000 F																		
2441-22U 17-382COM 4GBx 16.5° HDx 12000 M 13200 67200 No DVD-FRW None Intel 2025 by 2441-58U 17-374COM 4GBx 16.5° HDx 14000 M 13200 67200 No DVD-FRW None Intel 2025 by 2441-58U 17-374COM 4GBx 16.5° HDx 14000 M 13200 67200 No DVD-FRW None Intel 2025 by 2441-59U 17-374COM 4GBx 16.5° HDx 14000 M 15000 67200 No DVD-FRW None Intel 2025 by 2441-59U 17-374COM 4GBx 16.5° HDx 14000 M 15000 67200 No DVD-FRW None Intel 2025 by 2441-59U 17-374COM 4GBx 16.5° HDx 14000 M 15000 67200 No DVD-FRW None Intel 2025 by 2441-59U 17-374COM 4GBx 16.5° HDx 14000 M 15000 67200 No DVD-FRW None Intel 2025 by 14000 M 15000 67200 N 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 67200 N 15000 M 15000 6720																		
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2441-59L 7-37400M 4GBx1 15.6* HD × (1000M 1x5003 7200 No DVD-FRW None Intel 6205 upg Finger 9 Pro G Pro 4 021* 2441-59L 7-37400M 4GBx2 15.6* FHD K2000M 1x5003 7200 No DVD-FRW None Intel 6300 upg Finger 9 Pro G Pro 4 021* 2441-59L 7-37400M 4GBx2 15.6* FHD K2000M 1x5003 7200 No DVD-FRW None Intel 6300 upg Finger 9 Pro G Pro 4 021* 2441-59L 7-37400M 4GBx2 15.6* FHD K2000M 1x5003 7200 No DVD-FRW None Intel 6300 upg Finger 9 Pro G Pro 4 021* 2441-59L 7-37400M years of the control of the																		
Part - Set 17-37400M 4GBx2 15.6" FHD K2000M 1x500G 7200 No DVD-RW None Intel 6300 upg Processor Mobile workstation: two spridted processor (4 cores, 2.60GHz, 6MB cache), mote from the Mobile workstation: two spridted processor (4 cores, 2.60GHz, 6MB cache), intel from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 feet many controller (up to 1 600MHz), limit from Boat 2.0 GBx 00CHz, 17 f																		
Pocisioning Mobile workstation; two spindles intel® Core "1.72700M processor (4 cores, 2.60GHz, 6MB cache), intel HD Graphics 4000. DDR3 memory controller (up to 1600MHz), intel Turb Core 20 (3.60GHz), 11 technology intel® (100 core 20 (3.60GHz),																G		
Pricessor Intel® Core® 17-37200M processor (4 cores, 2.50GHz, 6MB cache), Intel HD Graphics 4000, DPR memory corntroller (up to 1600MHz), Intel Turb Boost 20 (3.70GHz), HT technology Intel Core 17-38200M processor (4 cores, 2.70GHz, 8MB cache), Intel HD Graphics 4000, DPR memory corntroller (up to 1600MHz), Intel Turb Boost 20 (3.70GHz), HT technology Intel Core 17-38200M processor (4 cores, 2.70GHz, 8MB cache), Intel HD Graphics 4000, DPR memory corntroller (up to 1600MHz), Intel Turb Boost 20 (3.80GHz), HT technology and accore model. 32GB max, four 204-pin SO-DIMM sockets 400 processor (4 cores, 2.80GHz, 8MB cache), Intel HD Graphics 4000, DPR memory corntroller (up to 1600MHz), Intel Turb Boost 20 (3.80GHz), HT technology 4Mc core model. 32GB max, four 204-pin SO-DIMM sockets 400 processor (4 cores, 2.80GHz, 8MB cache), Intel HD Graphics 4000, DPR memory controller (up to 1600MHz), DRR non-perity, dual-channel capable 500 processor (4 cores, 2.80GHz, 8MB cache), Intel HD Graphics 4000, DPR memory controller (up to 1600MHz), DRR non-perity, dual-channel capable 400 processor (4 cores, 2.80GHz, 8MB cache), Intel HD Graphics 4000, DPR memory controller (up to 1600MHz), DRR non-perity, dual-channel capable 500 processor (1400MHz), 204 processor (1x500G 7200) No	DVD±RW	None	Intel 63	00	<u> </u>						
optical All: PC3-1200 1600Mtz DDR3, non-parity, dual-channel capable PC3-1200 1600Mtz DDR3, non-parity, dual-channel capable PC3-1200 1600Mtz DDR3, non-parity, dual-channel capable PC3-1200 1600Mtz DDR3, non-parity, dual-channel capable Optical Some: DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Sim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.06b/s, 2.5° wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None Widescreen display Some: 15.6° (396mm) HD+ (1600v900) color, anti-glare, LED backlight, Some: 15.0° (170 nts, 16.9 aspect ratio, 5001 contrast ratio, 60% Gamut Some: 15.0° (170 nts, 16.9 aspect ratio, 5001 contrast ratio, 65% Gamut None Color calibration Camera None HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, and NVIDIAQ options™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000M or k2000M, PCI Express* x16, 2GB memory, NVIDIAQ outdoor k1000Mor k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M or k2000M		Intel Intel	HD Grap Furbo Boo Core i7-3 B memory Core i7-3 B memory Core i7-3 B memory	hics 4000, Dest 2.0 (3.600) 740QM prody controller (use 1820QM prody controller (use 1840QM prody contr	DDR3 men GHz), HT to cessor (4 up to 1600 cessor (4 up to 1600 cessor (4 up to 1600	nory controller echnology cores, 2.70G MHz), Intel Tu cores, 2.70G MHz), Intel Tu cores, 2.80G MHz), Intel Tu	Hz, 61 Irbo B Hz, 81 Irbo B Hz, 81 Irbo B	MB cache) oost 2.0 (3. MB cache) oost 2.0 (3. MB cache) oost 2.0 (3.	r), , Intel F ,70GHz , Intel F ,70GHz , Intel F), HT tec I D Graph), HT tec I D Graph	hnolog nics 40 hnolog nics 40	000, y 000, y	Genuine Profess Ready some lis • Resc • Passi Preload listed)	e Wir ional to insted) ue ar word ded a	idows 64 stall a id Rec Manag	7 pplice cover ger ation	eations y™ s¹⁴ (onl	¹⁴ (only
Ultrabay SATA disk Sym. Some: Some: Stot State Drive (SSD) / SATA of Golds: 2.5" wide, 7mm high, bottom access Some: MDD / SATA 3.0Gb/s; 2.5" wide, 7mm or 9.5mm high, Active Protection System" All: removable, upgradable, supports the second disk, 5hock Mounted Hard Drive Modescreen display Some: Sol Sate Drive (SSD) / SATA of Golds: 2.5" wide, 7mm or 9.5mm high, Active Protection System" All: removable, upgradable, supports the second disk, 5hock Mounted Hard Drive Modescreen display Some: 15.5" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (39 aspect 100, 5901) contrast ratio, 60% Gamuel Dacklight, 250m; 15.5" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (396mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 15.6" (296mm) HD+ (1600:800) color, anti-glare, LED backlight, 250m; 250m; 250m; 250m; 250m; 250m;	quad-core model: 32GB max, four 204-pin SO-DIMM sockets All: PC3-12800 1600MHz DDR3, non-parity, dual-channel capable Optical Some: DVD burner, 12.7mm Ultrabay Enhanced, removable														essage age Pi	e Cer oduc	nter Plu et Recov	
Misdascreen display Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500: 1 contrast ratio, 60% Gamut 270 nits, 16:9 aspect ratio, 500: 1 contrast ratio, 60% Gamut 270 nits, 16:9 aspect ratio, 500: 1 contrast ratio, 60% Gamut 270 nits, 16:9 aspect ratio, 500: 1 contrast ratio, 95% Gamut 270 nits, 16:9 aspect ratio, 500: 1 contrast ratio, 95% Gamut None Camera None Midday Camera None None None None None None None Non	Ultrabay SATA disk One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ removable, upgradable, supports the second disk, Shock Mounted Hard Drive														t Softv age Sy age Po	vare /sten ower	(fingerp n Updat Manag	e
220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut None HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus NVIDIA Quadro' K1000M or K2000M, PCI Express* *116, 2GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 3840x2160 @60Hz (DisplayPort via optional Mini DP cable); 1920x1200 @60Hz (single-link DVI-1 via optional Mini DP cable); 1920x120	mSATA™ SSD None														ync	Ŭ	C	
Color calibration Camera NovIDIA* Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA Quadro* K1000M or K2000M, PCI Express**x16, 2GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort, supports external analog monitor via VGA DB-15 and digital monitor via Mini DP cable); 3920x1200®60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536®85Hz (VGA) Keyboard TrackPoint** TrackPoint** pointing device, "Press-to-Select," Internet Scroll Bar**, magnifying glass UltraNav**, wide touchpad below keyboard. Tap Zoness, scrolling, multi-fouch Illuminates the keyboard to improve visibility in low-light conditions Case material Battery - life* Battery - life* Battery - lype Battery - lype Battery - lype Battery - lype Battery - life* Batter	display 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight,													n™ lı ays o	nterne f virus	t Sed defi)12
Intel Small Business Advantage Intel Advantage Intel Advantage Intel Advantage Intel Advantage Intel Advantage Intel Small Business Advantage Intel Advantage Intel Advantage Intel Advantage Intel Advantage Intel Small Business Intel Advantage Intel Advantage Intel Advantage Intel Small Business Intel Advantage Intel Advantage Intel Small Business Intel Advantage Int										foous					r Wind	dows		
Grow, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch UltraNav™, and the scroll Bar¹³, magnifying glass Under Sone Security Spill-ress-torible keyboard to improve visibility in low-light conditions 6-cell satring at 5.76 lb (2.62kg); 9-cell: starting at 6.19 lb (2.81kg) 7-cell plus 9-cell Since battery of Glass-fiber phybrid; 9-cell plus 9-cell Since battery (94Whr); up to 12.8 hr; 9-cell plus 9-cell Since battery (94Whr); up to 12.8 hr; 9-cell plus 9-cell Since battery (94Whr); up to 25.6 hr 7-chipset ExpressCard 8-cell starting at 5.76 lb (2.62kg); 9-cell: starting at 6.19 lb (2.81kg) 8-cell plus 9-cell Since battery (94Whr); up to 12.8 hr; 9-cell plus 9-cell Since battery as 2nd battery, HW Authentication models) 8-cell starting at 5.76 lb (2.62kg); 9-cell: starting at 6.19 lb (2.81kg) 8-cell plus 9-cell Since battery (94Whr); up to 12.8 hr; 9-cell plus 9-cell Since battery as 2nd battery, HW Authentication models of cell starting at 6.19 lb (2.81kg) 8-cell size of the scroll plus 9-cell Since battery as 2nd battery, HW Authentication self-generation models of cell starting at 6.19 lb (2.81kg) 8-cell size of the scroll plus 9-cell Sinc	Graphics	Intel NVID suppo suppo Maxii	HD Grap IA Quadr orts exter orts three mum exte	hics 4000 in o K1000M nal analog m independen ernal resolutio	processo or K2000 N nonitor via t displays; on: 3840x	r, and / I, PCI Expres VGA DB-15 a 2160@60Hz (s® x10 nd dig	6, 2GB mei gital monito avPort via c	mory, r via Mi	ni Display	yPort; cable):	;	RapidSymaWindMicropurchCorel	dBood intectows I soft® ase I Wir	HDD VIP Live™ Office oroduc DVD®	Acce Esse 201 t key (DV	elerator entials 0 preloa v to activ D±RW)	aded; vate
Geell: starting at 5.76 lb (2.62kg); 9-cell: starting at 6.19 lb (2.81kg)	TrackPoint® Touchpad	Track Ultral	Point® po Nav™, wio	inting device, de touchpad	, "Press-to below key	-Select," Inter board, Tap Zo	net S nes, s	croll Bar ¹³ , scrolling, m	magnif _\	ing glass		ight	(DVDCorelEdition	±RW DVD on (D\) Movid D±R\	eFac V)	tory® Le	enovo
Chipset ExpressCard One slot (ExpressCard/34) Smart Card Reader Ports One slot (ExpressCard/34) Multicard Reader Ports One Slot (ExpressCard/34) Smart Card Reader Ports One Slot (ExpressCard/34) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) PCIe Mini Card PCIe MLAN⁴ Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 PCIe WWAN Wireless WAN upgradable Carrier None Modem Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Intel Active Management Technology (iAMT) Audio support Intel AMT Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Fingerprint reader For ISV certifications, please visit	Weight ² Case material	6-celi Displ Botto Lithiu 6-celi	: starting ay cover: m: m lon 6-c (57Whr)	at 5.76 lb (2. Carbon-f Glass-fib cell or 9-cell, up to 7.7 hr	.62kg); s iber / Glas er reinford supports o ; 9-o	9-cell: starting s-fiber hybrid: ed plastic with optional Slice ell (94Whr): u	at 6.1 nout p batter p to 1	19 lb (2.81k vaint ry as 2nd ba 2.8 hr;	g)			on						
Ports Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) PCIe Mini Card PCIe WLAN4 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 PCIe WWAN Wireless WAN upgradable None None Bluetooth ™ Bluetooth 4.0 wireless Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Security Chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, athen Teck 400 (4-pin connector; 1394a-2000 standard) 170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant International Warranty Service¹¹ 24 hour x 7 day¹¹¹ toll-free support during the warranty period¹² 24 hour x 7 day¹¹¹ toll-free support during the warranty period¹² 54 hour x 7 day¹¹¹ toll-free support during the warranty period¹² 55 hour yellow for compatible accessories, please go to O-W530 sheet; For Lenovo service²² upgrade options please go to S-TA sheet; For Lenovo service²² upgrade options please go to S-TA sheet; For ISV certifications, please visit	ExpressCard Smart Card R	Mobi One s ead None	le Intel C	M77 Expres essCard/34)	s Chipse	t	p to 2	1N 0.c.										
PCIe WLAN ⁴ Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 PCIe WWAN Carrier None None Bluetooth™ Bluetooth™ Bluetooth™ Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel AMT Intel Active Management Technology (iAMT) Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip Magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹¹ 24 hour x 7 day¹¹¹ toll-free support during the warranty period¹¹² For compatible accessories, please go to O-W530 sheet; For Lenovo service²² upgrade options please go to S-TA sheet; For ISV certifications, please visit		Two U	JSB 3.0,`	two USB 2.0	(one pow	eréd), VGA DI				andard)			170-wa	t AC	adapt	er		
Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Security Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip For compatible accessories, please go to O-W530 sheet; For Lenovo service²² upgrade options please go to S-TA sheet; For ISV certifications, please visit	PCIe Mini Card PCIe WLAN⁴ PCIe WLAN⁴ PCIe WLAN⁴ PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WAN PCIe WWAN PCIe WAN PCIe WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE WINI PCIE X1												ThinkPa magn EPEAT ENERG GREEN RoHS-c Internat 24 hour	ad Ro lesiur M Go iY ST IGUA compl ional x 7 o	oll Cag n fram Id ratir AR® 5 .RD® c iant Warra day¹8 te	e (or ne) ng .0-co ertifi inty S	ompliant ed Service ¹ Se supp	t 17
Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip For Lenovo service ²² upgrade options please go to S-TA sheet; For ISV certifications, please visit	Audio support Security	t HD A volum Powe	udio, Rea ne up, dov r-on pass	altek® ALC32 wn, mute but sword, hard c	02 codec, tons / dua lisk passw	Dolby® Home l array mic, m ord, superviso	ic mut	e button, co	ombo a	udio/mic	W x 2 jack	/	For com	npatik -W53	ole acc	esso et;	ories, plo	
	Security chip Fingerprint rea	Truste	ed Platfor e: Auther	m Module, T Tec fingerpr	CG 1.2-cc int reader	mpliant on palm rest,	swipe	sensor, LE	-			'						
	Limited warrar	nty ¹² 3-yea							able									ioit

ThinkPad® W530 2441 (Optimus) - Windows 8

	Type-model	Drococc	Momory	Wide- screen	Discrete	Disk SATA	RAID	SATA optical	Backlit key- board	PCIe Mini Card			Glo Intel (vPro		/	Ann Date
	Type-Illouei	Processor	wemory	display	graphics	GB [®] rpm	nAID	ориса	Doaru	WLAN	Calib	cens	VPIO	(P)	Preload	(mm/yy)
><	2441-45U	i7-3820QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No	DVD±RW	None	Intel 6205 ²⁸	X-Rite	9	vPro	G \	Win8 Pro64	4 10/12
><	2441-46U	i7-3720QM	4GBx1	15.6" HD+	K1000M	1x500G 7200	No	DVD±RW	None	Intel 6205	X-Rite	9	vPro	G \	Win8 Pro64	4 10/12
	2441-5SU	i7-3740QM	4GBx2	15.6" FHD	K1000M	1x180G SSD	No	DVD±RW	Backlit	Intel 6205	None	9	vPro	\	Win7 Pro6	4 02/13
	2441-5EU	i7-3740QM	4GBx2	15.6" FHD	K1000M	1x500G 7200	No	DVD±RW	Backlit	Intel 6205	None	9	vPro	١	Win7 Pro6	4 02/13
	2441-5DU	i7-3840QM	4GBx2	15.6" FHD	K1000M	1x240G FDE SSD	No	DVD±RW	Backlit	Intel 6205	None	9	vPro	١	Win7 Pro6	4 02/13
	2441-5CU	i7-3740QM	4GBx2	15.6" HD+	K1000M	2x500G 7200	1	None	Backlit	Intel 6205	None	9	vPro	١	Win7 Pro6	4 02/13
	2441-5BU	i7-3740QM	4GBx2	15.6" HD+	K1000M	2x500G 7200	0	None	Backlit	Intel 6205	None	9	vPro	١	Win7 Pro6	4 02/13

- A depot repair service 3-year limited warranty
 Power-packed engineering with Open GL graphics and ISV certifications

Positioning Processor Mobile workstation; two spindles Intel® Core™ i7-3720QM processor (4 cores, 2.60GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology Intel Core i7-3740QM processor (4 cores, 2.70GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.70GHz), HT technology Intel Core i7-3820QM processor (4 cores, 2.70GHz, 8MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.70GHz), HT technology Intel Core i7-3840QM processor (4 cores, 2.80GHz, 8MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.80GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit - Preloaded applications⁵ (only some listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™ - ThinkVantage Prower Manager - Lenovo SimpleTap - Adobe® Reader® - Microsoft® Office 2010 preloaded; purchase product key to activate - Corel® WinDVD® (DVD±RW) - Corel Burn.Now™ Lenovo Edition (DVD±RW) - Corel DVD MovieFactory® Lenovo Edition (DVD±RW) - Windows 8 models - Lenovo Support - Lenovo Companion - Lenovo QuickLaunch - Microsoft® Office 2013 preloaded; purchase product key to activate - PC Device Stage - Cyberlink Power2Go (DVD±RW) - Cyberlink PowerProducer (DVD±RW)
Memory dual-core model: quad-core model: quad-core model: all: 16GB max ⁷ , two 204-pin SO-DIMM sockets 32GB max, four 204-pin SO-DIMM sockets PC3-12800 1600MHz DDR3, non-parity, dual-channel capable Optical Some: DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	
Widescreen display Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut Color calibration Camera Some: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest, LED indicato HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	
Graphics NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA Quadro® K1000M or K2000M, PCI Express® x16, 2GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 3840x2160@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	
Keyboard TrackPoint® 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass Touchpad ThinkLight™ ultraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Lenovo Solution Center Password Manager ThinkVantage System Update
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Norton™ Internet Security (30 days of virus definitions) Skype™
Chipset Mobile Intel QM77 Express Chipset ExpressCard One slot (ExpressCard/34)	
Smart Card Read None Multicard Reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	Supports ThinkVantage® technologies 170-watt AC adapter ThinkPad Roll Cage (one-piece
PCIe Mini Card PCIe WLAN ⁴ PCIe WLAN ⁴ PCIe WWAN Carrier Modem Bluetooth TM Ethernet Intel AMT Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None Bluetooth A.O wireless Intel S2579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel AMT Intel Active Management Technology (iAMT)	magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Security Security chip Fingerprint reader Fingerprint reader Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-W530 sheet; For Lenovo service ²² upgrade options, please go to S-TA sheet; For ISV certifications, please visit
Limited warranty ¹² 3-years /1-yr battery - depot repair service / service upgrades ²² available	www.lenovo.com/support/ISV

ThinkPad® W530 2447 (Optimus) - Onsite

				Wide- screen	Discrete	Disk SATA		SATA	Backlit kev-	PCIe Mini Card	Finger print	Color	Bat-		obal (Ann Date
	Type-model	Processor	Memory	display	graphics		RAID		board	WLAN	reader	calib					mm/yy)
><	2447-3TU	i7-3720QM	4GBx1	15.6" FHD	K1000M	2x500G 7200	1	None	None	Intel 6205 ²⁸	Finger	None	9	vPro	GΡ	Pro 64	06/12
><	2447-3SU	i7-3720QM	4GBx1	15.6" FHD	K1000M	2x500G 7200	0	None	None	Intel 6205	Finger	None	9	vPro	GΡ	Pro 64	06/12
><	2447-2TU	i7-3720QM	4GBx1	15.6" FHD	K2000M	1x500G 7200	No	DVD ±RW	None	Intel 6300 ²⁸	None	X-Rite	9	vPro		Pro 64	06/12
><	2447-2SU	i7-3820QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No	DVD ±RW	None	Intel 6300	Finger	None	9	vPro		Pro 64	06/12
><	2447-23U	i7-3820QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No	DVD ±RW	None	Intel 6205	Finger	None	9	vPro	GΡ	Pro 64	06/12
><	2447-22U	i7-3720QM	4GBx1	15.6" HD+	K1000M	1x320G 7200	No	DVD ±RW	None	Intel 6205	Finger	None	9	vPro	GΡ	Pro 64	06/12
	2447-52U	i7-3840QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No	DVD ±RW	None	Intel 6205	Finger	None	9	vPro		Pro 64	02/13

- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Power-packed engineering with Open GL graphics and ISV certifications
 Microsoft® Office 2010 Product Key Ready (O10PKR)

	Microsoft® Office 2010 Product Key Ready (010PKR)	
Positioning Processor	Mobile workstation; two spindles Intel® Core™ i7-3720QM processor (4 cores, 2.60GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology Intel Core i7-3820QM processor (4 cores, 2.70GHz, 8MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.70GHz), HT technology Intel Core i7-3840QM processor (4 cores, 2.80GHz, 8MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.80GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) ■ Rescue and Recovery™ ■ Password Manager
Memory	dual-core model: 16GB max ⁷ , two 204-pin SO-DIMM sockets 32GB max, four 204-pin SO-DIMM sockets All: PC3-12800 1600MHz DDR3, non-parity, dual-channel capable	Preloaded applications ¹⁴ (only some listed) • Lenovo® Solution Center
Optical Ultrabay SATA disk	Some: DVD burner, 12.7mm Ultrabay Enhanced, removable One bay for removable devices, Ultrabay Slim-compatible, 12.7mm high, bottom access Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive	 Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update
mSATA™ SSD Widescreen	None Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight,	ThinkVantage Power ManagerLenovo Cloud Storage
display Color calibration Camera	220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut Some: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest, LED indicator HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	by SugarSync • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions) • Adobe® Reader®
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA Quadro® K1000M or K2000M, PCI Express® x16, 2GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays; Maximum external resolution: 3840x2160@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)	 Skype™ for Windows Evernote® Intel Small Business Advantage RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded;
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	purchase product key to activate • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.6W" (WxDxH): 14.68" x 9.65" x 1.25-1.40"; 372.8mm x 245.1mm x 31.8-35.6mm 6-cell: starting at 5.76 lb (2.62kg); 9-cell: starting at 6.19 lb (2.81kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Bottom: Glass-fiber reinforced plastic without paint Lithium lon 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication 6-cell (57Whr): up to 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 25.6 hr	Edition (DVD±RW) • X-Rite® Pantone® Color Calibrator (color calibration models)
Chipset ExpressCard Smart Card Read		
Multicard Reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	Supports ThinkVantage® technologies
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	Two PCI Express Mini Card slots Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2 For compatible accessories, please go to O-W530 sheet;
0 .	r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 2 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage	For Lenovo service ²² upgrade options, please go to S-TA sheet; For ISV certifications, please visit
	excluding holidays, next business day response time / service upgrades ²² available	www.lenovo.com/support/ISV

ThinkPad® W530 2447 (Optimus) - Onsite (Windows 8)

Type-model Proce	ssor Memory	Wide- screen y display	Discrete graphics	Disk SATA GB ⁸ rpm	RAID	SATA optical	Backlit key- board	PCIe Mini Card WLAN			Glo Intel vPro	obal (C GMP (P)	G) Preload	Ann Date (mm/yy)
< 2447-45U i7-372						DVD±RW		Intel 6205 ²⁸					Win8 Pro64	
< 2447-46U i7-382 2447-4ZU i7-374						DVD±RW DVD±RW		Intel 6205 Intel 6205	None		vPro		Win8 Pro64 Win7 Pro64	
2447-4YU i7-384									None		vPro		Win7 Pro64	
2447-4XU i7-374 2447-4WU i7-374					0	None None		Intel 6205 Intel 6205	None		vPro vPro		Win7 Pro64 Win7 Pro64	
2447-5KU i7-384	0QM 4GBx1	15.6" FHD	K2000M	1x500G 7200		$DVD \pm RW$	None	Intel 6205	X-Rite	9	vPro	GΡ	Win8 Pro64	05/13
2447-5JU i7-384 2447-5HU i7-384						DVD±RW DVD±RW		Intel 6205 Intel 6205					Win8 Pro64 Win8 Pro64	
2447-5GU i7-384	0QM 4GBx2	15.6" HD+	K2000M	1x500G 7200		DVD±RW		Intel 6205					Win8 Pro64	
2447-5FU i7-374 Positioning		station; two si		1X500G 7200	INO	DVD±RW	ivone	Intel 6205					Win8 Pro64 ing system	
Processor	Intel® Core™ Intel HD Gra Intel Turbo B Intel Core i7 DDR3 memo Intel Core i7 DDR3 memo Intel Core i7	i7-3720QM aphics 4000, oost 2.0 (3.60 arguments) are controller or contr	processo DDR3 me DGHz), HT ocessor (4 (up to 160 ocessor (4 (up to 160 ocessor (4	r (4 cores, 2.60Gi mory controller (up technology I cores, 2.70GHz, 0MHz), Intel Turbo I cores, 2.70GHz, 0MHz), Intel Turbo I cores, 2.80GHz, 0MHz), Intel Turbo	6MB Boos 8MB Boos 8MB	cache), In the cache), In the cache), In the cache), In the cache), In the cache), In the cache), In the cache), In the cache), In the cache), In the cache)	tel HD (GHz), H tel HD (GHz), H tel HD (T technology Graphics 400 T technology Graphics 400	00, 00, 00, lis	Som Som reloa sted)	e: Win prei dow Win e: Win	dows nstall ngrad dows dows	[®] 7 Professided through de rights in 8 Pro 64-bi 8 Pro 64-bi ations ⁵ (only	onal 64 t
Memory	dual-core mo	odel: 16GB	max ⁷ , two	204-pin SO-DIMM	1 sock	cets			-	Lend	ovo® M	essag	ge Center Pl	
	quad-core m All:			204-pin SO-DIMM MHz DDR3, non-			nel capa	able	•	Acce	ess Co	nnect	ions™	
Optical	Some: DVD	burner, 12.7r	nm Ultrab	ay Enhanced, rem	ovabl	e O Zasasa bisa					kVanta ovo Sin		ower Manag ap	er
Ultrabay SATA disk	Some: Solid	l State Drive ((SSD) / SA	abay Slim-compat TA 6.0Gb/s, 2.5" v	vide, i	7mm high					oe® Re osoft®		e 2010 prelo:	aded:
	Some: HDD All: remo) / SATA 3.0G ovable, upgrad	b/s, 2.5" w dable, sup	ide, 7mm or 9.5m ports the second o	m hig disk, S	h, Active Pi Shock Moui	otection nted Har	System™ d Drive		purc	hase p	roduc	ct key to acti (DVD±RW)	vate
mSATA™ SSD	None	. , 0	. (1000	000)		ED 1 11			·	Core	l Burn	.Now	™ Lenovo E	dition
Widescreen display	220 Some: 15.6	nits, 16:9 ásp " (396mm) F ı	ect ratio, 5 JII HD (19	900) color, anti-gl 00:1 contrast ratio 20x1080) color, a	o, 60% nti-gla	Gamut are, LED ba			•	Core	D±RW) el DVD on (DV	Movie	eFactory® Le W)	enovo
Color calibration Camera	Some: Pant	one® color cal	ibrator by	00:1 contrast ratio X-Rite® color calib , low light sensitive	ratior	sensor in			• TOIL	Lend	dows 8 ovo Su ovo Co	port		
Graphics	Intel HD Gra NVIDIA Qua supports exte supports thre Maximum ex	aphics 4000 i dro® K1000M ernal analog i ee independe aternal resolut	n processor or K2000 monitor via nt displays tion: 3840	M, PCI Express® a VGA DB-15 and	x16, 2 digita splayF	RGB memo I monitor vi	ry, a Mini D onal Min	isplayPort;	•	Micro purc PC I Cybe Cybe	hase p Device erlink F	Office roduc Stage ower ower	2013 preloate 20	vate
Keyboard TrackPoint® Touchpad ThinkLight™	TrackPoint® p UltraNav™, v	oointing device vide touchpac	e, "Press-t I below ke	spill-resistant, mu o-Select," Internet yboard, Tap Zones visibility in low-ligh	Scro s, scro	II Bar¹³, ma olling, multi	gnifying	ıl LED backli glass		Lend Pass Thin	word I kVanta	ution //anag	vstem Updat	te
Dimensions ³ Weight ² Case material Battery - type	6-cell: startin Display cove Bottom:	g at 5.76 lb (2 er: Carbon- Glass-fi	2.62kg); -fiber / Gla ber reinfor	.25-1.40"; 372.8m 9-cell: starting at (ss-fiber hybrid; ced plastic withou optional Slice bat	6.19 I t pain	b (2.81kg) t			•	mod Lend by S	els) ovo Clo ugarSy	ud St	vare (fingerp torage t Security	orint
Battery - life ¹⁰	6-cell (57Wh 9-cell plus 9-	r): up to 7.7 h -cell Slice bat	ir;	<i>cell (94Whr):</i> up to hr, 0A36304): up to	12.8	hr;				(30 d Skyp		virus	definitions)	
Chipset ExpressCard	One slot (Ex	QM77 Expre pressCard/34		ŧ.										
Smart Card Read Multicard Reader Ports	4-in-1 reader Two USB 3.0), two USB 2.	0 (one pov	XC) vered), VGA DB-1: re 400 (4-pin conn				ard)		•••	rts Thi		ntage® techn	ologies
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN Carrier Modem Bluetooth TM Ethernet Intel AMT Audio support	Two PCI Exp 11a/b/g/n, PC Wireless WA None None Bluetooth 4.0 Intel 82579L Intel Active N HD Audio, Ro	oress Mini Cal Cle Half Mini N upgradable D wireless M Gigabit Ne Management ealtek® ALC3	rd slots Card, Intel twork Con Technology 202 coded	Centrino® Advance nection (Lewisville y (iAMT) c, Dolby® Home Th	ed-Ne), PH	6205, 2x2 Y, PCle x1 8 v4 / stere	o speake	ers, 1W x 2 /	E E G R In	hinkP mag PEAT NERO REEO OHS- oterna 4 hou	Pad Ro nesiun TM Gol GY STA NGUAI compli tional Ir x 7 d	I Cag n fram d ratir AR® 5 RD® c ant Warra ay18 to	je (one-piece ne)	t 17
Security Security chip	Power-on pa Trusted Platf	ssword, hard orm Module,	disk pass TCG 1.2-c		assw	ord, securit	y keyhol		go	o to C)-W53) she	•	
Fingerprint reader Limited warranty ¹²	Power On Au	uthentication,	supports t	he security chip				ane	pl	ease	go to	S-TA	e ²² upgrade (sheet; ns, please v	
See footnotes for m	excluding ho	lidays, next b		ay response time/									upport/ISV	Lenovo

ThinkPad® W530 Accessories

Memory 2GB PC3-12800 DDR3 SODIMM 4GB PC3-12800 DDR3 SODIMM 8GB PC3-12800 DDR3 SODIMM	0A65722 ann 06/05/12 0A65723 ann 06/05/12 0A65724 ann 06/05/12	ThinkPad Battery 70+ (6-cell) OA36302 ann 06/05/12 ThinkPad Battery 70++ (9-cell) OA36303 ann 06/05/12 ThinkPad Battery 28++ (9 cell, slice) ⁴³ OA36304 ann 06/05/12 43 To be used along with system battery for all-day computing;
Ultrabay Enhanced 12.7mm Serial ATA Hard Drive 12.7mm Bay Adapter III DVD Burner Ultrabay Enhanced Drive III	0A65623 ann 02/28/12 0A65625 ann 06/05/12	attaches under ThinkPad using docking connector (not supported when using <i>ThinkPad Mini Dock Plus Series 3 w/ USB 3.0 - 170W 433835U</i>) ThinkPad External Battery Charger ⁴⁴ 40Y7625 <i>ann</i> 09/20/05
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive 500GB 5400rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 1TB 5400rpm SATA 3.0Gb/s 9.5mm 4K HDD ⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹	0B47309 ann 12/11/12 0A65631 ann 06/05/12 0A65632 ann 06/05/12 0A65633 ann 06/05/12 0A65635 ann 06/05/12	44 Requires the <i>ThinkPad 90W AC Adapter</i> 40Y7659 or the adapter provided with the system. More information at www.lenovo.com/alldaycomputing ThinkPad 170W AC Adapter for W520, W530 0A36227 ann 03/01/11 More info at www.lenovo.com/support/poweradapters
320GB 7200rpm SATA 3.0Gb/s 7mm Self Encrypting (SED) OPAL Capable HDD ⁴¹ 128GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹ 180GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹ 256GB 2.5" SATA 6.0Gb/s OPAL-capable SSD ⁴¹ ⁴¹ Can be used as the main HDD or with Serial ATA Hard Drive 12.7mm Bay Adapter III 0.	0A65636 ann 08/21/12 0A65629 ann 06/05/12 0A65630 ann 06/05/12 0A65620 ann 05/15/12 A65623 in the Ultrabay.	Carrying Cases Up to 15.6" widescreen models: ThinkPad 15W Case Sleeve 51J0477 ann 08/18/09 Lenovo Messenger Max 41U5253 ann 05/01/07 Lenovo Performance BackPack 41U5254 ann 05/01/07 ThinkPad Business Topload Case 43R2476 ann 05/13/08
USB 2.0 Portable 500GB Hard Disk USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive USB 3.0 Secure 1TB Hard Drive Lenovo Slim USB Portable DVD Burner Wireless WAN (Mini PCI Express)	45K1690 ann 05/26/09 0A65619 ann 11/29/11 0A65616 ann 11/29/11 0A65621 ann 08/28/12 0A33988 ann 06/14/11	ThinkPad Business Backpack 43R2482 ann 05/13/08 ThinkPad Deluxe Expander Case 43R2478 ann 05/13/08 ThinkPad Executive Leather Case 43R2480 ann 05/13/08 Lenovo Sport Backpack - Red 0A33896 ann 02/28/12 Lenovo Sport Messenger - Red 0A33898 ann 02/28/12 Lenovo Sport Backpack - Blue 0B47298 ann 08/28/12
Only WWAN upgradable models: ThinkPad Gobi™ 3000 Mobile Broadband	0A36185 ann 04/12/11	Lenovo Sport Slimcase - Blue 0B47300 ann 08/28/12 Lenovo Sport Messenger - Blue 0B47299 ann 08/28/12 Lenovo Sport Backpack - Grey 0B47301 ann 08/28/12 Lenovo Sport Slimcase - Grey 0B47303 ann 08/28/12
ThinkPad Expansion Lenovo® Essential Notebook Stand TP Mini Dock Plus Series 3 w/ USB 3.0 - 170W	45J9292 ann 05/12/09 433835U ann 06/05/12	Lenovo Sport Slimcase - Grey 0B47303 ann 08/28/12 Lenovo Sport Messenger - Grey 0B47302 ann 08/28/12 More information at www.lenovo.com/support/cases
Keyboard TrackPoint Cap Collection Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad Preferred Pro USB Keyboard Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard Lenovo USB Smartcard Keyboard SWireless via 2.4GHz technology using a micro Mouse Lenovo Optical Mouse (USB)	06P4069 ann 05/21/03	Monitors ThinkVision® L1711p 17" (VGA, DVI-D) 5047HB2 ann 10/20/09 ThinkVision L1900p 19" (VGA, DVI-D) 4431HE1 ann 11/11/08 ThinkVision L1952p Wide 19" (VGA, DP, DVI-D)® 2448MB6 ann 09/13/11 ThinkVision L2250p Wide 22" (VGA, DP) 2572HB6 ann 10/20/09 ThinkVision L2251x Wide 22" (VGA, DP) 2578HB6 ann 10/20/09 ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)® 2572MB6 ann 10/20/09 ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)® 2572MB6 ann 09/13/11 ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)® 4420MB2 ann 09/13/11 ® DisplayPort cable is not included. ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0) 1452DS6 ann 08/16/11 ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Case (USB 2.0) 1452DB6 ann 08/16/11
Lenovo Laser Mouse (USB) ThinkPad USB Laser Mouse Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical) ThinkPad Bluetooth Laser Mouse Lenovo Wireless Laser Mouse	41U3074 ann 01/23/07 57Y4635 ann 12/15/09 31P7405 ann 08/27/02 31P7410 ann 06/04/02 0A36407 ann 06/26/12 0A36188 ann 12/20/11	More information at www.lenovo.com/support/monitors www.lenovo.com/support/thinkpad/optimus-monitors Monitor Accessories ⁴⁶ Lenovo USB 3.0 to DVI/VGA Monitor Adapter 0B47072 ann 08/14/12 Lenovo Mini-DisplayPort to VGA Monitor Cable 0A36536 ann 05/17/11
Multimedia ThinkPad In-Ear Headphones with microphone	57Y4488 ann 01/07/10	Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Mini-DisplayPort to Single-link DVI Monitor Cable 0847090 ann 06/26/12 0847091 ann 07/24/12 0836190 ann 06/26/12
Modem USB 2.0 Lenovo Modem	43R1814 ann 02/26/08	Kensington MicroSaver Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 73P2582 ann 12/29/03 45K1620 ann 09/30/08 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09
Security 3M 15.6W Privacy Filter from Lenovo Kensington® MicroSaver® Cable Lock Kensington Twin Head Cable Lock Lenovo Security Cable Lock USB Gemplus GemPC Smart Card Reader	0A61771 ann 04/05/11 73P2582 ann 12/29/03 45K1620 ann 09/30/08 57Y4303 ann 08/24/10 41N3040 ann 02/21/06	46 Compatible on selected Lenovo and ThinkVision monitors. More information at www.lenovo.com/support/monitoraccessories For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories
		www.lenovo.com/support/accessories Product specifications on Lenovo Support www.lenovo.com/accessoriesguide
		Option Compatibility Matrix (OCM) and accessory brochures www.lenovoquickpick.com An Options Compatibility Configurator for Lenovo systems
		7.1. Options compatibility configurator for Echovo systems





Lenovo® ThinkPad X131e



Lenovo ThinkPad X131e



Lenovo ThinkPad X131e



Lenovo ThinkPad X131e



Lenovo ThinkPad X131e



Lenovo ThinkPad X131e

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue- 1		Preload	Ann Date (mm/yy)
3368-55U	i3-3227U	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	ВТ	6	Win8 Pro64	02/13
3368-53U	i3-3227U	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	02/13
3368-4UU	i3-3227U	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	02/13
3368-4SU	i3-3227U	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	02/13
3368-4RU	i3-3227U	2GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	02/13
3368-4QU	i3-3227U	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 64	02/13
3368-4MU	Cel 1007U	2GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 64	02/13
3368-4HU	Cel 1007U	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	02/13
3368-4FU	Cel 1007U	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	02/13
3368-48U	Cel 1007U	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	02/13
3368-46U	Cel 1007U	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	02/13
3368-44U	Cel 1007U	2GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	02/13
3368-3PU	Cel 1007U	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	Gobi 3000	select	Black	None	BT	6	Win8 Pro64	05/13
3368-3NU	Cel 1007U	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	Gobi 3000	select	Black	None	BT	6	Win8 Pro64	05/13
3368-3MU	i3-3227U	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	Gobi 3000	select	Black	None	BT	6	Win8 Pro64	05/13
3368-3LU	i3-3227U	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	Gobi 3000	select	Black	None	BT	6	Win8 Pro64	05/13

 \bullet Small and medium business (SMB) model(s), part of the US TopSeller $^{\text{\tiny TM}}$ Program

Positioning Entry ultraportable for excellent usefulity and reliability; one enindle	Proloaded enerating system ²⁰
Positioning Processor Pro	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory 8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller	- Some: Windows 8 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Optical SATA disk None (use optional USB-based optical drive) Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm, upgradable, Active Protection System™	listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery
mSATA™ SSD None	Access Connections™
Widescreen display Camera 11.6" (295mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	ThinkVantage Power Manager Microsoft® Office 2010 preloaded; purchase product key to activate
Graphics Intel HD Graphics or Intel HD Graphics 4000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Maximum external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded;
Keyboard TrackPoint® Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad ThinkLight™ Touch pad TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch None	 purchase product key to activate PC Device Stage All models Lenovo Solution Center
Dimensions ³ Weight ² Case color Case material Battery - ltie ¹⁰ Battery - life ¹⁰ 11.6W" (WxDxH): 11.6" x 8.5" x 1.27"; 293.4mm x 216mm x 32.3mm 6-cell: from 3.92 lb (1.78kg) Midnight black or Heatwave red (top); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell, HW Authentication 6-cell (62.4Whr): up to 8.5 hr	Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync
Chipset Mobile Intel HM77 Express Chipset Multicard reader ExpressCard Hone Mobile Intel HM77 Express Chipset 4-in-1 reader (MMC, SD, SDHC, SDXC) None	● Skype™
Ports Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	Supports ThinkVantage® technologies
PCIe Mini Card PCIe WLAN⁴ PCIe WLAN⁴ PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe WWAN PCIe Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS	65-watt AC Adapter EPEAT™ Gold rating (except Celeron models) ENERGY STAR® 5.0-compliant (except Celeron models)
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection None HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 /	GREENGUARD® certified (except Celeron models) ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
stereo speakers, 2 watt x 2 / monaural digital microphone, combo audio/mic jack Security Security chip Trusted Platform Module, TCG 1.2-compliant Trusted Platform Module, TCG 1.2-compliant	For compatible accessories, please go to O-X131-E sheet;
Fingerprint reader None Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

			\A/: -I -		Diele	DOI-	DOI: Mini Oned			Finance.		Dat		A			
Type-model	Processo	r Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA		Top color	Finger print			Preload	Ann Date (mm/yy)			
					•	TP 11a/b/g/n											
			11.6" HD 11.6" HD	720p 720p	320G 7200 320G 7200	TP 11a/b/g/n	WWAN upg	None	Black Black	None None	BT BT	6	Win8 Pro64 Win7 Pro64	02/13			
			11.6" HD		128G SSD	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	02/13			
3367-9DU			11.6" HD		128G SSD	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64				
3367-9CU			11.6" HD		320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64				
3367-9BU			11.6" HD	_	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64				
	i3-3227U	4GBx1	11.6" HD		320G 7200	TP 11a/b/g/n TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64				
	i3-3227U Cel 1007l	4GBx1 J 4GBx1	11.6" HD 11.6" HD	720p 720p	320G 7200 320G 7200	TP 11a/b/g/n	WWAN upg WWAN upg	None None	Black Black	None None	BT BT	6	Win7 Pro64 Win7 Pro64				
3367-8HU		4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	Gobi 3000	select		None	BT	6	Win8 Pro64				
3367-8GU			11.6" HD	720p	128G SSD	TP 11a/b/g/n	Gobi 3000	select		None	BT	6	Win8 Pro64	05/13			
			11.6" HD	720p	320G 7200	TP 11a/b/g/n	Gobi 3000	select		None	BT	6	Win8 Pro64				
3367-8EU	i3-3227U	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	Gobi 3000	select		None	BT	6	Win8 Pro64	05/13			
Positioning	En	try ultrapori	table for exc	ellent us					ating system								
Processor						50GHz, 2MB c	ache), Intel HD) Graph	ics,	- So			ws® 7 Profess	ional 64			
			y controller			0GHz, 3MB ca	obo) Intol HD	Granhi	oc 4000				alled through rade rights in				
					(2 cores, 1.9 600MHz), HT		che), inter no	Grapin	CS 4000,				vs 8 Pro 64-b	it			
Memory	8G	B max ⁷ / P(C3-12800 1	600MHz	DDR3, non-p	parity,				- So	me: W	/indo	ws 8 Pro 64-b	it			
					n SO-DIMM so n for process	ockets ors with 1333N	/IHz DDR3 mer	nory co	ntroller	Prelo		appli	i cations ⁵ (onl	y some			
Optical	Noi	ne (use opt	ional USB-b	pased op	tical drive)						ndows						
SATA disk						, 2.5" wide, 7m ide, 7mm, upgra							age Center P				
	301		Protection S			ide, /iiiii, upgi	auabie,						Product Reco	overy			
mSATA™ SS	SD No												Power Manag	ger			
Widescreen						glare, LED bac	klight,				novo S						
display					contrast ratio	onoitivo food tr	acking fixed fo	0110					ce 2010 prelouct key to act				
Camera						ensitive, face tr	acking, fixed to	cus		٠. ا	ndows	•	•	ivato			
Graphics					aphics 4000 a VGA DR-15	in processor, connector and	1				novo S						
	dig	tal monitor	support via	. HDMI™	(supporting	HDCP to outpu	it protected cor	itent);			novo C						
	sup	ports dual	independer	nt display	' ;					 Lenovo QuickLaunch Microsoft® Office 2013 preload 							
					,)@75Hz; 1920:	x1200 (HDMI)@	260Hz		• Microsoπ Office 2013 preio purchase product key to acti							
Keyboard TrackPoint®			sistant, multi		n keys et Scroll Bar ¹³					1 '	mode		dot key to dot	ivato			
Touch pad						d, multi-touch							on Center				
ThinkLight™					,	-,					ssword						
Dimensions	³ 11.	6W" (WxD)	<i>(H):</i> 11.6" :	x 8.5" x	1.27"; 293.4r	mm x 216mm x	32.3mm			• <u>T</u> h	inkVar	tage	System Upda	ate			
Weight ²			92 lb (1.78k		\						igerpri idels)	nt So	ftware (finger	print			
Case color Case mater			or Heatwav utadiene-St		op); black bott	iom						loud	Storage				
Battery - typ			cell, HW Au							by	Sugar						
Battery - life	e ¹⁰ 6-c		<i>nr):</i> up to 8.5							_ ∙ Sk	уре™						
Chipset			IM77 Expre														
Multicard re ExpressCar	ader 4-ır d Noı		MMC, SD, S	SDHC, S	DXC)												
Ports			one powere	ed USB 2	2.0, external n	nonitor (VGA D	B-15, HDMI), e	thernet	(RJ-45)	Supr	orts T	hinkV	antage® techi	nologies			
PCIe Mini C			ess Mini Ca			`	, ,,		,		att AC						
PCIe WLAN						/g/n, 2x2, Wi-F	i + Bluetooth co	ombo ac	lapter		AT™ G						
PCIe WWAI			ss WAN up			O object DCIo	Mini Card			(ex	cept C	Celero	n models)				
	301				DMA/HSPA, (0 chipset, PCIe	Willi Card,						5.0-complia	nt			
Carrier	Soi					orint®, contract i	equired with se	ervice pi	rovider				on models) ® certified				
Modem	No		المسادة المسادد		: \A/: E: B:	-44		•		(ex	cept C	Celero	on models)				
Bluetooth™ Ethernet					in Wi-Fi + Blu ork Connectic			ROH	S-com	plian	t ·	- 17					
Intel AMT	No	ne	J							Inter	nationa	al Wa davi	rranty Service 8 toll-free sup	port			
Audio suppo	ort HD	Audio, Rea				⁄anced Audio™							ranty period ¹²				
Soourity						icrophone, com visor password							ccessories, p				
Security Security chi			m Module,			visui password	i, security keyn	OIE .			O-X13			icase			
Fingerprint i										1 -			ce ²² upgrade	options,			
Limited war	Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available please go to S-TA sheet																
See footnote	s for more	detailed info	rmation										(17.10)	Lenovo			

ThinkPad® X131e 3372 (AMD) - TopSeller

Type-mode	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue- tooth		Preload (Ann Date mm/yy)
≈ 3372-29U	E-300	2GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	ВТ	6	Prem 64	07/12
≈ 3372-2AU	E-300	2GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
≈ 3372-2BU	E-300	2GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
3372-2CU	E2-1800	2GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Prem 64	07/12
3372-2DU	E2-1800	2GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
3372-2EU	E2-1800	2GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
3372-2FU	E2-1800	4GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
3372-2GU	E2-1800	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
≈ 3372-2UU	E-300	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	09/12
	E-300	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	09/12
3372-2PU	E2-1800	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	09/12
3372-2JU	E2-1800	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	Gobi 3000	select	Black	None	BT	6	Pro 64	10/12
3372-3PU	E1-1200	2GBx1	11.6" HD	720p	320G 5400	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Prem 64	04/13
3372-3NU	E1-1200	4GBx1	11.6" HD	720p	500G 5400	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Prem 64	04/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor Entry ultraportable for excellent usability and reliability; one spindle AMD Accelerated Processor E-300 (2 cores, 1.30GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz) AMD Accelerated Processor E1-1200 (2 cores, 1.40GHz, 1MB L2 cache), integrated AMD Radeon HD 7310 Graphics, integrated DDR3 memory controller (up to 1066MHz) AMD Accelerated Processor E2-1800 (2 cores, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)	Preloaded operating system ²⁰ Some: Genuine Windows® 7 Home Premium 64 Some: Genuine Windows 7 Professional 64 Ready to install applications¹⁴ (only some listed) ■ Rescue and Recovery™ ■ Password Manager
Memory 8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, two 204-pin SO-DIMM sockets * System clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller	Preloaded applications ¹⁴ (only some listed) • Lenovo® Solution Center
Optical None (use optional USB-based optical drive) SATA disk Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm, upgradable, Active Protection System™	Lenovo Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage System Update
MSATA™ SSD None Widescreen display Camera None 11.6" (295mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap
Graphics AMD Radeon HD 6310, 7310, or 7340 graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Maximum external resolution: 1920x1080 (VGA or HDMI)	Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader® Skype™ for Windows Evernote® Symantec™ VIP
Keyboard TrackPoint® TrackPoint pointing device, Internet Scroll Bar¹³ Touch pad ThinkLight™ Tone ThinkLight™ Tone ThinkLight™ Tone ThinkLight™ Tone ThinkLight™ Tone ThinkLight™ Tone ThinkLight™ TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch None	Windows Live™ Essentials Microsoft® Office 2010 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case color Case material Battery - life ¹⁰ Battery - life ¹⁰ 11.6W" (WxDxH): 11.6" x 8.5" x 1.27"; 293.4mm x 216mm x 32.3mm 6-cell: from 3.92 lb (1.78kg) Midnight black or Heatwave red (top); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell, HW Authentication 6-cell (62.4Whr): up to 8.5 hr	
Chipset Multicard reader ExpressCard Ports AMD A68M FCH Chipset 4-in-1 reader (MMC, SD, SDHC, SDXC) None Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45) PCIe Mini Card Two PCI Express Mini Card slots	
PCIe Mini Card PCIe WLAN⁴ PCIe WLAN⁴ PCIe WLAN⁴ PCIe WWAN PCIe WWAN PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS	Supports ThinkVantage® technologies 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Carrier Modem Bluetooth™ Ethernet Audio support Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider None Bluetooth™ Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2 watt x 2 / monaural digital microphone, combo audio/mic jack	GREENGUARD® certified ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security Power-on password, hard disk password, supervisor password, security keyhole None	For compatible accessories, please go to O-X131-E sheet;
Fingerprint reader None Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® X131e 3372 (AMD) - TopSeller (Windows 8)

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpr	m	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color		Blue-		Preload	Ann Date (mm/yy)
< 3372-32U	E2-1800	4GBx1	11.6" HD	720p	320G 720		TP 11a/b/g/n	Gobi 3000	select	Black	None	ВТ	6	Win7 Pro64	
	E-300	4GBx1	11.6" HD	720p	320G 720		TP 11a/b/g/n	Gobi 3000	select	Black	None	BT	6	Win7 Pro64	
	E2-1800	4GBx1	11.6" HD	720p	128G SS		TP 11a/b/g/n	WWAN upg	None	Black	None	ВТ	6	Win7 Pro64	
3372-2XU	E-300	4GBx1	11.6" HD	720p	128G SS	D	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	10/12
< 3372-2WU	E-300	2GBx1	11.6" HD	720p	320G 720	00	TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	10/12
3372-2VU	E2-1800	4GBx1	11.6" HD	720p	320G 720	00	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	10/12
3372-2TU	E-300	4GBx1	11.6" HD	720p	320G 720		TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	10/12
3372-2SU	E2-1800	4GBx1	11.6" HD	720p	320G 720		TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	
< 3372-2RU	E-300	2GBx1	11.6" HD	720p	320G 72		TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	
	E2-1800	4GBx1	11.6" HD	720p	128G SS		TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	
	E-300	4GBx1	11.6" HD	720p	128G SS		TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	
	E1-1200	4GBx1	11.6" HD	720p	320G 720		TP 11a/b/g/n	WWAN upg	None	Black	None BT 6 Win8 Pro64 02/				
3372-3LU	E1-1200	2GBx1	11.6" HD	720p	320G 720		TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	
	E1-1200	4GBx1	11.6" HD	720p	128G SS		TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win8 Pro64	
3372-3JU	E1-1200	4GBx1	11.6" HD	720p	128G SS		TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	
	E1-1200	2GBx1	11.6" HD	720p	320G 720		TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Bro64	02/13
	E1-1200	2GBx1 2GBx1	11.6" HD	720p	320G 720		TP 11a/b/g/n TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	
	E1-1200	-	11.6" HD	720p	320G 720		TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Win7 Pro64	
3372-3QU	E1-1200	2GBx1	11.6" HD	720p	320G 540	00	TP TTa/b/g/ft	WWAN upg	None	Black	None	ВТ	6	Win7 Pro64	04/13
Memory Optical SATA disk MSATA T™ SS Widescreen display Camera Graphics Keyboard TrackPoint® Touch pad ThinkLight™ Dimensions® Weight² Case color Case materi	inte AM inte inte AM inte inte AM inte inte * Sy Nor Sor Sor * Sy AM exte digi sup Max 6-rc Trac Ultr Nor 11.6 6-cc Mid	grated DID Accele grated AN grated DID Accele grated AN grated DID Accele grated AN grated DID Accele grated AN grated DID Accele grated An grated DID Accele grated Activities and Activ	MD Radeon DR3 memor rated Proce MD Radeon DR3 memor DR3	y control essor E: HD 7310 y control essor E2 HD 7340 y control 1600MH: r process -based o (SSD) / SATA 3 System 7310, or support v a HDMI to till es, Intern uchpad I x 8.5" x kg) ave red (**	ler (up to 1-1200 (2 of 1-1200	1066 core s, 11066 core s, 1333 con-r, 1066 e) Gb/s5" w anticatio ght s phic B-18 ting VGA	es, 1.40GHz, 1 6MHz) es, 1.70GHz, 1 3MHz) parity, two 204 6MHz or 1333N es, 2.5" wide, 7r ide, 7mm, upg -glare, LED basensitive, face of connector ar HDCP to outp	acklight, tracking, fixed for or, od out protected con	sockets nory cor	itroller	- Sol Prelc listed - Wil - Lei - Thi - Aic - Wil - Lei - Lei - Mic - pui - All - Lei - Fin mo - Lei - Fin mo - Lei - Dei - Thi	Mme: Wme: Wme: Wme: Wme: Wme: Wme: Wme: Mme: Wme: Mme: Wme: Mme: Mme: Mme: Mme: Mme: Mme: Mme: M	/indov	age Center P Product Reco- citions TM Power Manage ce 2010 prelo uct key to act odels int anion aunch ce 2013 prelo uct key to act on Center hager System Upda ftware (finger Storage	oit ly some Plus overy ger oaded; tivate
Battery - typ Battery - life	e Lith	ium Ion 6 <i>ell (62.41</i> 1	-cell, HW Ai <i>/hr):</i> up to 8	uthentica .5 hr											
Chipset Multicard rea ExpressCard	ader 4-in	-1 reader	FCH Chipse (MMC, SD,		SDXC)										
Ports			, one power	ed USB	2.0, exteri	nal r	monitor (VGA I	DB-15, HDMI), 6	ethernet	(RJ-45)					
PCIe Mini C PCIe WLAN	4 Sor	<i>ne:</i> 11b/g	ress Mini Ca g/n, PCIe Ha	alf Mini C	ard, Think	(Pad	d 11b/g/n, 1x1,	Wi-Fi + Bluetoo 2x2, Wi-Fi + BT	oth comb	oo adapter	Supp	orts T	hinkV	antage® tech	nologies
PCIe WWAN	l Sor	ne: Wirel ne: Wirel	ess WAN up less WAN, C O Rev. A, G	ogradabl Qualcomr	e n® Gobi™	30/1100		EPE/	att AC	iold ra		nt			
Carrier	Sor							required with s	ervice p	rovider				© certified	
Modem	Nor	ne		•	•		•	·	6			S-corr			
Bluetooth™	Blue	etooth 4.0					uetooth combo	adapter			Interr	nation	al Wa	rranty Service	e ¹⁷
Ethernet			_8111F Giga					/			24 hc	our x 7	day18	8 toll-free sup	port
Audio suppo							vanced Audio		a al c					ranty period ¹²	
Security								mbo audio/mic ja			For or	nmnat	ihla a	ccessories, p	lease
Security Security chir			ssword, nan	u uisk þa	issworu, S	upei	visui passwoi	d, security keyh	IOIE			0-X13			ioase
Fingerprint r											1 -			ce ²² upgrade	ontions
Limited warr			nt renair cor	vice / so	vice upar	adoo	22 available							A sheet	υριιστίδ,
Soo footnotor				vice / 561	vice upgra	aues	avaliable				picas	o go il	J J 1/		∩ Lonovo

	Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCle Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue- tooth		Preload	Ann Date (mm/yy)
><	3371-2HU	E-300	2GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	ВТ	6	Prem 64	07/12
><	3371-2JU	E-300	2GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
><	3371-2KU	E-300	2GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
	3371-2LU	E2-1800	2GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Prem 64	07/12
	3371-2MU	E2-1800	2GBx1	11.6" HD	720p	320G 7200	TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
	3371-2NU	E2-1800	2GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
	3371-2PU	E2-1800	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	WWAN upg	None	Black	None	BT	6	Pro 64	07/12
	3371-2RU	E2-1800	4GBx1	11.6" HD	720p	320G 7200	TP 11a/b/g/n	Gobi 3000	select	Black	None	BT	6	Pro 64	10/12

• Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Entry ultraportable for excellent usability and reliability; one spindle AMD Accelerated Processor E-300 (2 cores, 1.30GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz) AMD Accelerated Processor E2-1800 (2 cores, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)	Preloaded operating system ²⁰ Some: Genuine Windows® 7 Home Premium 64 Some: Genuine Windows 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, two 204-pin SO-DIMM sockets * System clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller	 Rescue and Recovery™ Password Manager
Optical SATA disk	None (use optional USB-based optical drive) Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm, upgradable Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm, upgradable, Active Protection System™	Preloaded applications ¹⁴ (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus
mSATA™ SSD	None	ThinkVantage Product Recovery
Widescreen display Camera	11.6" (295mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Access Connections™ ThinkVantage System Update ThinkVantage Power Manager
Graphics	AMD Radeon HD 6310 or 7340 graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI TM (supporting HDCP to output protected content); supports dual independent display; Maximum external resolution: 1920x1080 (VGA or HDMI)	Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Keyboard TrackPoint® Touch pad ThinkLight™	6-row, spill-resistant, multimedia Fn keys TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, buttonless touchpad below keyboard, multi-touch None	 Skype™ for Windows Evernote® Symantec™ VIP Windows Live™ Essentials
Dimensions ³ Weight ² Case color Case material Battery - type Battery - life ¹⁰	11.6W" (WxDxH): 11.6" x 8.5" x 1.27"; 293.4mm x 216mm x 32.3mm 6-cell: from 3.92 lb (1.78kg) Midnight black or Heatwave red (top); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell, HW Authentication 6-cell (62.4Whr): up to 8.5 hr	Microsoft® Office 2010 preloaded; purchase product key to activate
Chipset Multicard reader ExpressCard Ports	AMD A68M FCH Chipset 4-in-1 reader (MMC, SD, SDHC, SDXC) None Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
PCIe Mini Card	Two PCI Express Mini Card slots	
PCIe WLAN⁴	Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter	Supports ThinkVantage® technologies
PCIe WWAN Carrier	Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCle Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified
Modem Bluetooth™ Ethernet Audio support	None Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Realtek® RTL8111F Gigabit Network Connection HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 /	ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security Security chip	stereo speakers, 2 watt x 2 / monaural digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None	For compatible accessories, please go to O-X131-E sheet;
Fingerprint reade	r None 2 1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

See footnotes for more detailed information US model(s) announced July 31 or October 23, 2012

✓ US model(s) withdrawn effective March 2013

With Bull Boy Boy Miles																	
Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	PCle Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-		Preload	Ann Date (mm/yy)			
< 3371-7RU	E-300	4GBx1	11.6" HD	720p	128G SSD	TP 11a/b/g/n	Gobi 3000	select		None	BT	6	Win7 Pro64				
< 3371-7QU < 3371-7PU	E-300 E2-1800	4GBx1 4GBx1	11.6" HD 11.6" HD	720p 720p		TP 11a/b/g/n TP 11a/b/g/n	Gobi 3000 Gobi 3000	select select			BT BT	6 6	Win7 Pro64 Win7 Pro64				
< 3371-7FU <	E2-1800	4GBx1	11.6" HD	720p		TP 11a/b/g/n	Gobi 3000	select			BT	6	Win7 Pro64				
3371-7MU	E2-1800	4GBx1	11.6" HD	720p		TP 11a/b/g/n	WWAN upg	None	Black	None	ВТ	6	Win7 Pro64				
3371-7LU	E2-1800	4GBx1	11.6" HD	720p		TP 11a/b/g/n	WWAN upg	None	Black		ВТ	6	Win7 Pro64				
< 3371-7KU < 3371-7JU	E-300 E-300	4GBx1 2GBx1	11.6" HD 11.6" HD	720p 720p		TP 11a/b/g/n TP 11b/g/n	WWAN upg WWAN upg	None None	Black Black	None	BT BT	6 6	Win7 Pro64 Win7 Pro64				
< 3371-8AU	E-300	2GBx1	11.6" HD	720p		TP 11b/g/n	WWAN upg	None		None	BT	6	Win8 64	12/12			
< 3371-89U	E-300		11.6" HD	720p		TP 11a/b/g/n	WWAN upg	None	Black		ВТ	6	Win7 Pro64	12/12			
3371-88U	E2-1800	2GBx1	11.6" HD	720p		TP 11a/b/g/n	WWAN upg	None		None	BT	6	Win7 Pro64				
3371-87U 3371-86U	E2-1800 E2-1800	2GBx1 2GBx1	11.6" HD 11.6" HD	720p 720p		TP 11b/g/n	WWAN upg WWAN upg	None None	Black Black	None	BT BT	6 6	Win7 Pro64 Win8 64	12/12			
3371-8EU										None	BT	6	Win7 Pro64				
3371-8DU		2GBx1	11.6" HD	720p		TP 11b/g/n	WWAN upg	None	Black	None	BT	6	Win8 64	02/13			
3371-8CU	E1-1200	2GBx1	11.6" HD	720p		TP 11a/b/g/n	WWAN upg	None		None	BT	6	Win7 Pro64				
3371-8BU	-8BU E1-1200 2GBx1 11.6" HD 720p 320G 7200 TP 11b/g/n WWAN upg None Black									None	ВТ	6	Win7 Pro64	02/13			
Positioning Processor Entry ultraportable for excellent usability and reliability; one spindle AMD Accelerated Processor E-300 (2 cores, 1.30GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz) AMD Accelerated Processor E1-1200 (2 cores, 1.40GHz, 1MB L2 cache), integrated AMD Radeon HD 7310 Graphics, integrated DDR3 memory controller (up to 1066MHz) AMD Accelerated Processor E2-1800 (2 cores, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics,											pr dd W me: W paded I)	einsta owngra indow indow applie	vs® 7 Professialled through ade rights in vs 8 Pro 64-bit cations (only beddle)	it			
integrated DDR3 memory controller (up to 1333MHz) Memory 8GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, two 204-pin SO-DIMM sockets * System clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller											inkVan	Messa tage I	age Center P Product Reco				
Optical SATA disk	Optical None (use optional USB-based optical drive)											Access Connections™ ThinkVantage Power Manager Microsoft® Office 2010 preloaded; purchase product key to activate					
mSATA™ S	SD No									- Windows 8 models - Lenovo Support							
Widescreer display Camera	/ 200	0 nits, 16:9	aspect rati	o, 300:1	contrast ratio	-glare, LED ba sensitive, face t	cklight, racking, fixed fo	cus		Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded;							
Graphics	ext dig sup	ernal anal ital monito ports dua	og monitor : or support vi I independe	support v a HDMI ^{TI} ent displa	ria VGĂ DB-1! ™ (supporting	•		tent);		 purchase product key to activate All models Lenovo Solution Center Password Manager 				ivate			
Keyboard TrackPoint® Touch pad	6-ro Tra Ult	ow, spill-re ckPoint po raNav™, b	esistant, mu pinting device	Itimedia F e, Interne	-n keys et Scroll Bar ¹³	,				• Fir mo	ngerpri odels) novo C	nt Sof Cloud S	System Upda tware (finger _l Storage				
ThinkLight ^T Dimensions Weight ²	s ³ 11.	6W" (WxE ell: from 3	.92 lb (1.78	kg)		mm x 216mm x	x 32.3mm			• Sk	Sugar ype™	Sync					
Case color Case mater Battery - ty Battery - life	rial Acı pe Lith	rylonitrile-l nium Ion 6	Butadiene-S -cell, HW A	Styrene (<i>A</i> uthentica	op); black bot ABS) plastic tion	tom											
Battery - life ¹⁰ 6-cell (62.4Whr): up to 8.5 hr Chipset Multicard reader ExpressCard Ports AMD A68M FCH Chipset 4-in-1 reader (MMC, SD, SDHC, SDXC) None Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)																	
PCIe Mini Card PCIe WLAN ⁴ Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter											T	la la la f		ala ete			
PCIe WWA	N So.	me: Wirel me: Wirel	ess WAN up ess WAN, C	ogradable Qualcomn	e n® Gobi™ 300	0 chipset, PCI	•	combo a	adapter	65-w EPE	att AC AT™ G	Adap old ra	ting				
Carrier Modem	No	<i>me:</i> User ne	selectable,	AT&T®, V		orint®, contract	required with se	rvice p	rovider	GRE ROH	ENGU S-com	ARD® pliant	5.0-compliar certified				
Bluetooth™ Ethernet Audio supp	Re ort HD	altek® RTL Audio, Re	_8111F Giga ealtek ALC3	abit Netw 202 code	ork Connections, Dolby® Ad	vanced Audio™	¹ v2 /	.1.		24 h	our x 7	dav18	ranty Service toll-free suppranty period ¹²	oort			
Security Security ch	Pov ip No	wer-on pas ne					nbo audio/mic jad d, security keyho			For c		ble ac	cessories, pl				
Fingerprint						20 " ' '							e ²² upgrade o	options,			
Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available										pleas	e go to	S-TA	sheet				

ThinkPad® X131e Accessories

TIIIIKFAU ATSTE ACCESSOTIES					,		
Memory 2GB PC3-12800 DDR3 SODIMM	0Δ65722	ann	06/05/12	Batteries ThinkPad Battery 35+ (6-cell)	0A36292	ann	07/05/11
4GB PC3-12800 DDR3 SODIMM			06/05/12	ThinkPad External Battery Charger ⁴⁴ 44 Requires the <i>ThinkPad 90W AC Adapter</i>	40Y7625		
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive				40Y7659 or the adapter provided with the syst			
USB 2.0 Portable 500GB Hard Disk			05/26/09	More information at www.lenovo.com/alldaycon		onn	01/05/06
USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive USB 3.0 Secure 1TB Hard Drive	0A65616	ann	11/29/11 11/29/11 08/28/12	ThinkPad 65W AC Adapter ThinkPad 90W AC Adapter 90W Ultraslim AC/DC Combo Adapter	40Y7696 40Y7659 41R4493	ann	09/20/05
Lenovo Slim USB Portable DVD Burner	0A33988			More info at www.lenovo.com/support/powerac		am	03/22/03
Wireless WAN (Mini PCI Express)				Charging tips for 90W Ultraslim AC/DC Combo A		21103	
Only WWAN upgradable models: ThinkPad Gobi™ Mobile Broadband Option	0A36185	ann	04/12/11	●iPod and iPhone Charge Tip (L10a) •Generic Micro USB charge tip (L18)	41R4481 41R4490	ann	12/18/07
ThinkPad Expansion				More information at www.lenovopowertips.com			
JSB 2.0 Port Replicator with Digital Video	0A33942	ann	03/22/11	Carrying Cases Up to 12.5" widescreen models:			
Keyboard FrackPoint Cap Collection	73P2698	ann	12/16/03	ThinkPad 12.5" Ultrabook Topload	0B47416	ann	12/04/12
Jltraslim Plus Wireless Keyboard and Mouse ⁵²	0A34032	ann	04/05/11	Up to 15.6" widescreen models:	44115050		05/04/5
JSB Numeric Keypad Preferred Pro USB Keyboard			<i>05/01/00 06/21/05</i>	Lenovo Messenger Max Lenovo Performance BackPack	41U5253 41U5254		
Enhanced Performance USB Keyboard FhinkPad USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard	73P2620	ann	03/23/04	ThinkPad Business Topload Case	43R2476	ann	05/13/08
FhinkPad USB Keyboard with TrackPoint			08/18/09		43R2482	ann	05/13/08
Lenovo® USB Fingerprint Keyboard Lenovo USB Smartcard Keyboard	51J0155		02/22/05	ThinkPad Deluxe Expander Case ThinkPad Executive Leather Case	43R2478 43R2480		
52 Wireless via 2.4GHz technology using a micro				Lenovo Sport Backpack - Red	0A33896	ann	02/28/1
Marra				Lenovo Sport Slimcase - Red	0A33897 0A33898		
Mouse Lenovo Optical Mouse (USB)	06P4069	ann	05/21/03	Lenovo Sport Messenger - Red Lenovo Sport Backpack - Blue	0B47298		
_enovo Laser Mouse (ÙSB) ^	41U3074	ann	01/23/07	Lenovo Sport Slimcase - Blue	0B47300	ann	08/28/1
ThinkPad USB Laser Mouse			12/15/09	Lenovo Sport Messenger - Blue	0B47299		
Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical)			08/27/02 06/04/02	Lenovo Sport Backpack - Grey Lenovo Sport Slimcase - Grey	0B47301 0B47303		
ThinkPad Bluetooth Laser Mouse	0A36407	ann	06/26/12	Lenovo Sport Messenger - Grey	0B47302		
Lenovo Wireless Laser Mouse ⁵²	0A36188			More information at www.lenovo.com/support/c	ases		
Multimedia				Lenovo luxury cases at www.lenovoluxurycases	s.com		
ThinkPad In-Ear Headphones with microphone	57Y4488	ann	01/07/10	Monitors			
Modem				ThinkVision L1900p 19" (VGA, DVI-D)	4431HE1		
JSB 2.0 Lenovo Modem	43R1814	ann	02/26/08	ThinkVision L2250p Wide 22" (VGA, DVI-D) ThinkVision L2251x Wide 22" (VGA, DP)	2572HB6 2578HB6		
Saarriite				ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)69	2572MB6	ann	09/13/1
Security Kensington® MicroSaver® Cable Lock	73P2582	ann	12/29/03	ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)65 ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)65	4420MB2	ann	09/13/1
Kensington Twin Head Cable Lock	45K1620	ann	09/30/08	69 DisplayPort cable is not included. ThinkVision LT1421 Wide 14" Mobile Monitor			
Lenovo Security Cable Lock			08/24/10	with Protective Screen Cover (USB 2.0)	1452DS6	ann	08/16/1
JSB Gemplus GemPC Smart Card Reader	41N3040	ann	02/21/06	ThinkVision LT1421 Wide 14" Mobile Monitor			
				with Protective Case (USB 2.0)	1452DB6	ann	08/16/1
				More information at www.lenovo.com/support/n	nonitors		
				Monitor Accessories ⁴⁶			/ / /
				Lenovo HDMI to HDMI Monitor Cable Lenovo HDMI to VGA Monitor Cable	0B47070 0B47069		
				Lenovo USB 3.0 to DVI/VGA Monitor Adapter	0B47009 0B47072		
				Lenovo USB Soundbar	0A36190	ann	05/01/1
				Kensington MicroSaver Cable Lock	73P2582	ann	12/29/03
				Kensington Twin Head Cable Lock Lenovo Security Cable Lock	45K1620 57Y4303		
				Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision	55Y9258	ann	
				More information at www.lenovo.com/support/n	nonitoraco	esso	ries
				For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories			
				www.longyo.com/gupport/gaggggrigg			

www.lenovo.com/support/accessories Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems





Lenovo® ThinkPad X230



Lenovo® ThinkPad X230



Lenovo ThinkPad X230



Lenovo ThinkPad X230





Lenovo ThinkPad X230

ThinkPad® X230 (2320) - TopSeller

	Type-model	Processor	Memory	Wide- screen display	Disk SATA GB [®] rpm	Optical T in U UltraBase	Iltrabase	key-	PCIe Mini Card WLAN	PCIe Mini Card WWAN	Finger print reader	tery	Intel AMT	Intel vPro	Preload (Ann date (mm/yy)
><	2320-8VU	i5-3210M	4GBx1	12.5" HD	128G SSD	Optional	Opt	None	Intel 2200 ²⁸	WWAN upg	Fing	6	No	No	Pro 64	06/12
><	2320-33U	i5-3210M	4GBx1	12.5" HD	180G SSD	Optional	Opt	None	Intel 2200	WWAN upg	Fing	6	No	No	Pro 64	06/12
><	2320-32U	i5-3210M	4GBx1	12.5" HD	500G 7200	Optional	Opt	None	Intel 2200	WWAN upg	Fing	6	No	No	Pro 64	06/12
	2320-2ZU	i5-3210M	4GBx1	12.5" HD	320G 7200	Optional	Opt	None	Intel 2200	WWAN upg	Fing	6	No	No	Pro 64	06/12
	2320-A9U	i7-3520M	4GBx1	12.5" HD	180G SSD	DVD±RW	UltraB	Backlit	Intel 6205 ²⁸	WWAN upg	Fing	6	iAMT	vPro	Pro 64	07/12
	2320-A7U	i5-3320M	4GBx1	12.5" HD	500G 7200	DVD±RW	UltraB	Backlit	Intel 6205	WWAN upg	Fing	6	iAMT	vPro	Pro 64	07/12
	2320-A5U	i5-3320M	4GBx1	12.5" HD	500G 7200	Optional	Opt	Backlit	Intel 6205	WWAN upg	Fing	6	iAMT	vPro	Pro 64	07/12
><	2320-A3U	i5-3210M	4GBx1	12.5" HD	500G 7200	Optional	Opt	Backlit	Intel 2200	WWAN upg	Fing	6	No	No	Pro 64	07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™ • Password Manager
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Preloaded applications ¹⁴ (only some
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	listed) • Access Connections™ • ThinkVantage Power Manager • Fingerprint Software (fingerprint models) • ThinkVantage System Update • Microsoft Office 2010 preloaded;
mSATA™ SSD	None	purchase product key to activate
Widescreen display Camera	12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Supports ThinkVantage® technologies
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight	ThinkPad Ultrabase Series 3
TrackPoint® Touchpad ThinkLight™	TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Provides desktop expansion and cable management for X230 and X230 Tablet
Dimensions ³ Weight ² Case material Standard Battery External Battery Battery - life ¹⁰	without UltraBase; 4/6-cell: 12.0" x 8.13" x 0.75-1.05"; 305mm x 206.5mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell (62.4Whr): up to 10.3 hr; 9-cell (93.6Whr): up to 15.5 hr; external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr	Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412
Chipset Ultrabase Multicard reader ExpressCard	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54)	Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632
Smart Card Read Ports	None Two USB 3.0, one powered USB 2.0 external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45)	Other features: Power button (front) Security key lock, security keyhole
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless	 Analog VGÁ DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter
Ethernet Intel AMT Audio support	Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack	1.39 lb; 630g 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	GREENGUARD® certified ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support
Limited warranty ¹²	3-years /1-yr battery - depot repair service / service upgrades ²² available	during the warranty period ¹²

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Optical in UltraBase	ThinkPad Ultrabase Series 3	key-	PCle Mini Card WLAN	PCIe Mini Card WWAN			Intel	Pre- load (Ann date (mm/yy)
2320-8UU	i5-3320M	4GBx1	12.5" HD	720p	128G SSD	DVD±RW	UltraB	None	Intel 6205 ²⁸	WWAN upg	None	6	vPro	Pro 64	06/12
2320-8TU	i7-3520M	4GBx1	12.5" HD	720p	128G SSD	DVD±RW	UltraB	None	Intel 6205	WWAN upg	None	6	vPro	Pro 64	06/12
2320-3BU	i5-3320M	4GBx1	12.5" HD	None	320G 7200	Optional	Opt	None	Intel 6205	Gobi 3000	select	6	vPro	Pro 64	06/12
2320-3AU	i7-3520M	4GBx1	12.5" HD	720p	500G 7200	Optional	Opt	None	Intel 6205	Gobi 3000	select	6	vPro	Pro 64	06/12
2320-39U	i7-3520M	4GBx1	12.5" HD	720p	500G 7200	DVD±RW	UltraB	None	Intel 6205	WWAN upg	None	6	vPro	Pro 64	06/12
2320-38U	i7-3520M	4GBx1	12.5" HD	720p	180G SSD	DVD±RW	UltraB	None	Intel 6205	WWAN upg	None	6	vPro	Pro 64	06/12
2320-37U	i5-3320M	4GBx1	12.5" HD	720p	180G SSD	DVD±RW	UltraB	None	Intel 6205	WWAN upg	None	6	vPro	Pro 64	06/12
2320-36U	i5-3320M	4GBx1	12.5" HD	720p	500G 7200	DVD±RW	UltraB	None	Intel 6205	WWAN upg	None	6	vPro	Pro 64	06/12
2320-35U	i5-3320M	4GBx1	12.5" HD	720p	320G 7200	DVD±RW	UltraB	None	Intel 6205	WWAN upg	None	6	vPro	Pro 64	06/12
2320-34U	i5-3320M	4GBx1	12.5" HD	720p	320G 7200	Optional	Opt	None	Intel 6205	WWAN upg	None	6	vPro	Pro 64	06/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Rescue and Recovery™ Password Manager
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	Preloaded applications¹⁴ (only some listed) • Access Connections™ • ThinkVantage Power Manager • ThinkVantage Tools • Fingerprint Software (fingerprint
mSATA™ SSD	None	models)
Widescreen display Camera	12.5 " (317.5mm) HD (1366x768) TFT color , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some:</i> HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 ThinkVantage System Update Microsoft Office 2010 preloaded; purchase product key to activate
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight	Supports ThinkVantage® technologies
TrackPoint® Touchpad	TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, multi-touch	ThinkPad Ultrabase Series 3
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions	 Provides desktop expansion and cable management for X230 and
Dimensions ³ Weight ² Case material Standard Battery External Battery Battery - life ¹⁰	without UltraBase; 4/6-cell: 12.0" x 8.13" x 0.75-1.05"; 305mm x 206.5mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell (62.4Whr): up to 10.3 hr; 9-cell (93.6Whr): up to 15.5 hr; external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr	 X230 Tablet Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive
Chipset Ultrabase Multicard reader ExpressCard Smart Card Read Ports	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54)	9.5mm Bay Adapter III 43N3412 Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632 Other features:
	external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45)	 Power button (front)
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS	 Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports
Carrier	Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider	Gigabit ethernet (RJ-45) portMicrophone in and headphone out
Modem Bluetooth™ Ethernet	None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	 Requires 65W or 90W AC adapter 1.39 lb; 630g
Intel AMT Audio support	Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 /	65-watt AC Adapter
	volume up, down, mute buttons / dual array microphone, combo audio/mic jack	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant
Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant	GREENGUARD® certified
	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	during the warranty period ¹²

ThinkPad® X230 (2320) - TopSeller (Windows 8)

	Type-model	Processor	Memory	Widescreen display	Disk SATA GB [®] rpm	Optical in UltraBase	Ultrabase	key-	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	tery	Intel AMT	Intel vPro	Preload	Ann date (mm/yy)
	2320-HQU	i7-3520M	4GBx1	12.5" HD	180G SSD	DVD±RW	UltraB	Backlit	Intel 620528	WWAN upg	6	iAMT	vPro	Win7 Pro64	10/12
	2320-HPU	i5-3320M	4GBx1	12.5" HD	500G 7200	DVD±RW	UltraB	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	10/12
	2320-HNU	i5-3320M	4GBx1	12.5" HD	500G 7200	Optional	Opt	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	10/12
*	2320-HMU	i5-3210M	4GBx1	12.5" HD	500G 7200	Optional	Opt	Backlit	Intel 2200	WWAN upg	6	No	No	Win7 Pro64	10/12
	2320-AAU	i7-3520M	4GBx1	12.5" HD	180G SSD	DVD±RW	UltraB	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win8 Pro64	10/12
	2320-A8U	i5-3320M	4GBx1	12.5" HD	500G 7200	DVD±RW	UltraB	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win8 Pro64	10/12
	2320-A6U	i5-3320M	4GBx1	12.5" HD	500G 7200	Optional	Opt	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win8 Pro64	10/12
*	2320-A4U	i5-3210M	4GBx1	12.5" HD	500G 7200	Optional	Opt	Backlit	Intel 2200	WWAN upg	6	No	No	Win8 Pro64	10/12
	2320-JCU	i7-3520M	4GBx1	12.5" HD Prem	180G SSD	DVD±RW	UltraB	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	10/12
	2320-JBU	i5-3320M	4GBx1	12.5" HD Prem	500G 7200	DVD±RW	UltraB	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	10/12
	2320-JAU	i5-3320M	4GBx1	12.5" HD Prem	500G 7200	Optional	Opt	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	10/12
> <	2320-J9U	i5-3210M	4GBx1	12.5" HD Prem	500G 7200	Optional	Opt	Backlit	Intel 2200	WWAN upg	6	No	No	Win7 Pro64	10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

	A depot repair service o-year innited warranty	
Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	listed)
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: Formovable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	 Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate
mSATA™ SSD	None	- Windows 8 models
Widescreen display Camera	Some: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: (Premium) 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing) HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft Office 2013 preloaded; purchase product key to activate
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	 All models Lenovo Solution Center Password Manager Supports ThinkVantage® technologies
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	ThinkPad Ultrabase Series 3 Provides desktop expansion and cable management for X230 and X230 Tablet
Dimensions ³ Weight ² Case material Standard Battery External Battery Battery - life ¹⁰	without UltraBase; 4/6-cell: 12.0" x 8.13" x 0.75-1.05"; 305mm x 206.5mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell (62.4Whr): up to 10.3 hr; 9-cell (93.6Whr): up to 15.5 hr; external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr	 Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive 9.5mm Bay Adapter III
Chipset Ultrabase Multicard reader ExpressCard Smart Card Read	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54) None	Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632
Ports	Two USB 3.0, one powered USB 2.0 external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45)	Other features: Power button (front) Security key lock, security keyhole
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	 Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
Intel AMT Audio support Security Security chip Fingerprint reader	Some: Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support
Limited warranty 2	3-years/1-yr battery - depot repair service / service upgrades ²² available	during the warranty period ¹²

ThinkPad® X230 (2320) - TopSeller (Windows 8) - II

Type-mode	Processor	Memory	Widescreen display	Disk SATA GB ⁸ rpm		ThinkPad Ultrabase Series 3	key-	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Bat- tery cells	Intel AMT	Intel vPro	Preload	Ann date (mm/yy)
2320-JPU	i5-3230M	4GBx1	12.5" HD	500G 7200	Optional	Opt	Backlit	Intel 2200	WWAN upg	6	None	No	Win7 Pro64	02/13
≈ 2320-KMU	i5-3360M	4GBx1	12.5" HD	240G FDE SSD	Optional	Opt	Backlit	Intel 620528	WWAN upg	6	iAMT	vPro	Win8 Pro64	02/13
2320-KLU	i5-3320M	4GBx1	12.5" HD	180G SSD	Optional	Opt	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win8 Pro64	02/13
2320-KKU	i5-3230M	4GBx1	12.5" HD	180G SSD	Optional	Opt	Backlit	Intel 2200	WWAN upg	6	None	No	Win7 Pro64	02/13
2320-KJU	i5-3230M	4GBx1	12.5" HD	180G SSD	Optional	Opt	Backlit	Intel 2200	WWAN upg	6	None	No	Win8 Pro64	02/13
2320-KHU	i5-3230M	4GBx1	12.5" HD	500G 7200	Optional	Opt	Backlit	Intel 2200	WWAN upg	6	None	No	Win8 Pro64	02/13
2320-L9U	i7-3520M	4GBx1	12.5" HD	320G 7200 OPAL	Optional	Opt	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	04/13
2320-L8U	i7-3520M	4GBx1	12.5" HD	256G SSD	Optional	Opt	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	04/13
2320-L7U	i5-3320M	4GBx1	12.5" HD	256G SSD	Optional	Opt	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	04/13
2320-L6U	i5-3320M	4GBx1	12.5" HD	320G 7200 OPAL	Optional	Opt	Backlit	Intel 6205	WWAN upg	6	iAMT	vPro	Win7 Pro64	04/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20dHz), HT technology Intel Core is-3320M processor (2 cores, 2.60dHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30dHz), HT technology Intel Core is-3450M processor (2 cores, 2.80dHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology Intel Core ir-34520M processor (dual-core, 2.90dHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology Intel Core ir-34520M processor (dual-core, 2.90dHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology Intel Core ir-34520M processor (dual-core, 2.90dHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology Intel Core ir-34520M processor (dual-core, 2.90dHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology Intel Core ir-34520M processor (only intel Core ir-34520M processor) (2000 in Cramping Intel Core ir-34520M product Intel Core ir-34520M processor (intel Core ir-34520M product Intel Core ir-34520M product Intel Mprocessor, Intel HD Graphics 4000 in processor (intel Core ir-34520M product Intel Core ir-34520M processor (intel Core ir-34520M product Intel Core ir		, , , ,	
Memory 16GB max' / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets		Intel® Core™ i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i5-3360M processor (2 cores, 2.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000,	- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications⁵ (only some
Option for ThinkPad Ultrabase Series 3 Supports Ultrabay Sim devices in optional or standard ThinkPad Ultrabase Series 3 Supports Ultrabay Sim devices in optional or standard ThinkPad Ultrabase Series 3 Supports Ultrabay Sim devices in optional or standard ThinkPad Ultrabase Series 3 Some: Solid State Drive (SSD) / SATA 3 c08b; 2.5° wide, 7mm high, active Protection System** All: enrowable, upgradable, Shock Mounted Hard Drive, supports the second disk no potional or standard ThinkPad Ultrabase Series 3 None Widescreen display Olimera Ultrabase Series 3 Some: Sate of the State Order of the State	Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity,	 Lenovo® Message Center Plus
mSATA** SSD None Widescreen display Camera 12.5° (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 300-1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, supports external analog monitor via WGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@060Hz (single-link DVI-1 via optional Mini DP cable); 1920x120x120v120	Uİtrabay	Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk	 ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Windows 8 models
Villosesreen 12.5" (317.5mm) HD (136bx/Reg) IFT color), anti-glare, LED backlight, Camera 10720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Microsoft Office 2013 preloaded; purchase product key to activate 10720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Microsoft Office 2013 preloaded; purchase product key to activate 12.5" (317.5mm) HD (136bx/Reg) 10720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Mini Dr part of the supports external analog monitor via WGA DB-15 and digital monitor via Mini Dr part of the supports dual independent display; Maximum external assolution: 2560x1600 60Hz (DisplayPort via optional Mini Dr part) 1200x1600 60Hz (BisplayPort) 1200x1600 60Hz (Bi	mSATA™ SSD		
Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports external analog monitor via VGA DB-15 and digital monitor via Mini DP cable); 1920x1200 @ 60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@ 75Hz (VGA)	display	200 nits, 16:9 aspect ratio, 300:1 contrast ratio	Lenovo QuickLaunchMicrosoft Office 2013 preloaded;
Keyboard TrackPoint® TrachPoint® TrackPoint® TrackPoint® TrackPoint® TrackPoint® TrackPoi	Graphics	supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);	- All models - Lenovo Solution Center - Password Manager
TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹a, magnifying glass UltraNav M, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions Without UltraBase; 4/6-cell: 12.0° x 8.13° x 0.75-1.05°; 305mm x 206.8mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Standard Battery External Battery External Battery External Battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell, 62.4Whr): up to 10.3 hr; 9-cell glus external battery: up to 26.1 hr Chipset Ultrabase Ultrabase Ultrabase Option: ThinkPad to a two-spincle system with optional Ultrabay Slim accessories in right side: - Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412 Disks supported (some): - Verternal monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45) PCIe WMAN Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino* Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIe WWAN Wireless WAN upgradable None Modem Modem Bluetooth* Bluetooth	Keyboard		
Dimensions³ without UltraBase; 4/6-cell: 12.0° x 8.13° x 0.75-1.05°; 305mm x 19.0-26.6mm x 19.0-26.6mm x 20.0 E. from 3.31 b (1.67kg); 9-cell: from 3.69 b (1.34kg); 6-cell: from 3.31 b (1.67kg); 9-cell: from 3.67 b	Touchpad	UltraNav™, buttonless touchpad below keyboard, multi-touch	Provides desktop expansion and cable management for X230 and
external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr Chipset Ultrabase Ultrabase Ultrabase Multicard reader ExpressCard Multicard reader ExpressCard Smart Card Read Ports Two USB 3.0, one powered USB 2.0 external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45) Two PCIe WLAN¹ Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Some: Intel Active Management Technology (iAMT) Audio support AuthenTec fingerprint reader Fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader Fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader on palm rests, swipe sensor, LED indicator, Power On Authentication, supports the security chip Possible Active fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader on palm rests, swipe sensor, LED indicator, Power On Authentication, supports the security chip Possible Active fingerprint reader AuthenTec fingerprint reader AuthenTec fingerprint reader on palm rests, swipe sensor, LED indicator, Power On Authentication, supports the security chip Possible Active fingerprint reader AuthenTec fingerprint reader on palm rests, swipe sensor, LED indicator, Power On Authentication, supports the security chip Possible Active fingerprint reader on palm rests, swipe sensor, LED indicator, Power On Authentication, supports the security chip Also NA65629	Weight ² Case material Standard Battery External Battery	4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None	 Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:
Ultrabase Multicard reader ExpressCard Smart Card Read Ports PCIe Mini Card PCIe WLAN⁴ PCIe WLAN⁴ Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIe WWAN Carrier Modem Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Card PCIe Mini Card PCIe WLAM¹ Some: Intel Active Management Technology (iAMT) Audio support Audio support Cacurity PCwer-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader AuthenTec fingerprint reader (SD, SDHC, SDXC, MMC) Power On Authentication, supports disc (SD, SDHC, SDXC, MMC) None None PCIe WLAN⁴ Some: 11b/g/n, pCle Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Some: Intel Active Management Technology (iAMT) Audio support PCWer-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip			9.5mm Bay Adapter III 43N3412
Ports Two USB 3.0, one powered USB 2.0 external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45) PCIe Mini Card PCIe MLAN4 Two PCI Express Mini Card slots PCIe WLAN4 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIe WWAN Wireless WAN upgradable Carrier None Modem None Bluetooth™ Bluetooth 4.0 wireless Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel AMT Some: Intel Active Management Technology (iAMT) Audio support High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip Time USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out None None None None None None None None	Ultrabase Multicard reader	Option: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC)	Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632
PCIe WLAN ⁴ Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 PCIe WWAN Carrier None None None Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth™ Some: Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel AMT Audio support Audio support Security Security Security Security Security Fingerprint reader POIs Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIs Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIs Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIs Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIS Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIS Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIS Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIS Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIS Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 POIS Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 POIS Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 POIS Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 POIS Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 POIS Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Pois Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Pois Lable 45J7915) Pour USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out PRequires 65W or 90W AC adapter 1.39 lb; 630g 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant Intel ACT Machanta A C Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support		Two USB 3.0, one powered USB 2.0	Power button (front)
Intel AMT Audio support Audio support Audio support Audio support Security Security Security Fingerprint reader Fingerprint reader Security Fingerprint reader Some: Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support	PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet	Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	 Analog VGÅ DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter
	Audio support Security Security chip Fingerprint reader	Some: Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service ¹⁷
	Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	

Type-model	Processor	Memory	Widescreen display	Disk SATA GB [®] rpm		ThinkPad Ultrabase Series 3		PCIe Mini Card I WLAN	PCIe Viini Card WWAN	l print	Blue-	Bat- tery cells	Intel		Pre-	Ann date (mm/yy)
2324-4TU	i5-3320M	4GBx1	12.5" HD	180G SSD	Optional	Opt	None	Intel 620528	upg	Fing	BT	6	vPro		Pro 64	06/12
2324-3YU	i7-3520M	4GBx1	12.5" HD Prem	180G SSD	Optional	Opt	None	Intel 6205	upg	Fing	BT	9	vPro		Pro 64	06/12
2324-3XU	i7-3520M	4GBx1	12.5" HD	500G 7200	Optional	Opt	None	Intel 6205	upg	Fing	BT	9	vPro		Pro 64	06/12
2324-3WU	i5-3320M	4GBx1	12.5" HD Prem	500G 7200	Optional	Opt	None	Intel 6205	upg	Fing	BT	6	vPro	G	Pro 64	06/12
2324-3VU	i5-3320M	4GBx1	12.5" HD Prem	500G 7200	DVD±RW	UltraB	None	Intel 6205	upg	Fing	BT	6	vPro	G	Pro 64	06/12
2324-3UU	i7-3520M	4GBx1	12.5" HD Prem	320G 7200	Optional	Opt	None	Intel 6205	upg	Fing	BT	9	vPro		Pro 64	06/12
≈ 2324-3TU	i5-3360M	4GBx1	12.5" HD	320G 7200	Optional	Opt	None	Intel 6205	upg	Fing	BT	9	vPro		Pro 64	06/12
≈ 2324-3SU	i5-3360M	4GBx1	12.5" HD	320G 7200	Optional	Opt	None	Intel 6205	upg	No	No	6	vPro		Pro 64	06/12
≈ 2324-3RU	i5-3360M	4GBx1	12.5" HD Prem	320G 7200	Optional	Opt	None	Intel 6205	upg	Fing	BT	9	vPro		Pro 64	06/12
2324-3QU	i5-3320M	4GBx1	12.5" HD Prem	320G 7200	Optional	Opt	None	Intel 6205	upg	Fing	BT	6	vPro	G	Pro 64	06/12
2324-3PU	i5-3320M	4GBx1	12.5" HD	320G 7200	DVD±RW	UltraB	None	Intel 6205	upg	Fing	BT	6	vPro	G	Pro 64	06/12
2324-5XU	i7-3520M	4GBx1	12.5" HD	500G 7200	DVD±RW	UltraB	Backlit	Intel 6205	upg	Fing	BT	6	vPro		Pro 64	07/12
2324-5VU	i5-3320M	4GBx1	12.5" HD	180G SSD	DVD±RW	/ UltraB	Backlit	Intel 6205	upg	Fing	BT	6	vPro		Pro 64	07/12

- A depot repair service 3-year limited warranty Microsoft® Office 2010 Product Key Ready (O10PKR)

	 Microsoft® Office 2010 Product Key Ready (O10PKR) 	
Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i5-3360M processor (dual-core, 2.80GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed) • Rescue and Recovery™ • Password Manager
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Preloaded applications ¹⁴ (only some
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™ • ThinkVantage Power Manager • ThinkVantage Tools • Fingerprint Software (fingerprint
mSATA™ SSD Widescreen display Camera	None Some: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: (Premium) 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing) HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	models) ■ ThinkVantage System Update ■ Adobe® Reader® ■ Skype™ for Windows ■ Microsoft Office 2010 preloaded; purchase product key to activate
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Supports ThinkVantage® technologies
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	ThinkPad Ultrabase Series 3 Provides desktop expansion and cable management for X230 and X230 Tablet Easily connects to the bottom of the
Dimensions ³ Weight ² Case material Standard Battery External Battery Battery - life ¹⁰	without UltraBase; 4/6-cell: 12.0" x 8.13" x 0.75-1.05"; 305mm x 206.5mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell (62.4Whr): up to 10.3 hr; 9-cell (93.6Whr): up to 15.5 hr; external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr	Zasily conflects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412 Disks supported (some):
Chipset Ultrabase Multicard reader ExpressCard Smart Card Read Ports	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54) None Two USB 3.0, one powered USB 2.0 external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45)	128GB SSD 6.0Gb/s 0A65629 180GB SSD 6.0Gb/s 0A65630 500GB Disk 7200 rpm 0A65632 Other features: Power button (front) Security key lock, security keyhole Analog VGA DB-15 monitor port
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
Intel AMT Audio support Security Security chip Fingerprint reader	Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades²² available	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹2
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	Type-model	Processor	Memory	Wideso		Camera	Dis SAT GB ⁸	ГА	in l	Iltrabase	kev-	t PCIe I Mini Card WLAN	Card		Finger print reader	Blue-	terv	Glob Intel Gl	MP` Pre-	Ann date (mm/yy)
	2324-3NU							•	Optional			Intel 6205						vPro	,	1 06/12
	2324-3MU								Optional			Intel 6205					6	vPro	Pro 64	4 06/12
	2324-2LU	i5-3320M	4GBx1	12.5" HE)	720p	320G	7200	Optional			Intel 6205		None				vPro	Pro 64	4 06/12
><	2324-25U	i5-3360M	4GBx1	12.5" HE) Prem	720p	320G	7200	Optional	Opt	None	Intel 6205	upg	None	Fing	BT	6	vPro	Pro 64	4 06/12
	2324-23U	i7-3520M	4GBx1	12.5" HE) Prem	No	180G	SSD	Optional	Opt	None	Intel 6300	²⁸ upg	None	Fing	BT	9	vPro 0	Pro 64	4 06/12
><	2324-22U	i5-3360M	4GBx1	12.5" HE)	720p	320G	7200	Optional	Opt	None	Intel 6205	upg	None	No	No	6	vPro 0	3 Pro 64	4 06/12
	2324-5SU	i5-3320M	4GBx1	12.5" HE) Prem	720p	320G	7200	Optional	Opt	None	Intel 6205	upg	None	Fing	BT	6	vPro 0	3 Pro 64	4 07/12
	2324-5RU	i5-3320M	4GBx1	12.5" HE)	720p	500G	7200	DVD±RW	/ UltraB	None	Intel 6205	upg	None	Fing	BT	6	vPro 0	3 Pro 64	4 07/12
	2324-5QU	i5-3320M	4GBx1	12.5" HE)	720p	180G S	SSD	Optional	Opt	None	Intel 6205	upg	None	Fing	BT	6	vPro 0	3 Pro 64	4 07/12
	2324-5NU	i5-3320M	4GBx1	12.5" HE)	720p	320G	7200	Optional	Opt	None	Intel 6205	upg	None	No	BT	6	vPro 0	3 Pro 64	4 07/12
	2324-5PU	i5-3320M	4GBx1	12.5" HE)	720p	320G	7200	DVD±RW	/ UltraB	None	Intel 6205	upg	None	Fing	BT	6	vPro 0	Pro 64	4 07/12

- A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (010PKR)

	 Microsoft® Office 2010 Product Key Ready (O10PKR) 	
Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i5-3360M processor (dual-core, 2.80GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	 Password Manager Preloaded applications¹⁴ (only some
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™ • ThinkVantage Power Manager • ThinkVantage Tools • Fingerprint Software (fingerprint
mSATA™ SSD	None	models)
Widescreen display	Some: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: (Premium) 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing) Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 ThinkVantage System Update Adobe® Reader® Skype™ for Windows Microsoft Office 2010 preloaded; purchase product key to activate
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Supports ThinkVantage® technologies ThinkPad Ultrabase Series 3
Dimensions ³ Weight ² Case material Standard Battery External Battery Battery - life ¹⁰	without UltraBase; 4/6-cell: 12.0" x 8.13" x 0.75-1.05"; 305mm x 206.5mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell (62.4Whr): up to 10.3 hr; 9-cell (93.6Whr): up to 15.5 hr; external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr	 Provides desktop expansion and cable management for X230 and X230 Tablet Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:
Chipset Ultrabase Multicard reader ExpressCard Smart Card Read Ports	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54) 2324-5PU model: Gemplus Smart Card Reader in ExpressCard slot Two USB 3.0, one powered USB 2.0 external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45)	- Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412 Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632 Other features:
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCIe Mini Card, EV-DO Rev. A. GPRS/WCDMA/HSPA, GPS	 Power button (front) Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports
Carrier Modem Bluetooth™ Ethernet	Some: User selectable, AT&T®, Verizon®, or Śprint®, contract required with service provider None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	 Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
Intel AMT Audio support Security Security chip Fingerprint reader	Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	during the warranty period ¹²

ThinkPad® X230 (2324) - Windows 8

Disk Optical ThinkPad Backlit PCle Finger Bat- Global (G) Ann Widescreen SATA in Ultrabase key- Mini Card print Blue- tery Intel Intel GMP date																		
Torre medal Durana	M	Widescreen	0	SATA	in	Ultrabase	e key-	Mini Card	print I	Blue-	tery Intel	Intel	GMP` ´		date			
Type-model Proces 2324-67U i5-3320				GB [®] rpm 320G 7200	UltraBase						cells AMT							
2324-66U i7-3520				180G SSD	Optional Optional	- '	None None	Intel 2200 Intel 6205			6 No 6 iAMT	No vPro			4 10/12 4 10/12			
2324-65U i7-3520				500G 7200	Optional	- '	None	Intel 6205			6 iAMT							
2324-64U i5-3320				180G SSD	Optional	- '	None	Intel 6205			6 iAMT							
2324-63U i5-3320				500G 7200	Optional		None	Intel 6205			6 iAMT							
2324-62U i5-3320 2324-5YU i7-3520				320G 7200 500G 7200	Optional DVD+RV		None Backlit	Intel 6205 Intel 6205			6 iAMT 6 iAMT				4 10/12			
2324-5WU i5-3320				180G SSD				Intel 6205			6 iAMT			_	4 10/12			
2324-8AU i7-3520					Optional			Intel 6205			6 iAMT			_	4 12/12			
2324-89U i7-3520						- '		Intel 6205			6 iAMT				4 12/12			
2324-88U i5-3320 2324-87U i5-3320				180G SSD 256G SSD	Optional Optional	- '		Intel 6205 Intel 6205			6 iAMT			_	4 12/12 4 12/12			
2324-86U i5-3320				128G SSD	Optional	- '		Intel 6205			6 iAMT				4 12/12			
2324-85U i5-3320				500G 7200	Optional	- '		Intel 6205			6 iAMT				4 12/12			
2324-84U i5-3320 2324-93U i5-3320				320G 7200 240G FDE SS	Optional Optional			Intel 6205 Intel 6205			6 iAMT				4 12/12 4 02/13			
							Dackiii	111161 0203	rilig									
Positioning Processor Memory	Intel® Core DDR3 mer Intel Core DDR3 mer	rtable for the ept is is is in its in	rocessor (up to 1 cessor (up to 1	r (dual-core, 2 600MHz), Inte (dual-core, 2. 600MHz), Inte	2.60GHz, 31 el Turbo Boo 90GHz, 4M el Turbo Boo	MB Cach ost 2.0 (3 B Cach	3.30GH: e) , Intel	z), HT tech HD Graph	nology iics 40	00, - 00,		Windo preinst downg Windo	ws® 7 F alled th rade rig ws 8 P	Profess nrough ghts in ro 64-b	ional 64			
	dual-chanr	nel capable, tw	o 204-pi	n SO-DIMM s	ockets	Davisa O				F	Preloade isted)							
Optical Ultrabay SATA disk mSATA™ SSD	Supports U Some: So Some: Ha All: rer in	'D burner, rem Iltrabay Slim de Iid State Drive Ird Disk Drive Movable, upgra optional or stal	evices in (SSD) / SATA 3 adable, S	optional or sta SATA 6.0Gb/s .0Gb/s, 2.5" w Shock Mounted	indard Thin s, 2.5" wide ride, 7mm h d Hard Driv	kPad Ult , 7mm hi igh, Acti e, suppo	gh ve Prote	ection Syst	em™	2) -	Window Lenovo ThinkVa ThinkVa Microso	Mess antage antage oft® Off	age Control Production Power ice 201	ct Reco Manag 0 prelo	overy ger paded;			
Widescreen	None	. 5" (317.5mm)	HD (13	66v768) TET /	color anti-	nlaro I E	D backl	light		\dashv	purchas			y to act	ivate			
display	20	0 nits, 16:9 as	pect ratio	o, 300:1 contra	ast ratio				l: aula 4		- Windows 8 models - Lenovo Support							
Camara	30	remium) 12.5" 0 nits, 16:9 as 0720p resolutio	pect ration	o, 500:1 contra	ast rátio, IP:	S, Wide\	/iew (17	'0° viewing)		Lenovo CompanionMicrosoft Office 2013 preloaded;							
Camera Graphics		raphics 4000			w light sens	silive, iac	e liacki	irig, lixeu ic	icus	-	purchase product key to activate							
Спартно	supports e supports d <i>Maximum</i>	xternal analog ual independe external resolo 0@60Hz (sing	monitor nt displa ution: 25	via VGA DB-1 ly; i60x1600@60	Hz (Display	Port via	optiona	ıl Mini DP d	able);	•	 All models Lenovo Solution Center Password Manager Supports ThinkVantage® technologies 							
Keyboard		key, ThinkVant																
TrackPoint®	TrackPoint	pointing device	e, "Pres	s-to-Select," Ir	nternet Scro	oll Bar ¹³ ,			Daorang	·	Provide			se Seri				
Touchpad Think! ight™		, buttonless to									cable m							
ThinkLight™ Dimensions³		the keyboard raBase; 4/6-ce					06 5mn	n v 10 0 26	6mm	-	X230 Ta	blet						
Weight ² Case material Standard Battery External Battery	4-cell: from Display co Li-lon 4-ce None	m 2.96 lb (1.34 ver: Magnesi II, 6-cell, or 9-	4kg); 6 um + PC cell, HW	c-cell: from 3.3 CABS; Bo Authentication	31 lb (1.50k httom: Mag n; optional e	g); 9-6 gnesium external l	cell: fro alloy pattery	om 3.67 lb (as 2nd batt	1.67kg ery	•	X230 or Convert system accessor	X230 s Thin with op ories in	Tablet kPad to otional right s	for trav o a two- Ultraba ide:	eling -spindle			
Battery - life ¹⁰		3Whr): up to 4 attery (64Whr,								r;	- Serial				3N3412			
Chipset Ultrabase Multicard reader ExpressCard	Some: Th 4-in-1 read	el QM77 Expi inkPad Ultraba ler (SD, SDHC ExpressCard/3	ase Serie , SDXC,	es 3 (see right MMC)	side)						Disks • 1280 • 1800	suppo 3B SS 3B SS	rted (so D 6.0G D 6.0G	ome): ib/s 0, ib/s 0,	A65629 A65630 A65632			
Smart Card Read Ports	None Two USB 3	3.0, one powei	ed USB	2.0) othernet	(D I 45)				•	Other feat	ures: utton (front)					
PCIe Mini Card PCIe WLAN ⁴	Two PCI E Some: 11	onitor (VGA D xpress Mini C b/g/n, PCIe Ha	ard slots alf Mini C	Card, Intel Cen	trino® Wire	ess-N 2				•	Security Analog Display	VGÅ D Port (s	B-15 n upports	nonitor s single	port			
PCIe WWAN Carrier	Wireless W None	a/b/g/n, PCIe l /AN upgradab		Card, Intel Ce	entrino Adva	anced-N	6205, 2	x2		•	DVI-D v Four US Gigabit	B 2.0 ethern	ports et (RJ-	, 45) por				
Modem Bluetooth™	None Some: Blu	uetooth 4.0 wir	eless								MicrophRequire							
Ethernet	Intel 82579	DLM Gigabit N	etwork C			HY, PCI	x1				1.39 lb;							
Intel AMT Audio support		el Active Mana ition (HD) Aud				reo cocc	koro 1	watt v 2 /			55-watt A							
Audio Support	volume up,	down, mute bu	ittons / di	ual array micro	phone, com	bo audio	/mic jad	ck			EPEAT™ ENERGY			omplier	nt			
Security chip		oassword, har atform Module			rvisor pass	word, se	curity ke	eyhole			GREENG	UARD	® certif					
Security chip Fingerprint reader	Some: Au		print rea	der on palm r			ED indi	cator,			ROHS-co nternatio	าล่l Wa	rranty					
Limited warranty ¹²						<u> </u>	lable			7	24 hour x during t							
	,	, ,											۱ ۲۰۰۰					

ThinkPad® X230 (2324) - Windows 8 - II

Type-model Processor Memory	Widescreen display	Disk SATA GB [®] rpm	Optical in UltraBase	ThinkPad Ultrabase Series 3	key-	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Finger Bat- print tery In reader cells vF		Ann date (mm/yy)
2324-9CU i7-3520M 4GBx1	12.5" HD	320G 7200 OPAL	Optional	Optional	Backlit	Intel 6205 ²⁸	WWAN upg	Finger 6 vP	ro Win7 Pro6	4 04/13
2324-9BU i7-3520M 4GBx1	12.5" HD	256G SSD	Optional	Optional	Backlit	Intel 6205	WWAN upg	Finger 6 vP	ro Win7 Pro6	4 04/13
2324-9AU i5-3320M 4GBx1	12.5" HD	320G 7200 OPAL	Optional	Optional	Backlit	Intel 6205	WWAN upg	Finger 6 vP	ro Win7 Pro6	4 04/13

• A depot repair service 3-year limited warranty

Desitioning	An ultranantable for the group time and the group and a grindle	Duele and all an existing a systems 20
Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Preloaded applications ⁵ (only some listed)
Optical Ultrabay SATA disk	Option for ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System TM All: removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	 Windows 7 models Lenovo® Message Center Plus ThinkVantage Power Manager Microsoft® Office 2010 preloaded; purchase product key to activate Windows 8 models
mSATA™ SSD Widescreen display Camera	None 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo Support Microsoft Office 2013 preloaded; purchase product key to activate
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display;	All models Lenovo Solution Center Password Manager
	Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Supports ThinkVantage® technologies
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	ThinkPad Ultrabase Series 3 Provides desktop expansion and cable management for X230 and X230 Tablet
Dimensions ³ Weight ² Case material Standard Battery External Battery Battery - life ¹⁰	without UltraBase; 4/6-cell: 12.0" x 8.13" x 0.75-1.05"; 305mm x 206.5mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell (62.4Whr): up to 10.3 hr; 9-cell (93.6Whr): up to 15.5 hr; external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr	 Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive Smm Bay Adapter III 43N3412 Disks supported (some):
Chipset Ultrabase Multicard reader ExpressCard Smart Card Read Ports	Mobile Intel QM77 Express Chipset Option: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54) None Two USB 3.0, one powered USB 2.0 external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45)	128GB SSD 6.0Gb/s 0A65629 180GB SSD 6.0Gb/s 0A65630 500GB Disk 7200 rpm 0A65632 Other features: Power button (front) Security key lock, security keyhole Analog VGA DB-15 monitor port
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
	Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades²² available	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2

ThinkPad® X230 (2325) - Onsite

Type-model Process	or Memory	Widescreen display (Camera	Dis SAT GB ⁸	ΓA	Optical in UltraBase		key- I	Mini Card N	PCIe Iini Car WWAN	d Carrie	Smart Card r Reader	Finger print reader	Blue-	Bat- tery cells	Intel G	MP`	G) Anı Datenm/yy
2325-5JU i7-3520	M 4GBx1	12.5" HD	720p 1	28G :	SSD	Optional	Opt	None	620528	upg	None	None	Fing	ВТ	6	vPro	(06/12
2325-2VU i7-3520							Opt	None	6205		None			BT		vPro		06/12
2325-2UU i5-3320						Optional	Opt	None	6205		None			BT		vPro (
2325-2TU i7-3520 2325-2SU i5-3320						DVD±RW		None	6205 6205		None None			BT BT		vPro vPro(06/12 06/13
2325-28U i5-3360							Opt	None	6205		None			BT		vPro (06/12
2325-2QU i5-3320							Opt	None	6205		None			BT		vPro (
2325-2PU i5-3320						Optional	Opt	None	6205	Gobi				BT		vPro		06/12
2325-2NU i5-3320	M 4GBx1	12.5" HD	No 3	320G	7200	Optional	Opt	None	6205	upg	None	None	No	No	6	vPro	(06/12
2325-23U i7-3520						Optional	Opt	None	630028		None			BT		vPro (
2325-22U i5-3360						Optional	Opt	None	6205		None		No	No		vPro (
2325-5PU i5-3320						DVD±RW	_		6205			Gemplus				vPro (
2325-5NU i5-3320						Optional	Opt	None	6205	upg	None	_	No			vPro (J// 12
	Intel® Cor DDR3 me Intel Core DDR3 me Intel Core	ortable for the ex e™ i5-3320M pro mory controller (e i5-3360M proc mory controller (e i7-3520M proc mory controller (cessor (up to 1 essor ((up to 1 essor (r (dua 600M (dual- 600M (dual-	al-core Hz), l core Hz), l core	e, 2.60GH Intel Turbo , 2.80GHz Intel Turbo , 2.90GHz	Iz, 3MB Coost 2 December 2 December 3 December .0 (3.30 ache) , l .0 (3.50 ache) , l	OGHz), HT Intel HD (OGHz), HT Intel HD (techn Graphic techn Graphic	ology cs 400 ology cs 400	0, - Ge Pro Read some • Res	aded nuine ' ofessio y to ir listed scue a	Windo nal 64 nstall) and Re	ows® I appl ecove	7 l icatio ery™		(onl	
Memory		x ⁷ / PC3-12800 1						.0 (0.00	JG(12), 111	1001111	ology	• Pas	ssword	Man	ager			
oriiory		nel capable, two											aded	applic	catio	ns ¹⁴ (only	som
Optical		VD burner, remo						s 3				listed Noi) rton™	Intern	et S	ecurity	201	2
Uİtrabay SATA disk	Some: Some: Ha	Ultrabay Sĺim dev blid State Drive (ard Disk Drive / \$ movable, upgrad	SSD) / SATA 3. lable, S	SATA .0Gb/s shock	6.0G s, 2.5 Mour	b/s, 2.5" v " wide, 7n nted Hard	wide, 7m nm high, Drive, su	m high Active	Protection	Syste		(30 • Acc • Thi	days cess C nkVan nkVan	of viru onned tage F	is de ction Powe	finitior s™ er Man	าร)	
~CATA™ CCD		optional or stand	lard Thi	inkPa	d Ultr	abase Se	ries 3					• Fin	gerprii				erpri	nt
mSATA™ SSD	None	N = 11 (0.1 = 5) 1	ID (40)		· -> ==				10.11				dels)		S		-1-4-	
Widescreen		2.5 " (317.5mm) I						, LED b	acklight,			• Ini	nkVan obe® F	tage S	Syste r®	em Up	date	
display	Some: (P	00 nits, 16:9 aspo Premium) 12.5" (00 nits, 16:9 aspo	317.5m	m) H l	D (13	66x768) 1	FT colo				ght,	Sky Mic	/pe™ f crosoft	or Wir Office	ndow 20	10 prel		
Camera		D720p resolution	•		angle	, low light	sensitive	, face t	racking, fi	xed foc	us	pur	chase	produ	uct k	ey to a	ctiva	ate
	supports of supports of Maximum	Graphics 4000 in external analog r dual independen external resolut 0@60Hz (single	nonitor t displa <i>ion:</i> 25	via V y; 60x16	600@	60Hz (Dis	splayPort	via opt	tional Mini	DP ca	ble);							
	6-row, 84-	key, ThinkVanta	ge butto	on, sp	ill-res	istant, mu	Iltimedia	Fn keys	s, optional	LED b	ackligl	nt						
TrackPoint® Touchpad ThinkLight™	UltraNav™	t pointing device , buttonless tou s the keyboard to	chpad b	pelow	keyb	oard, mul	ti-touch		griffying g	iass		H	orts Th					
Dimensions ³	without U	ltraBase; 4/6-cell	<i>l</i> : 12.0 ^t	" x 8.1	13" x (0.75-1.05	"; 305mm	x 206.	5mm x 19	0.0-26.6	3mm		vides					
Standard Battery External Battery	Display co Li-Ion 4-ce None	om 2.96 lb (1.34k over: Magnesiu ell, 6-cell, or 9-ce	m + PC ell, HW	ABS; Authe	entica	Bottom: tion; optio	Magnes nal exter	ium allo nal bati	by tery as 2n	d batte	ry	cab X23 • Eas X23	le mar 30 Tab sily con 30 or X	nagen let inects	nent toth	for X2 e botto	30 a om of	nd the
	external b	8Whr): up to 4.6 attery (64Whr, 0	A36280	<i>9):</i> ùp								sys	nverts tem w essori	ith opt	tiona	l Ultra		
Chipset Ultrabase		tel QM77 Expre ninkPad Ultrabas			see ric	ght side)						- S	erial A	TA Ha	ırd D	rive		
Multicard reader	4-in-1 read	der (SD, SDHC,	SDXC,	MMC	;) `	,						9.	5mm l	Вау А	dapt	er III		341
ExpressCard		ExpressCard/34					-1-4						isks sı 128GE					562
Smart Card Read Ports		3.0, one powere			⊓⊏xþ	resscard	SIOL						180GE					
		nonitor (VGA DB			playP	ort), ethe	rnet (RJ-	45)					500GE					
PCIe Mini Card PCIe WLAN ⁴	Some: 11	Express Mini Car la/b/g/n, PCle Hala/b/g/n, lf Mini	Card,	, Intel	Centrino	Advance	ed-N 62	205, 2x2) 3x3			Pov	featur ver but curity k	tton (f			kevh	nole	
PCIe WWAN	Some: W Some: W	ireless WAN upo ireless WAN, Qu V-DO Rev. A, GF	gradable ialcomn	e n® Go	bi™ 3	000 chips			,			Ana Dis	alog V(playPo -D via	GÁ DE ort (su	3-15 ppor	monito ts sing	or po	ort
Carrier		ser selectable, A					contract r	equired	with serv	rice pro	vider	• Fou	ır USB	2.0 p	orts	,		
Modem	None							•		•			abit et					
Bluetooth™ Ethernet		uetooth 4.0 wire 9LM Gigabit Net		onna	otion	ال مستميناك	2/ D⊓∧ L					• IVIIC	rophoi quires	ne in a 65W /	and I or ac	ieadpl W ∆∩	one aha	out
Ethernet Intel AMT	Intel Activ	e Management 1	rechnol	oav (i	AMT)	(LEWISVIII)	<i>=)</i> , ┌┌ा, ト	ole XI					յսпеs 9 lb; 6:		ال ال	, , , , , O	aua	hre!
Audio support	High Defir	nition (HD) Audic	, Realte	ek® Al	LC32	02 codec				x 2 /			att AC		tor			
• • •	volume up	, down, múte butt	ons / du	ual arr	ay mi	crophone,	combo a	.udio/m	ic jack				all AC \T™ G					
		password, hard					password	, secur	ity keyhole)		ENEF	RGY S	TAR®	5.0-		ant	
Security chip Fingerprint reader		atform Module, thenTec fingers					ine sense	or. I FD	indicator			GRE	ENGU	ARD®	cert			
gorprint reader		ower On Authent						,, LLD	aioaioi,				S-com ationa			, Sani	ce ¹⁷	
Limited warranty ¹²	3-years/1	-year battery, lin	nited or	nsite	servi	ce ²⁴ , 8 an	n - 5 pm,					24 ho	ur x 7	day18	toll-í	ree su	ippoi	
	excluding	holidays, next bu	usiness	day r	espo	nse time/	service u	ıpgrade	es" avaılal	oie		dur	ing the	e warr	anty	period	J' ²	

			Widescreen		Disk Optical ThinkPad Backlit SATA in Ultrabase key- I			PCle						G) Ann Pre- Date	
Type-model	Processor	Memory		Camera											load (mm/yy)
2325-5TU	i5-3320M	4GBx1	12.5" HD Prem	720p	320G 7200	DVD±RW	UltraB	None	Intel 62052	³ upg	Finger	6	vPro	GΡ	Pro 64 07/12
2325-3QU	i5-3320M	4GBx1	12.5" HD Prem	720p	320G 7200	Optional	Opt	None	Intel 6205	upg	Finger	6	vPro	GΡ	Pro 64 07/12
2325-5SU	i5-3320M	4GBx1	12.5" HD Prem	720p	500G 7200	DVD±RW	UltraB	None	Intel 6205	upg	Finger	6	vPro	GΡ	Pro 64 07/12
2325-5RU	i5-3320M	4GBx1	12.5" HD Prem	720p	500G 7200	Optional	Opt	None	Intel 6205	upg	Finger	6	vPro	GΡ	Pro 64 07/12

- Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Ready to install applications ¹⁴ (only some listed)
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	 Rescue and Recovery[™] Password Manager Preloaded applications[™] (only some listed) Access Connections[™] ThinkVantage Power Manager
mSATA™ SSD	None	Think variage Fower Manager Think Vantage Tools
Widescreen display Camera	(Premium) 12.5 " (317.5mm) HD (1366x768) TFT color , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing) HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Fingerprint Software (fingerprint models) ThinkVantage System Update
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);	 Adobe® Reader® Skype™ for Windows Microsoft Office 2010 preloaded; purchase product key to activate
	1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	Supports ThinkVantage® technologies
Keyboard TrackPoint®	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar ¹³ , magnifying glass	ThinkPad Ultrabase Series 3
Touchpad ThinkLight™	UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Provides desktop expansion and cable management for X230 and X230 Tablet
Dimensions ³ Weight ² Case material Standard Battery External Battery Battery - life ¹⁰	without UltraBase; 4/6-cell: 12.0" x 8.13" x 0.75-1.05"; 305mm x 206.5mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell (62.4Whr): up to 10.3 hr; 9-cell (93.6Whr): up to 15.5 hr; external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr	 Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412
Chipset Ultrabase Multicard reader ExpressCard	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54)	Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632
Smart Card Read Ports	None Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45)	Other features: Power button (front) Security key lock, security keyhole
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT)	 Analog VGÁ DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
Audio support Security Security chip	High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7
Limited warranty ¹²	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

ThinkPad® X230 (2325) - Onsite (Windows 8)

	Widescreen		Disk SATA	Optical Thi		dit PCle - Mini Card	print Bl	ue- tery	Intel	Intel	obal (0 GMP	G)	Ann Date
Type-model Processor Memor	y display	Camera	ı GB [®] rpm U	ItraBase Se	eries 3 boa	rd WLAN	reader to	othcell	s AMT	vPro	(P)	Preload	(mm/yy)
2325-67U i5-3320M 4GBx	1 12.5" HD	No	320G 7200	Optional (Opt None	Intel 2200	None I	No 6	No	No	GР۱	Win8 Pro6	4 10/12
2325-66U i7-3520M 4GBx	1 12.5" HD	720p	180G SSD	Optional (Opt None	Intel 62052	8 Finger I	BT 6	iAMT	vPro	GР۱	Win8 Pro6	4 10/12
2325-65U i7-3520M 4GBx	1 12.5" HD	720p	500G 7200	Optional (Opt None	Intel 6205	Finger I	BT 6	iAMT	vPro	GР۱	Win8 Pro6	4 10/12
2325-64U i5-3320M 4GBx	1 12.5" HD	720p	180G SSD	Optional (Opt None	Intel 6205	Finger I	BT 6	iAMT	vPro	GР۱	Win8 Pro6	4 10/12
2325-63U i5-3320M 4GBx	1 12.5" HD	720p	500G 7200	Optional (Opt None	Intel 6205	Finger I	BT 6	iAMT	vPro	GР۱	Win8 Pro6	4 10/12
2325-62U i5-3320M 4GBx	1 12.5" HD	720p	320G 7200	Optional (Opt None	Intel 6205	Finger I	BT 6	iAMT	vPro	GР۱	Win8 Pro6	4 10/12
2325-8AU i5-3320M 4GBx	1 12.5" HD	720p	500G 7200	Optional (Opt Back	it Intel 6205	Finger I	BT 6	iAMT	vPro	١	Win7 Pro6	4 12/12
2325-89U i7-3520M 4GBx	1 12.5" HD	720p	256G SSD	Optional (Opt Back	it Intel 6205	Finger I	BT 6	iAMT	vPro	١	Win7 Pro6	4 12/12
2325-88U i7-3520M 4GBx	1 12.5" HD Prer	m 720p	240G FDE SSD	Optional (Opt Back	it Intel 6205	Finger I	BT 6	iAMT	vPro	١	Win7 Pro6	4 12/12
2325-87U i5-3320M 4GBx	1 12.5" HD	720p	180G SSD	Optional (Opt Back	it Intel 6205	Finger I	BT 6	iAMT	vPro	١	Win7 Pro6	4 12/12
2325-86U i5-3320M 4GBx	1 12.5" HD	720p	128G SSD	Optional (Opt Back	it Intel 6205	Finger I	BT 6	iAMT	vPro	١	Win7 Pro6	4 12/12
2325-85U i5-3320M 4GBx	1 12.5" HD	720p	320G 7200	Optional (Opt Back	it Intel 6205	Finger I	BT 6	iAMT	vPro	١	Win7 Pro6	4 12/12
<2325-AAU i5-3320M 4GBx	1 12.5" HD	720p	180G SSD	Optional (Opt Back	it Intel 6205	Finger I	BT 6	iAMT	vPro	١	Win8 Pro6	4 02/13
2325-A7U i5-3320M 4GBx	1 12.5" HD	720p	240G FDE SSD	Optional (Opt Back	it Intel 6205	Finger I	BT 6	iAMT	vPro	١	Win8 Pro6	4 02/13

• Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty

	• Some models are part of the Global Models Plus program with limited onsite service ²⁴ 3-y	ear limited warranty
Positioning Processor	An ultraportable for the executive on the move; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	- <i>Some:</i> Windows 8 Pro 64-bit Preloaded applications ⁵ (only some
Optical Ultrabay SATA disk	Option for ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - ThinkVantage Power Manager - Microsoft® Office 2010 preloaded;
mSATA™ SSD	None	purchase product key to activate
Widescreen display	Some: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: (Premium) 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing)	 Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch
Camera Graphics	Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor,	 Microsoft Office 2013 preloaded; purchase product key to activate
Стартноз	supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)	All models Lenovo Solution Center Password Manager
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Supports ThinkVantage® technologies ThinkPad Ultrabase Series 3 Provides desktop expansion and cable management for X230 and
Dimensions ³ Weight ² Case material Standard Battery External Battery Battery - life ¹⁰	without UltraBase; 4/6-cell: 12.0" x 8.13" x 0.75-1.05"; 305mm x 206.5mm x 19.0-26.6mm 4-cell: from 2.96 lb (1.34kg); 6-cell: from 3.31 lb (1.50kg); 9-cell: from 3.67 lb (1.67kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-lon 4-cell, 6-cell, or 9-cell, HW Authentication; optional external battery as 2nd battery None 4-cell (28.8Whr): up to 4.6 hr; 6-cell (62.4Whr): up to 10.3 hr; 9-cell (93.6Whr): up to 15.5 hr; external battery (64Whr, 0A36280): up to 10.6 hr; 9-cell plus external battery: up to 26.1 hr	 X230 Tablet Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive
Chipset Ultrabase Multicard reader ExpressCard Smart Card Read		9.5mm Bay Adapter III 43N3412 Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632
Ports	Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, Mini DisplayPort), ethernet (RJ-45)	Other features: • Power button (front)
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2 Wireless WAN upgradable None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Some: Intel Active Management Technology (iAMT)	 Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
	High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7
Limited warranty ¹²	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

ThinkPad® X230 Accessories

Memory OA65722 ann 06/05/12 2GB PC3-12800 DDR3 SODIMM 0A65722 ann 06/05/12 4GB PC3-12800 DDR3 SODIMM 0A65723 ann 06/05/12 8GB PC3-12800 DDR3 SODIMM 0A65724 ann 06/05/12	Batteries ThinkPad Battery 44 (4-cell) OA36305 ann 06/05/12 ThinkPad Battery 44++ (6-cell) OA36306 ann 06/05/12 ThinkPad Battery 44++ (9-cell) OA36307 ann 06/05/12 OA36280 ann 03/01/11
Ultrabay Slim 9.5mm Most Ultrabay Slim accessories supported in ThinkPad Ultrabase Series 3 Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412 ann 06/23/09 DVD ROM Ultrabay Slim Drive III 0A65628 ann 06/05/12 DVD Burner Ultrabay Slim Drive III 0A65626 ann 06/05/12	43To be used along with system battery for all-day computing; attaches under ThinkPad using docking connector (not supported when using Series 3 Port Replicator, Ultrabase, or Docks) More information at www.lenovo.com/alldaycomputing
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive 500GB 5400rpm SATA 3.0Gb/s 7mm 4K HDD⁴¹ 500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm 50F 50F 50F 50F 50F 50F 50F 50F 50F 50F	ThinkPad 65W AC Adapter 40Y7696 ann 01/05/06 ThinkPad 90W AC Adapter 40Y7659 ann 09/20/05 90W Ultraslim AC/DC Combo Adapter 41R4493 ann 09/22/09 More info at www.lenovo.com/support/poweradapters Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493 •iPod and iPhone Charge Tip (L10a) 41R4481 ann 12/18/07 •Generic Micro USB charge tip (L18) 41R4490 ann 01/06/09 More information at www.lenovopowertips.com Carrying Cases Up to 12.5" widescreen models: ThinkPad 12.5" Ultrabook Topload ⁷² 0B47416 ann 08/18/09 ThinkPad 12.5" Ultrabook Topload ⁷² 0B47416 ann 12/04/12 72 Not compatible when using ThinkPad Battery 44++ (9-cell) 0A36307 Up to 15.6" widescreen models: Lenovo Messenger Max 41U5253 ann 05/01/07 Lenovo Performance BackPack 41U5254 ann 05/01/07 ThinkPad Business Topload Case 43R2476 ann 05/13/08 ThinkPad Business Backpack 43R2482 ann 05/13/08 ThinkPad Deluxe Expander Case 43R2478 ann 05/13/08 ThinkPad Executive Leather Case 43R2480 ann 05/13/08 ThinkPad Executive Leather Case 43R2480 ann 05/13/08 ThinkPad Executive Leather Case 43R2480 ann 05/13/08 ThinkPad Executive Leather Case 43R2480 ann 05/13/08 Lenovo Sport Backpack - Red 0A33896 ann 02/28/12 Lenovo Sport Messenger - Red 0A33897 ann 02/28/12 More information at www.lenovo.com/support/cases Lenovo luxury cases at www.lenovoluxurycases.com
ThinkPad Port Replicator Series 3 with USB 3.0 433615W ann 06/05/12 ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W 433715U ann 06/05/12 TP Mini Dock Plus Series 3 w/ USB 3.0 - 90W 433815U ann 06/05/12 TP Mini Dock Plus Series 3 w/ USB 3.0 - 170W 433835U ann 06/05/12 Weyboard TrackPoint Cap Collection 73P2698 ann 06/05/12 USB Numeric Keypad 90A34032 ann 04/05/11 USB Numeric Keypad 33L3225 ann 05/01/00 Preferred Pro USB Keyboard 73P5220 ann 06/21/05 Enhanced Performance USB Keyboard 73P2620 ann 06/21/05 Enhanced Performance USB Keyboard 73P2620 ann 03/23/04 ThinkPad USB Keyboard with TrackPoint 55Y9003 ann 08/18/09 Lenovo USB Fingerprint Keyboard 73P4730 ann 02/22/05 52 Wireless via 2.4GHz technology using a micro-size USB receiver.	Monitors ThinkVision L1900p 19" (VGA, DVI-D) ThinkVision L11952p Wide 19" (VGA, DP, DVI-D) ThinkVision L2250p Wide 22" (VGA, DP, DVI-D) ThinkVision L2251x Wide 22" (VGA, DP) ThinkVision L2251x Wide 22" (VGA, DP) ThinkVision L12252p Wide 22" (VGA, DP, DVI-D) ThinkVision L12252p Wide 22" (VGA, DP, DVI-D) ThinkVision L12452p Wide 24" (VGA, DP, DVI-D) ThinkVision L12452p Wide 24" (VGA, DP, DVI-D) ThinkVision L12452p Wide 14" Mobile Monitor With Protective Screen Cover (USB 2.0) ThinkVision L1421 Wide 14" Mobile Monitor With Protective Case (USB 2.0) ThinkVision L1421 Wide 14" Mobile Monitor With Protective Case (USB 2.0) ThinkVision L1421 Wide 14" Mobile Monitor ThinkVision L1421 Wide 14" Mobile Monitor ThinkVision L1421 Wide 14" Mobile Monitor ThinkVision L1421 Wide 14" Mobile Monitor ThinkVision L1421 Wide 14" Mobile Monitor ThinkVision L1421 Wide 14" Mobile Monitor ThinkVision L1421 Wide 14" Mobile Monitor ThinkVision L1421 Wide 14" Mobile Monitor ThinkVision L1421 Wide 14" Mobile Monitor
Mouse 06P4069 ann 05/21/03 Lenovo Optical Mouse (USB) 41U3074 ann 01/23/07 ThinkPad USB Laser Mouse 57Y4635 ann 12/15/09 Lenovo ScrollPoint® Mouse (USB, Optical) 31P7405 ann 08/27/02 ThinkPad Travel Mouse (USB, Optical) 31P7410 ann 06/04/02 ThinkPad Bluetooth Laser Mouse 0A36407 ann 06/26/12 Lenovo Wireless Laser Mouse 0A36188 ann 12/20/11 Multimedia ThinkPad In-Ear Headphones with microphone 57Y4488 ann 01/07/10 Security 3M 12.5W Privacy Filter from Lenovo 0A61770 ann 04/05/11 Kensington® MicroSaver® Cable Lock 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock 45K1620 ann 09/30/08 Lenovo Security Cable Lock 57Y4303 ann 08/24/10 USB Gemplus GemPC Smart Card Reader 41N3040 ann 02/21/06	Monitor Accessories ⁴⁶ Lenovo USB 3.0 to DVI/VGA Monitor Adapter 0B47072 ann 08/14/12 Lenovo USB Soundbar 0A36190 ann 05/01/12 Mini-DisplayPort to DisplayPort Monitor Cable 0B47091 ann 07/24/12 Kensington MicroSaver Cable Lock 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock 45K1620 ann 09/30/08 Lenovo Security Cable Lock 57Y4303 ann 08/24/10 Lenovo Easy Reach Monitor Stand 55Y9258 ann 09/22/09 46 Compatible on selected Lenovo and ThinkVision monitors. More information at www.lenovo.com/support/monitoraccessories For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories Product specifications on Lenovo Support www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessory brochures www.lenovoquickpick.com An Options Compatibility Configurator for Lenovo systems





Lenovo® ThinkPad X230 Tablet



Lenovo ThinkPad X230 Tablet



Lenovo ThinkPad X230 Tablet



Lenovo ThinkPad X230 Tablet







Lenovo ThinkPad X230 Tablet

ThinkPad® X230 Tablet (3435) - TopSeller

Type-model Processor	Memory	Widescr displa		Camera	Disk SATA GB [®] rpm		ThinkPac Ultrabase Series 3	key-		PCIe Mini Car WWAN	d			Intel	Pre- load	Ann date (mm/yy)
3435-2YU i5-3320M	4GBx1	12.5" HD	Multi	720p	320G 7200	Optional	Opt	None	Intel 6205 ²⁸	Gobi	select	ВТ	6	vPro	Pro 64	06/12
3435-2XU i7-3520M	4GBx1	12.5" HD	Multi	720p	320G 7200	Optional	Opt	None	Intel 6205	Gobi	select	BT	6	vPro	Pro 64	06/12
3435-2WU i7-3520M	4GBx2	12.5" HD	Multi	720p	180G SSD	Optional	Opt	None	Intel 6205	upg	None	BT	6	vPro	Pro 64	06/12
3435-2VU i7-3520M	4GBx1	12.5" HD	Multi	720p	128G SSD	DVD±RW	UltraB	None	Intel 6205	upg	None	BT	6	vPro	Pro 64	06/12
3435-2UU i7-3520M	4GBx1	12.5" HD	Multi	720p	320G 7200	DVD±RW	UltraB	None	Intel 6205	upg	None	BT	6	vPro	Pro 64	06/12
3435-2TU i7-3520M	4GBx1	12.5" HD	Multi	720p	500G 7200	DVD±RW	UltraB	None	Intel 6205	upg	None	BT	6	vPro	Pro 64	06/12
3435-2SU i7-3520M	4GBx1	12.5" HD	Multi	720p	320G 7200	Optional	Opt	None	Intel 6205	upg	None	BT	6	vPro	Pro 64	06/12
3435-2RU i5-3320M	4GBx1	12.5" HD	Multi	720p	128G SSD	DVD±RW	UltraB	None	Intel 6205	upg	None	BT	6	vPro	Pro 64	06/12
3435-2KU i5-3320M	4GBx1	12.5" HD	Multi	720p	320G 7200	DVD±RW	UltraB	None	Intel 6205	upg	None	BT	6	vPro	Pro 64	06/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

	A depot repair service 3-year limited warranty	
Positioning Processor	Convertible tablet ultraportable; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	some listed) ■ Rescue and Recovery™ ■ Password Manager
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™ - ThinkVentone Power Manager
mSATA™ SSD	None	ThinkVantage Power Manager ThinkVantage Tools
Widescreen display	Outdoor: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare display with scratch resistant Corning® Gorilla® Glass, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, IPS MultiTouch: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, MultiTouch screen supports pen & five-finger gesture All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom	 Fingerprint Software (fingerprint models) ThinkVantage System Update Adobe® Reader® Skype™ for Windows Microsoft Office 2010 preloaded; purchase product key to activate
Graphics	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor,	
Keyboard	supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort) @ 60Hz; 2048x1536 (VGA) @ 75Hz; 1920x1200 @ 60Hz (single-link DVI-D via cable 45J7915) 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight	Supports ThinkVantage® technologies
TrackPoint® Touchpad ThinkLight™	o-tow, o4-key, fillikvaritage button, spin-fesistant, fillithriedia Fri keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch None	ThinkPad Ultrabase Series 3 Provides desktop expansion and cable management for X230 and
Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-Polymer 3-cell or Li-lon 6-cell, HW Authentication; optional external battery as 2nd battery None 3-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr, 0A36280): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr	X230 Tablet Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive
Chipset Ultrabase Multicard Reader ExpressCard Smart Card Read	One slot (ExpressCard/34, ExpressCard/54) None	9.5mm Bay Adapter III 43N3412 Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632
Ports	Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	Other features: • Power button (front)
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCIe Mini Card, EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service provider	Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port
Modem Bluetooth™ Ethernet	None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
	Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades²² available	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB [®] rpm	Optical in UltraBase	Ultrabase	key-	PCIe Mini Card WLAN	PCIe Mini Card WWAN	Finger print reader	tery	Intel	Preload (Ann date mm/yy)
3435-2JU	i5-3320M	4GBx1	12.5" HD Multi	i 720p	320G 7200	Optional	Opt	None	Intel 6205 ²⁸	WWAN upg	Fing	6	vPro	Pro 64	06/12
3435-2HU	i5-3320M	4GBx1	12.5" HD Multi	i 720p	500G 7200	DVD±RW	UltraB	None	Intel 6205	WWAN upg	Fing	6	vPro	Pro 64	06/12
3435-24U	i7-3520M	4GBx1	12.5" HD Multi	i 720p	500G 7200	Optional	Opt	None	Intel 6205	WWAN upg	Fing	6	vPro	Pro 64	06/12
3435-22U	i5-3320M	4GBx1	12.5" HD Multi	i 720p	500G 7200	Optional	Opt	None	Intel 6205	WWAN upg	Fing	6	vPro	Pro 64	06/12
3435-5HU	i5-3320M	4GBx1	12.5" HD Multi	i 720p	500G 7200	DVD±RW	UltraB	Backlit	Intel 6205	WWAN upg	Fing	6	vPro	Pro 64	07/12
3435-5GU	i5-3320M	4GBx1	12.5" HD Multi	i 720p	500G 7200	Optional	Opt	Backlit	Intel 6205	WWAN upg	Fing	6	vPro	Pro 64	07/12
3435-5AU	i5-3320M	4GBx1	12.5" HD Multi	i 720p	180G SSD	Optional	Opt	Backlit	Intel 6205	WWAN upg	Fing	6	vPro	Pro 64	07/12
3435-59U	i7-3520M	4GBx1	12.5" HD Multi	i 720p	500G 7200	DVD±RW	UltraB	Backlit	Intel 6205	WWAN upg	Fing	6	vPro	Pro 64	07/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

	 Microsoft® Office 2010 Product Key Ready (O10PKR) 	
Positioning Processor	Convertible tablet ultraportable; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows [®] 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	some listed) ■ Rescue and Recovery [™] ■ Password Manager
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™ • ThinkVantage Power Manager
mSATA™ SSD	None	ThinkVantage Tools
Widescreen display	Outdoor: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare display with scratch resistant Corning® Gorilla® Glass, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, IPS MultiTouch: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, MultiTouch screen supports pen & five-finger gesture All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom	 Fingerprint Software (fingerprint models) ThinkVantage System Update Adobe® Reader® Skype™ for Windows Microsoft Office 2010 preloaded; purchase product key to activate
	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915)	Supports ThinkVantage® technologies ThinkPad Ultrabase Series 3
Keyboard TrackPoint [®] Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch None	Provides desktop expansion and cable management for X230 and X230 Tablet Easily connects to the bottom of the
Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-Polymer 3-cell or Li-lon 6-cell, HW Authentication; optional external battery as 2nd battery None 3-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr, 0A36280): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr	X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412 Disks supported (some):
	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC)	 128GB SSD 6.0Gb/s 0A65629 180GB SSD 6.0Gb/s 0A65630 500GB Disk 7200 rpm 0A65632
ExpressCard Smart Card Read Ports	One slot (ExpressCard/34, ExpressCard/54) None Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	Other features: • Power button (front) • Security key lock, security keyhole • Analog VGA DB-15 monitor port
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	 DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
	Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades²² available	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2

													A
Type-model Proces	Widescreen sor Memory display Ca	Disk SATA Imera GB ⁸ rpm		ThinkPad Ultrabase Series 3	key- I	/lini Card	PCIe Mini Car WWAN	d Carrie			Intel /Pro GN	lobal (G) Pre- IP (P) load	Ann date (mm/yy)
		20p 320G 7200	•	Opt	None	6205 ²⁸	upg		BT			G Pro 64	
		20p 180G SSD 20p 500G 7200		Opt	None	6205 6205	upg		BT BT	6 v		Pro 64 G Pro 64	
		20p 500G 7200 20p 500G 7200		Opt Opt	None None	6205	upg upg		BT		Pro	Pro 64	
		20p 500G 7200		Opt	None	6205	upg		BT			G Pro 64	
		20p 500G 7200			None	6205	upg		BT		Pro	Pro 64	
3437-2UU i7-352	0M 4GBx1 12.5" HD <i>Multi</i> 7:	20p 320G 7200	Optional	Opt	None	6205	upg	None	BT	6 v	Pro/	Pro 64	06/12
		20p 320G 7200		Opt	None	6205	upg		BT			G Pro 64	
	OM 4GBx1 12.5" HD <i>Multi</i> 7:			_	None	6205	upg		BT			G Pro 64	
	0M 4GBx1 12.5" HD <i>Multi</i> 7: 0M 4GBx1 12.5" HD <i>Multi</i> 7:			Opt	None	6205 6205	Gobi		t BT		Pro Pro	Pro 64 G Pro 64	
		20p 128G SSD		Opt Opt	None None		upg upg		BT			G Pro 64	
Positioning	Convertible tablet ultraportable	<u>'</u>	Ориона	Орг	140110	0200	иру					ng system	
Processor	Intel® Core™ i5-3320M proces		2.60GHz, 3	MB Cach	e), Inte	I HD Gra	aphics 4				Vindow		.
	DDR3 memory controller (up to Intel Core i7-3520M processor DDR3 memory controller (up to	or (dual-core, 2.9	90GHz, 4N	IB Cache	e), Intel	HD Gra	phics 40	000, I	Ready			plications	s ¹⁴ (only
Memory	16GB max ⁷ / PC3-12800 1600	,		001 2.0 (0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				some l • Res		nd Reco	overy™	
	dual-channel capable, two 204										Manag		
Optical	Some: DVD burner, removable						(0.4.000	~~ I	Preloa	ded a	pplica	tions ¹⁴ (on	ly some
Ultrabay SATA disk	Supports Ultrabay Slim devices Some: Solid State Drive (SSD	in optional or sta	ndard Thin	kPad Ult	rabase	Series 3	(0A339	· ' '	listed)	T14 1			
SAIA UISK	Some: Hard Disk Drive / SATA					ection Sv	vstem™	'				Security 2 definitions	
	All: removable, upgradable	e, Shock Mounted	d Hard Driv	e, suppo	rts the	second o	disk	- 1			nnecti		'
mSATA™ SSD	in optional or standard	ThinkPad Ultraba	ase Series	3					Thin	kVanta	age Po	wer Manag	ger
	None 10 5 (017 5 mm)	ID (4000700) TI	TT andam						• Thin	kVanta	age Too	ols are (finger	nrint
Widescreen display	Outdoor: 12.5" (317.5mm) F anti-glare display w	1D (1366X/68) H vith scratch resist	F I COIO r , tant Cornir	na® Gorill	a® Glas	:0		- 1	mod		Contw	are (iiriger	Print
alopiay	LED backlight, 300	nits, 16:9 aspec	t ratio, 500	:1 contra	st ratio	,					age Sy	stem Upda	ate
	1.2% reflectivity, m										eader®		
	MultiTouch: 12.5" (317.5mm) F				, LED b	acklight,	,		SkypMicr	09.™ 10 09.0ft (r Wind	ows 2010 preloa	aded.
	300 nits, 16:9 aspe MultiTouch screen											key to act	
	All: WideView (170° viewir	ng), anti-reflective	and anti-	glare pro					•			,	
	write on screen with s												
Camera	rotate and swivel hing HD720p resolution, wide view	ge , power, reset, angle, low light s	and rotation	on button ce tracki	s on als na fixe	spiay bot d focus	tom						
Graphics	Intel HD Graphics 4000 in pro		011011110111										
G. G	supports external analog monit		5 and digi	tal monito	or via D	isplayPo	rt;						
	supports dual independent disp		- I I \ @	0011-									
	Maximum external resolution: 2048x1536 (VGA)@75Hz; 192				a cable	45 I7015	5)						
Keyboard	6-row, 84-key, ThinkVantage bu						,	iaht	Suppo	rts Thi	inkVan	age® techr	nologies
TrackPoint®	TrackPoint pointing device, "Pro							9	Th	inkPa	d Ultra	base Seri	es 3
Touchpad	UltraNav™, buttonless touchpa	d below keyboar	d, Tap Zon	es, multi-	touch	, , ,		- 1.	• Prov	ides d	esktop	expansion	and
ThinkLight™	None								cable	e man	ageme	nt for X230	and
Dimensions ³	without UltraBase; 3-cell: 12.0				mm x 2	27-31.3n	nm) Table		the bottom	oftho
Weight ² Case material	3-cell: from 3.67 lb (1.66kg); Display cover: Magnesium +		.97 10 (1.60 ttom: Ma		allov			- 1				let for trav	
Battery - type	Li-Polymer 3-cell or Li-lon 6-ce					ery as 2	nd batte	ry 🛭	Conv	erts T	hinkPa	d to a two-	-spindle
Extended Battery		C ==!! (CCIA/l=#)										nal Ultraba	ay Slim
Battery - life ¹⁰	3-cell (30Whr): up to 4.7 hr; 6 external battery (64Whr, 0A36)			plus exte	ernal ba	tterv: up	to 20.1	hr			A Hard	ht side: Drive	
Chipset	Mobile Intel QM77 Express C		,	,		, , , , , , , , , , , , , , , , , , ,			9.5	mm B	ay Ada	pter III 4	3N3412
Ultrabase	Some: ThinkPad Ultrabase Se	eries 3 (see right	side)						Dis	ks su	oported	l (some): .0Gb/s 0.	A65600
Multicard Reader	4-in-1 reader (SD, SDHC, SDX											.0Gb/s 0.	
ExpressCard Smart Card Read	One slot (ExpressCard/34, Exp	oressCard/54)										200 rpm 0	
Ports	Two USB 3.0, one powered US	SB 2.0,							Other				
	external monitor (VGA DB-15,		ernet (RJ-	45)				•	Pow	er butt	on (fro	nt)	avha!-
PCIe Mini Card	Two PCI Express Mini Card slo								SectAnal	irity Ke oa VG	y lock, Δ DR-	security ke	eynole
PCIe WLAN⁴ PCIe WWAN	11a/b/g/n, PCIe Half Mini Card Some: Wireless WAN upgrada		advanced-	N 6205, 2	2X2				Disp	layPor	t (supp	orts single	
I OIC WWAIN	Some: Wireless WAN, Qualco		0 chipset, I	PCIe Min	i Card,				DVÍ-	D via o	cable 4	5J7915) ¯	
•	EV-DO Rev. A, GPRS/	WCDMA/HSPA, (GPS								2.0 por	ts RJ-45) poi	rt
Carrier Modem	Some: User selectable, AT&T®	ຶ, verizonຶ, or Sp	orint", cont	ract requi	red wit	n service	provide					d headpho	
Bluetooth™	Bluetooth 4.0 wireless							- 1	 Requ 	uires 6	55W or	90W AC a	
Ethernet	Intel 82579LM Gigabit Network		wisville), P	HY, PCIe	x1			L	• 1.39	ıb; 63	0g		
Intel AMT	Intel Active Management Techr		oodoo / cto	roo onco	koro 1	watt v O	,				dapte		
Audio support	High Definition (HD) Audio, Re volume up, down, mute buttons						1				Id ratin		at
Security	Power-on password, hard disk										AH® 5. IRD® ce	0-compliar ertified	It
Security chip	Trusted Platform Module, TCG	1.2-compliant	·		•	•			ROHS	-comp	liant		
⊢ingerprint reader	AuthenTec fingerprint reader (r LED indicator, Power On Authe					ж mode,						nty Service	
Limited warranty ¹²	3-years/1-yr battery - depot rep											ll-free supp ity period ¹²	
Limited warranty	o-years/ r-yr battery - depot rep	Jan Service / Serv	noe upgrac	uco aval	iabie				uuill	.y 1116	marral	ry periou	

Type-mode	l Processor	Memory	Widesc displa		Camera	Di: SA GB ⁸	TA	Optical in UltraBase	Ultrabase	key-	PCIe Mini Card I WLAN	Vini Car	d print	Blue-		Intel		Pre-	Ann date (mm/yy)
3437-2QU	i5-3320M	4GBx1	12.5" HD	Multi	None	320G	7200	Optional	Opt	None	6205 ²⁸	upg	None	None	6	vPro		Pro 64	06/12
3437-2AU	i5-3320M	4GBx1	12.5" HD	Multi	720p	320G	7200	Optional	Opt	None	6205	upg	Fing	BT	6	vPro	G	Pro 64	06/12
3437-27U	i5-3320M	4GBx1	12.5" HD	Multi	720p	128G	SSD	Optional	Opt	None	6205	upg	Fing	BT	6	vPro		Pro 64	06/12
3437-24U	i7-3520M	4GBx1	12.5" HD	Multi	720p	320G	7200	DVD±RW	UltraB	None	6205	upg	Fing	BT	6	vPro		Pro 64	06/12
3437-23U	i7-3520M	4GBx1	12.5" HD	Multi	720p	180G	SSD	DVD±RW	UltraB	None	6205	upg	Fing	BT	6	vPro	G	Pro 64	06/12
3437-22U	i5-3320M	4GBx1	12.5" HD	Out	720p	320G	7200	DVD±RW	UltraB	None	6205	upg	Fing	BT	6	v Pro	G	Pro 64	06/12

- A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Convertible tablet ultraportable; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	 Rescue and Recovery™ Password Manager
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™ • ThinkVantage Power Manager
mSATA™ SSD	None	 ThinkVantage Tools
Widescreen display	Outdoor: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare display with scratch resistant Corning® Gorilla® Glass, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, IPS MultiTouch: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, MultiTouch screen supports pen & five-finger gesture All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Fingerprint Software (fingerprint models) ThinkVantage System Update Adobe® Reader® Skype™ for Windows Microsoft Office 2010 preloaded; purchase product key to activate
Graphics	Intel HD Graphics 4000 in processor,	
	supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via cable 45J7915)	Supports ThinkVantage® technologies ThinkPad Ultrabase Series 3
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch None	 Provides desktop expansion and cable management for X230 and X230 Tablet Easily connects to the bottom of the
Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-Polymer 3-cell or Li-lon 6-cell, HW Authentication; optional external battery as 2nd battery None 3-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr, 0A36280): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr	 X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412 Disks supported (some):
Chipset Ultrabase Multicard Reader ExpressCard	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDDXC, MMC) One plat (Express Cord/24 Express Cord/54)	• 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632
Smart Card Read Ports	One slot (ExpressCard/34, ExpressCard/54) None Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	Other features: Power button (front) Security key lock, security keyhole Analog VGA DB-15 monitor port
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Some: Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	 DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
	Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: AuthenTec fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades²² available	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2

ThinkPad® X230 Tablet (3438) - Onsite

	Dick Ontical ThinkPad Pooldit PCI-	DCI:	Einer	ν D-1	Clab	al (C) A=	_
Type-model Proces		WWAN C		er Bat t Blue- tery er toothcell	Intel G	al (G) An MP dat P) (mm/	te
3438-3UU i5-332	1		one Fing	•	vPro 0		/12
	0M 4GBx1 12.5" HD <i>Multi</i> 720p 320G 7200 Optional Opt None Intel 6205 0M 4GBx2 12.5" HD <i>Out</i> 720p 180G SSD Optional Opt None Intel 6205		one Fing		vPro 0 vPro		/12 /12
	OM 4GBx1 12.5" HD <i>Out</i> 720p 180G SSD Optional Opt None Intel 6205		one Fing		vPro		/ 12 /12
	OM 4GBx1 12.5" HD <i>Multi</i> 720p 128G SSD Optional Opt None Intel 6205		one Fing	,	vPro		/12
	OM 4GBx1 12.5" HD <i>Multi</i> 720p 320G 7200 Optional Opt None Intel 6205		elect Fing	,	vPro		/12
3438-2PU i5-332	0M 4GBx1 12.5" HD Multi No 320G 7200 Optional Opt None Intel 6205	upg N	one No	No 6	vPro	06	/12
	0M 4GBx1 12.5" HD <i>Out</i> 720p 500G 7200 Optional Opt None Intel 6205	upg N	one Fing		vPro		/12
	0M 4GBx1 12.5" HD <i>Out</i> 720p 320G 7200 Optional Opt None Intel 6205			,	vPro 0		/12
	0M 4GBx1 12.5" HD Multi 720p 320G 7200 Optional Opt None Intel 6205	upg N	one Fing		vPro 0		/12
Positioning Processor	Convertible tablet ultraportable; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Grapi DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT tech Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graph DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT tech	inology i ics 4000), - Genu Profe	led operation Windowssional 64 to install attention	ws® 7 ¯		nly
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets		• Resc	ue and Rev vord Mana			
Optical	Some: DVD burner, removable from ThinkPad Ultrabase Series 3	4.00000\	Preload	led applic	ations14	(only sor	me
Ultrabay	Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (Compare Solid State Drive (SSD) / SATA 6 OCh/o, 3 5" wide 7mm high	A33932)	listed)			`	
SATA disk	Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection Syst	em™		n™ Interne			
	All: removable, upgradable, Shock Mounted Hard Drive, supports the second dis			ays of virus		110)	
CATAIN OOD	in optional or standard ThinkPad Ultrabase Series 3		 Think 	Vantage P	ower Ma	nager	
mSATA™ SSD	None			Vantage To		70rn=!+	
Widescreen display	Outdoor: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare display with scratch resistant Corning® Gorilla® Glass,		• Finge	rprint Soft	ware (tin	gerprint	
display	LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio,		Think	Vántage S	ystem U _l	odate	
	1.2% reflectivity, multiple anti-reflectivity layers, IPS			e® Reader			
	MultiTouch: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight,			e™ for Win soft Office		aloaded.	
	300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, MultiTouch screen supports pen & five-finger gesture			ase produ			
	All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right),	'	·	•		
Camara	rotate and swivel hinge, power, reset, and rotation buttons on display botton						
Cranbias	Some: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed for	ocus	-				
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort) @ 60Hz; 2048x1536 (VGA) @ 75Hz; 1920x1200 @ 60Hz (single-link DVI-D via cable 45J7915)						
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED	backligh	Cumpar	a Think/o	oto a o® to	ahnalaai	
TrackPoint® Touchpad	TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch		Suppor	s ThinkVar nkPad Ultı			es
ThinkLight™	None		Provid	les deskto	p expans	ion and	
Dimensions ³ Weight ²	without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm	l		managem	ent for X	230 and	
Case material	3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy			Tablet connects t	o the hott	om of the	2
Battery - type	Li-Polymer 3-cell or Li-lon 6-cell, HW Authentication; optional external battery as 2nd	battery		or X230 Ta			
Extended Battery			Conve	erts ThinkF	ad to a t	wo-spind	dle
Battery - life ¹⁰	3-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr, 0A36280): up to 10.2 hr; 6-cell plus external battery: up to	20 1 hr	syster	n with opti sories in ri	onai Uitra	abay Siin	n
Chipset	Mobile Intel QM77 Express Chipset			al ATA Har			
Ultrabase	Some: ThinkPad Ultrabase Series 3 (see right side)			nm Bay Ac			12
	4-in-1 reader (SD, SDHC, SDXC, MMC)		Disk	s supporte 8GB SSD	ed (some): 	20
ExpressCard Smart Card Read	One slot (ExpressCard/34, ExpressCard/54)		• 18	0GB SSD	6.0Gb/s	0A6563	30
Ports	Two USB 3.0, one powered USB 2.0,			0GB Disk			
	external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)		Other fe				
PCIe Mini Card	Two PCI Express Mini Card slots			button (fr		ااد مرا ب	
PCIe WLAN ⁴	11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2			ity key locl g VGA DB			Э
PCIe WWAN	Some: Wireless WAN upgradable Some: Wireless WAN, Qualcomm® Gobi™ 3000 chipset, PCle Mini Card,		 Displa 	yPort (sup	ports sin	gle-link	
	EV-DO Rev. A, GPRS/WCDMA/HSPA, GPS		DVÍ-D	via cable	45J7915		
Carrier	Some: User selectable, AT&T®, Verizon®, or Sprint®, contract required with service p	rovider		JSB 2.0 po it ethernet		nort	
Modem Bluetooth™	None Some: Bluetooth 4.0 wireless			ohone in a			ıt
Ethernet	Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1		Requi	res 65W o			
Intel AMT	Intel Active Management Technology (iAMT)		• 1.39 I	o; 630g			
Audio support	High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 /			AC Adapte		_	
Security	volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole		EPEAT ¹	[™] Gold rati	ng	liau t	
Security chip	Trusted Platform Module, TCG 1.2-compliant			Y STAR® 5		ııant	
	Some: AuthenTec fingerprint reader (right base of display), used in tablet/notebook in	node,		compliant	Jei illieu		
	LED indicator, Power On Authentication, supports the security chip		Internat	ional Warr			
Limited warranty ¹²	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available			x 7 day ¹⁸ t g the warra			
	ovoluting holidays, how business day response time/ service appraises available		uurin	y une walla	unty peric	ru .	

ThinkPad® X230 Tablet (3438) - Onsite - II

Type-model	Processor	Memory	Widescreen display	Disk SATA GB [®] rpm	Optical in UltraBase	ThinkPad Ultrabase Series 3	Backlit key- board	PCIe Mini Card WLAN	PCIe Mini Card WWAN		Intel	Global (G) GMP (P)	Pre-	Ann Date mm/yy)
3438-25U	i7-3520M	4GBx1	12.5" HD Multi	500G 7200	Optional	Optional	None	Intel 6205 ²⁸	WWAN upg	6	vPro	GΡ	Pro 64	06/12
3438-24U	i5-3320M	4GBx1	12.5" HD Multi	500G 7200	Optional	Optional	None	Intel 6205	WWAN upg	6	vPro	GΡ	Pro 64	06/12
3438-23U	i7-3520M	4GBx1	12.5" HD Multi	180G SSD	DVD±RW	UltraBase	None	Intel 6205	WWAN upg	6	vPro	GΡ	Pro 64	06/12
3438-22U	i5-3320M	4GBx1	12.5" HD Out	320G 7200	DVD ±RW	UltraBase	None	Intel 6205	WWAN upg	6	vPro	GΡ	Pro 64	06/12
3438-3SU	i5-3320M	4GBx1	12.5" HD Out	128G SSD	Optional	Optional	None	Intel 6205	WWAN upg	6	vPro	GΡ	Pro 64	07/12
3438-2RU	i7-3520M	4GBx1	12.5" HD Multi	128G SSD	Optional	Optional	None	Intel 6205	WWAN upg	6	vPro	GΡ	Pro 64	07/12

- Part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Convertible tablet ultraportable; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Rescue and Recovery™ Password Manager
Optical Ultrabay SATA disk	Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™ • ThinkVantage Power Manager
mSATA™ SSD	None	ThinkVantage Tools
Widescreen display	Outdoor: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare display with scratch resistant Corning® Gorilla® Glass, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, IPS MultiTouch: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, MultiTouch screen supports pen & five-finger gesture All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom	 Fingerprint Software (fingerprint models) ThinkVantage System Update Adobe® Reader® Skype™ for Windows Microsoft Office 2010 preloaded; purchase product key to activate
Cranbias	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	
Graphics	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915)	Supports ThinkVantage® technologies
Keyboard	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight	ThinkPad Ultrabase Series 3
TrackPoint® Touchpad ThinkLight™	TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch None	Provides desktop expansion and cable management for X230 and X230 Tablet
Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Li-Polymer 3-cell or Li-lon 6-cell, HW Authentication; optional external battery as 2nd battery None 3-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr, 0A36280): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr	Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side: Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412
ExpressCard	Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) 4-in-1 reader (SD, SDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54)	Disks supported (some): • 128GB SSD 6.0Gb/s 0A65629 • 180GB SSD 6.0Gb/s 0A65630 • 500GB Disk 7200 rpm 0A65632
Smart Card Read Ports	None Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	Other features: Power button (front) Security key lock, security keyhole
PCIe Mini Card PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT)	 Analog VGÅ DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
Audio support Security Security chip Fingerprint reader	High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power On Authentication, supports the security chip	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹7
Limited warranty ¹²	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

ThinkPad® X230 Tablet Accessories

Memory 2GB PC3-12800 DDR3 SODIMM 4GB PC3-12800 DDR3 SODIMM	0A65722 ann 06/05/12 0A65723 ann 06/05/12	Batteries ThinkPad Battery 67 (3-cell) 0A36316 ann 06/05/12 ThinkPad Battery 67+ (6-cell) 0A36317 ann 06/05/12
8GB PC3-12800 DDR3 SODIMM Ultrabay Slim 9.5mm	0A65724 ann 06/05/12	
Most Ultrabay Slim accessories supported in Thir	nkPad Ultrabase Series 3 43N3412 ann 06/23/09	(not supported when using ThinkPad Ultrabase Series 3 0A33932)
Serial ATA Hard Drive 9.5mm Bay Adapter III DVD ROM Ultrabay Slim Drive III	0A65628 ann 06/05/12	More information at www.lenovo.com/alldaycomputing
DVD Burner Ultrabay Slim Drive III	0A65626 ann 06/05/12	ThinkPad 90W AC Adapter 40Y7659 ann 09/20/08
Storage and removable storage ThinkPad 16GB mSATA Solid State Cache Drive		90W Ultraslim AC/DC Combo Adapter 41R4493 ann 09/22/09 More info at www.lenovo.com/support/poweradapters
500GB 5400rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹	0A65631 ann 06/05/12 0A65632 ann 06/05/12	Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493
320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD ⁴¹ 320GB 7200rpm SATA 3.0Gb/s 7mm	0A65635 ann 06/05/12	
Self Encrypting (SED) OPAL Capable HDD ⁴¹ 128GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹	0A65636 ann 08/21/12 0A65629 ann 06/05/12	More information at www.lenovopowertips.com
180GB SATA 6.0Gb/s 7mm Solid State Drive ⁴¹ 256GB 2.5" SATA 6.0Gb/s OPAL-capable SSD ⁴¹	0A65630 ann 06/05/12	Carrying Cases
⁴¹ Can be used as the main HDD or with Serial A	ATA Hard Drive	Up to 12" widescreen models: ThinkPad 12W Case Sleeve ⁷¹ 51J0476 ann 08/18/09
9.5mm Bay Adapter III 43N3412 in ThinkPad Ul USB 2.0 Portable 500GB Hard Disk	uabase Series 3 45K1690 <i>ann 05/26/09</i>	71 Not compatible when using <i>ThinkPad Battery 67+ (6-cell) 0A36317</i> ThinkPad X220 Tablet Sleeve 0A33883 <i>ann 03/22/1</i>
USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive	0A65619 ann 11/29/11 0A65616 ann 11/29/11	ThinkPad 12.5" Ultrabook Topload 0B47416 ann 12/04/12
USB 3.0 Secure 1TB Hard Drive Lenovo Slim USB Portable DVD Burner	0A65621 ann 08/28/12 0A33988 ann 06/14/11	Up to 15.6" widescreen models: Lenovo Messenger Max 41U5253 ann 05/01/0
	0A00000 ann 00/14/11	Lenovo Performance BackPack 41U5254 ann 05/01/01 ThinkPad Business Topload Case 43R2476 ann 05/13/06
Wireless WAN (Mini PCI Express) Only WWAN upgradable models:	0400405 04/40/44	ThinkPad Business Backpack 43R2482 ann 05/13/06 ThinkPad Deluxe Expander Case 43R2478 ann 05/13/06
ThinkPad Gobi™ Mobile Broadband Option	0A36185 ann 04/12/11	ThinkPad Executive Leather Case 43R2480 ann 05/13/06 Lenovo Sport Backpack - Red 0A33896 ann 02/28/12
ThinkPad Expansion Lenovo® Essential Notebook Stand	45J9292 ann 05/12/09	Lenovo Sport Slimcase - Red 0A33897 ann 02/28/12 Lenovo Sport Messenger - Red 0A33898 ann 02/28/12
ThinkPad Ultrabase Series 3	0A33932 ann 03/01/11	More information at www.lenovo.com/support/cases
Keyboard TrackPoint Cap Collection	73P2698 ann 12/16/03	Lenovo luxury cases at www.lenovoluxurycases.com
Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad	0A34032 ann 04/05/11 33L3225 ann 05/01/00	Monitors ThinkVision L1900p 19" (VGA, DVI-D) 4431HE1 ann 11/11/08
Preferred Pro USB Keyboard Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint	73P5220 ann 06/21/05 73P2620 ann 03/23/04	ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) ⁶⁹ 2448MB6 ann 09/13/1 ThinkVision L2250p Wide 22" (VGA, DVI-D) 2572HB6 ann 10/20/05
ThinkPad USB Keyboard with TrackPoint Lenovo® USB Fingerprint Keyboard	55Y9003 ann 08/18/09 73P4730 ann 02/22/05	ThinkVision L2251x Wide 22" (VGA, DP) 2578HB6 ann 10/20/09 ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)® 2572MB6 ann 09/13/1
Lenovo USB Smartcard Keyboard 52 Wireless via 2.4GHz technology using a micro	51J0155 ann 03/24/09	ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)69 4420MB2 ann 09/13/1 69 DisplayPort cable is not included.
Mouse	SIZE OOD TECCIVET.	ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0) 1452DS6 ann 08/16/1
Lenovo Optical Mouse (USB)	06P4069 ann 05/21/03 41U3074 ann 01/23/07	
Lenovo Laser Mouse (USB) ThinkPad USB Laser Mouse	57Y4635 ann 12/15/09	More information at www.lenovo.com/support/monitors
Lenovo ScrollPoint® Mouse (USB, Optical) ThinkPad Travel Mouse (USB, Optical) ThinkPad Plustach Lagra Maria	31P7405 ann 08/27/02 31P7410 ann 06/04/02	Monitor Accessories ⁴⁶
ThinkPad Bluetooth Laser Mouse Lenovo Wireless Laser Mouse ⁵²	0A36407 <i>ann 06/26/12</i> 0A36188 <i>ann 12/20/11</i>	Lenovo USB 3.0 to DVI/VGA Monitor Adapter 0B47072 ann 08/14/12 Lenovo USB Soundbar 0A36190 ann 05/01/12
Multimedia		Kensington MicroSaver Cable Lock 73P2582 ann 12/29/03 Kensington Twin Head Cable Lock 45K1620 ann 09/30/03
ThinkPad In-Ear Headphones with microphone	57Y4488 ann 01/07/10	Lenovo Security Cable Lock 57Y4303 ann 08/24/11 Lenovo Easy Reach Monitor Stand 55Y9258 ann 09/22/09
Security Kensington® MicroSaver® Cable Lock	73P2582 ann 12/29/03	⁴⁶ Compatible on selected Lenovo and ThinkVision monitors.
Kensington Twin Head Cable Lock Lenovo Security Cable Lock	45K1620 ann 09/30/08 57Y4303 ann 08/24/10	More information at www.lenovo.com/support/monitoraccessories
USB Gemplus GemPC Smart Card Reader Tablet	41N3040 ann 02/21/06	For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories
ThinkPad Digitizer Pen ThinkPad Tablet Tether (3-pack)	41U3143 ann 11/14/06 41U4820 ann 11/14/06	www.lenovo.com/support/accessories Product specifications on Lenovo Support
		www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessory brochures
		www.lenovoquickpick.com An Options Compatibility Configurator for Lenovo systems







Lenovo ThinkPad X1 Carbon



Lenovo USB 2.0 Ethernet Adapter 0A36322



ThinkPad 90W AC Adapter for X1 Carbon 0B46994



Lenovo ThinkPad X1 Carbon



Lenovo ThinkPad X1 Carbon

ThinkPad® X1 Carbon (3444) - TopSeller

Type-m	nodel	Processor	Memory	Widescreen display	Camera	Disk SATA GB [®] rpm	PCIe Mini Card WLAN	PCIe Mini Car WWAN/ mSATA	d Carrier	Finger print reader	Blue- tooth	Intel AMT	Intel vPro	Preload (Ann Date (mm/yy)
3444-5	54U	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S28	⁸ Ericsson	AT&T	Finger	BT	iAMT	vPro	Pro 64	08/12
3444-5	53U	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	iAMT	vPro	Pro 64	08/12
≈ 3444-5	52U	i5-3317U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	None	None	Pro 64	08/12
≈ 3444-4	1ZU	i5-3317U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	None	None	Pro 64	08/12
≈ 3444-2	2KU	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	iAMT	vPro	Pro 64	08/12
≈ 3444-2	2HU	i5-3317U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	None	None	Pro 64	08/12
3444-2	2GU	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Pro 64	08/12
3444-2	2DU	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Pro 64	08/12
≈ 3444-2	28U	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Pro 64	08/12
≈ 3444-2	25U	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Pro 64	08/12
3444-B	BFU	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Pro 64	10/12
3444-B	BEU	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Pro 64	10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Genuine Windows® 7 Cores, 17-0GHz, 3MB cache), Intel HD Graphics 4000, DR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2 80GHz), HT technology Intel Core 15-3427U processor (2 cores, 1.30GHz, 3MB cache), Intel HD Graphics 4000, DR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2 80GHz), HT technology Intel Core 17-3667U processor (2 cores, 2.0GHz, 3MB cache), Intel HD Graphics 4000, DR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3 20GHz), HT technology Intel Core 17-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3 20GHz), HT technology Intel Core 17-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, Intel HD Graphics			
Memory 4 GB or 8 GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets Optical None SATA disk Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None Preloaded applications¹⁴ (only some isled) 14.0° (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2550x1600 (Mini-DisplayPort) @ 60Hz Keyboard TrackPoint® Tork/Vantage Dutton, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav", buttonless glass surface touch, and below keyboard, multi-touch None Dimensions³ Weight¹ Ja.0™ (MxDxH): 13.0° x 8.9° x 0.31-0.74°; 331mm x 226mm x 8.0-18.8mm Integrated battery (for 3.0 bt (1.36kg) Display over. Carbon Fibr; Bottom: Battery - type Ba	Positioning Processor	Intel® Core™ i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000,	Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) ■ Rescue and Recovery™
Optical None Solid Sate Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None Solid Sate Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None Solid Sate Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None 14.0" (365mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400 rl contrast ratio HD720 resolution, wide view angle, low light sensitive, face tracking, fixed focus Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort) €60Hz Keyboard TrackPoint* TrackPoint* TrackPoint* Once Tra	Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	9
Midescreen display 300 nits, 16:9 aspect ratio, 4001: contrast ratio 40	Optical SATA disk mSATA™ SSD	Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor	listed) • Lenovo® Solution Center
Hitch HD Graphics 4 Wild in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports VGA analog monitor via Mini DisplayPort) Keyboard FrackPoint* Ge-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint* pointing device, "Press-to-Select," Internet Scroll Bar³3 (adays of virus definitions) None None None None None None None None	Widescreen display Camera	300 nits, 16:9 aspect ratio, 400:1 contrast ratio	 ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint
Keyboard TrackPoint*® pointing device, "Press-to-Select," Internet Scroll Bar¹³ Touchpad Touchpad UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None Dimensions³ Weight® Case material Battery - Itle¹⁰ Battery - Itle¹⁰ Chipset Multicard reader Rorle WLAN Ports Carle WLAN Ports Carle Carrier Modem Bluetooth 4.0 wireless Bluetooth 4.0 wireless Bluetooth 4.0 wireless Ethernet Intel Addio support Security Security Security Fingerprint reader (Athentication, supports the security chip) Fingerprint reader acder on palm rest, swipe sensor, LED indicator, For Lengous Ports For Lengous Ports For Lengous Power On Authentication, supports the security chip None None None None Security Fingerprint reader Carle of Fingerprint reader on palm rest, swipe sensor, LED indicator, None None None None None None None None	Graphics	external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display:	ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync
Weight [®] Integrated battery: from 3.0 lb (1.36kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum Battery - life¹⁰ Integrated Lithium Polymer 4-cell RapidCharge battery Integrated battery (45.8Whr): up to 8.2 hr Mobile Intel QS77 Express Chipset Multicard reader ExpressCard Ports One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None PCIe Mini Card PCIe WLAN¹ PCIE WLAN¹ PCIE WWAN Carrier Modem Bluetooth™ Some: Intel Active Management Technology (iAMT) Audio support Intel AMT Audio support Security Security Fingerprint reader Fi	Keyboard TrackPoint® Touchpad ThinkLight™	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch	Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
Integrated battery (45.8Whr): up to 8.2 hr Chipset	Dimensions ³ Weight ² Case material Battery - type	Integrated battery: from 3.0 lb (1.36kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum	Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded;
Multicard reader ExpressCard None Ports One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) Monitor Cable PCIe Mini Card PCIe WLAN⁴ PCIe WLAN⁴ PCIe WWAN Carrier Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS Carrier None Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth 4.0 wireless The Audio support Some: Intel Active Management Technology (iAMT) Audio support Some: Intel Active Mana	Battery - life ¹⁰	Integrated battery (45.8Whr): up to 8.2 hr	
PCIe WLAN ⁴ PCIe WWAN 11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS Carrier Modem Bluetooth™ Bluetooth™ Bluetooth™ Bluetooth 4.0 wireless Ethernet Intel AMT Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant For compatible accessories, please go to O-X1-C sheet; For Lenovo service²² upgrade options	Chipset Multicard reader ExpressCard Ports Monitor Cable	4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None	
Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS Carrier Modem Modem Bluetooth™ Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Modein Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Security Chip Security Chip Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA+, GPS 90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant International Warranty Service¹¹ 24 hour x 7 day¹¹⁵ toll-free support during the warranty period¹² For compatible accessories, please go to O-X1-C sheet; For Lenovo service²² upgrade options			
Carrier Modem Modem Bluetooth™ Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Security Security Security Security Security Security Security Security Security Security Security Security Security Security Security Security Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip Some: AT&T®, contract required with service provider None Bluetooth 4.0 wireless Bluetooth 4.0 wireless None ShinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support during the warranty period¹² For compatible accessories, please go to O-X1-C sheet; For Lenovo service²² upgrade options	PCIe WWAN	Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card,	Supports ThinkVantage® technologies
Security chip Trusted Platform Module, TCG 1.2-compliant For compatible accessories, please go to O-X1-C sheet; Power On Authentication, supports the security chip For Lenovo service ²² upgrade options	Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	Some: AT&T®, contract required with service provider None Bluetooth 4.0 wireless None Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack	ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support
	Security chip	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	go to O-X1-C sheet;
	Limited warranty ¹	² 3-years /1-yr battery - depot repair service / service upgrades ²² available	

ThinkPad® X1 Carbon (3444) - TopSeller (Windows 8)

				Disk	PCle	PCIe Mini Ca	rd	Finger					Ann	
Type-model Proce	ssor Memory	Widescreen display	Camera	SATA GB [®] rpm	Mini Card WLAN	WWAN/ mSATA	Carrier	print reader			Intel vPro	Preload	Date (mm/yy	
3444-BDU i5-34	27U 8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	28 None	None	Finger	ВТ	iAMT	vPro	Win7 Pro64	10/12	
3444-BCU i5-34	27U 8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Win7 Pro64		
3444-B9U i5-34		14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger		iAMT	vPro	Win7 Pro64		
3444-B8U i5-34		14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger			vPro	Win7 Pro64		
≈ 3444-B7U i7-36		14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger		iAMT	vPro	Win7 Pro64		
3444-AZU i5-33 3444-59U i5-34		14.0" HD+ 14.0" HD+	720 p 720p	128G SSD 256G SSD	Intel 6205S Intel 6205S	None None	None None	Finger Finger		None iAMT	vPro	Win7 Pro64 Win8 Pro64		
3444-55U i5-33		14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger		None		Win8 Pro64		
3444-FGU i7-36		14.0" HD+	720p		Intel 6205S	None	None	Finger		iAMT	vPro	Win8 Pro64		
3444-FFU i7-36	67U 8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger		iAMT	vPro	Win8 Pro64	10/12	
3444-FEU i7-36	67U 8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Win8 Pro64	10/12	
3444-FDU i7-36		14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger		iAMT	vPro	Win8 Pro64		
3444-FCU i7-36		14.0" HD+	720p		Intel 6205S	Ericsson		Finger		iAMT	vPro	Win8 Pro64		
3444-FBU i7-36		14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson		Finger		IAMT	vPro	Win7 Pro64		
3444-FAU i7-36 3444-F9U i7-36		14.0" HD+	720p 720p	240G FDE SSD 180G SSD	Intel 6205S Intel 6205S	None None	None	Finger		iAMT iAMT	vPro vPro	Win7 Pro64 Win7 Pro64		
3444-F8U i7-36		14.0" HD+	720p	256G SSD	Intel 6205S	None	None None	Finger Finger		iAMT	vPro	Win7 Pro64		
3444-F7U i7-36		14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger			vPro	Win7 Pro64		
3444-BBU i5-34		14.0" HD+	720p		Intel 6205S	None	None	Finger		iAMT	vPro	Win7 Pro64		
3444-BAU i5-34		14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger		iAMT	vPro	Win7 Pro64		
3444-AWU i5-33		14.0" HD	720p	120G SSD	Intel 6205S	None	None	Finger		None		Win7 Pro64		
	67U 4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger		iAMT	vPro	Win8 Pro64	10/12	
3444-56U i5-34	27U 4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Win8 Pro64	10/12	
1 10063301	Processor Intel® Core™ i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology							- 5	, - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit - Preloaded applications⁵ (only some					
Memory			•	,-		, , , ,					d applic	cations (only	y some	
Optical SATA disk	Optical None								۱ - ا	- Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™ - ThinkVantage Power Manager - Lenovo SimpleTap - Microsoft® Office 2010 preloaded; - purchase product key to activate				
mSATA™ SSD	mSATA™ SSD None								_ • -					
display	Some: 14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio								• l					
	amera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus										•	•	vaic	
Graphics Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz								• L	_enovo _enovo _enovo	ws 8 mo Suppor Compa QuickLa oft® Office	t nion	aded;		
Keyboard	6-row, Think	/antage butto	n, LED k	acklit, spill-resista	nt, multimed	lia Fn keys			t	purchase product key to activate				
TrackPoint® Touchpad ThinkLight™	ckPoint® TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ chpad UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch							• L	All models Lenovo Solution Center Password Manager					
Dimensions ³ Weight ²	ensions ³ 14.0W" (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm ght ² Integrated battery: from 3.0 lb (1.36kg)							• F	Fingerprint Software (fingerprint models) Lenovo Cloud Storage					
Case material Battery - type	<i>Boṫtom:</i> Magnesium/Áluminum										arSync	siorage		
Battery - life ¹⁰	Integrated ba	attery (45.8Wi	<i>hr):</i> up to	8.2 hr	-				\perp					
Chipset Mobile Intel QS77 Express Chipset Multicard reader ExpressCard Ports One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None None														
PCIe Mini Card PCIe WLAN ⁴ PCIe WLAN ⁴ PCIe WWAN Two PCI Express Mini Card slots 11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 PCIe WWAN Some: Wireless WAN, Ericsson® H5321qw Mobile Broadband Module, PCIe Half Mini Card,								Su	Supports ThinkVantage® technologies					
Carrier Modem Bluetooth™	GPRS/WCDMA/HSPA/HSPA+, ĞPS Carrier Modem Bluetooth™ Bluetooth™ Ethernet Intel AMT Audio support GPRS/WCDMA/HSPA+, ĞPS Some: AT&T®, contract required with service provider None Bluetooth 4.0 wireless None Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack							Th	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant					
Intel AMT Audio support								RC Into 24	ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²					
Security Security chip Fingerprint reade							Fo go	For compatible accessories, please go to O-X1-C sheet;						
Limited warranty ¹² 3-years /1-yr battery - depot repair service / service upgrades ²² available							ple	For Lenovo service ²² upgrade options, please go to S-TA sheet						

ThinkPad® X1 Carbon (3444) - TopSeller (Windows 8) - II

		Widescreen	1	Disk SATA	PCIe PC Mini Card	Cle Mini Ca WWAN/	rd	Finger print	Blue-	Intel	Intel		Ann Date
Type-model Processor	Memory	display	Camera	GB ⁸ rpm	WLAN	mSATA	Carrier	reader	tooth	AMT	vPro	Preload	(mm/yy)
3444-GBU i5-3427U	4GBx1	14.0" HD	720p	128G SSD	Intel 6205S28	None	None	Finger	BT	iAMT	vPro	Win7 Pro64	02/13
3444-G9U i5-3427U	4GBx1	14.0" HD	720p	128G SSD	Intel 6205S	None	None	Finger	BT	iAMT	vPro	Win8 Pro64	02/13
3444-G8U i5-3337U	4GBx1	14.0" HD	720p	128G SSD	Intel 6205S	None	None	Finger	BT	None	None	Win8 Pro64	02/13
3444-G7U i5-3337U	4GBx1	14.0" HD	720p	128G SSD	Intel 6205S	None	None	Finger	BT	None	None	Win7 Pro64	02/13
3444-H3U i5-3337U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	None	None	Win8 Pro64	04/13
3444-GYU i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	Ericsson	selectable	Finger	BT	iAMT	vPro	Win7 Pro64	04/13
3444-GXU i5-3427U	4GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	selectable	Finger	BT	iAMT	vPro	Win7 Pro64	04/13
3444-GVU i5-3337U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	None	None	Win7 Pro64	04/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3337U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology Intel Core i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ⁵ (only some			
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	listed)			
Optical SATA disk mSATA™ SSD	None Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None	Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery			
Widescreen display	Some: 14.0" (355mm) HD (1366x768) TFT color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate			
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded;			
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None	 purchase product key to activate All models Lenovo Solution Center Password Manager 			
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm Integrated battery: from 3.0 lb (1.36kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum Integrated Lithium Polymer 4-cell RapidCharge battery Integrated battery (45.8Whr): up to 8.2 hr	 Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync 			
Chipset Multicard reader ExpressCard Ports Monitor Cable	Mobile Intel QS77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None				
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card,	Supports ThinkVantage® technologies			
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint readel	GPRS/WCDMA/HSPA+, GPS Some: User selectable, contract required with service provider None Bluetooth 4.0 wireless None Some: Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service¹ 24 hour x 7 day¹ 8 toll-free support during the warranty period¹ For compatible accessories, please go to O-X1-C sheet; For Lenovo service²² upgrade option please go to S-TA sheet			
	Power On Authentication, supports the security chip 2 3-years/1-yr battery - depot repair service / service upgrades ²² available				

Type-model	Processor Me	emory	Widescreen display	Camera	Disk SATA GB [®] rpm	PCle PO Mini Card WLAN	Cle Mini Car WWAN/ mSATA	d Carrier	Finger print reader	Blue-		Preload	Ann Date (mm/yy)
3444-CYU	i7-3667U 80	GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S28	Ericsson	AT&T	Finger	BT	vPro	Win8 Pro64	12/12
3444-CXU	i5-3427U 40	GBx1	14.0" HD+ <i>Multi</i>	720p	180G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro	Win8 Pro64	12/12
3444-CWU	i5-3427U 40	GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	Win8 Pro64	12/12
3444-CUU	i7-3667U 80	GBx1	14.0" HD+ <i>Multi</i>	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	Win8 Pro64	12/12
3444-H2U	i5-3427U 40	GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	Ericsson	selectable	Finger	BT	vPro	Win7 Pro64	04/13
3444-GZU	i7-3667U 80	GBx1	14.0" HD+ <i>Multi</i>	720p	240G FDE SSD	Intel 6205S	Ericsson	selectable	Finger	BT	vPro	Win7 Pro64	04/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 3-year limited warranty

Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	- Some: Windows 8 Pro 64-bit
Optical SATA disk mSATA™ SSD	None Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None	Preloaded applications ⁵ (only some listed) - Windows 7 models
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) TFT color , anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 400:1 contrast ratio, MultiTouch screen supports ten-finger gesture HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Lenovo® Message Center Plus ThinkVantage Product Recovery ThinkVantage Power Manager Lenovo SimpleTap
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	Lenovo Simple tap Windows 8 models Lenovo Support Lenovo Companion Lenovo QuickLaunch
Keyboard TrackPoint [®] Touchpad ThinkLight™	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None	 All models Lenovo Solution Center Password Manager Fingerprint Software (fingerprint
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.0" x 8.9" x 0.39-0.82"; 331mm x 226mm x 10.0-20.8mm Integrated battery: from 3.4 lb (1.54kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum	models) • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security
Battery - type Battery - life ¹⁰	Integrated Lithium Polymer 4-cell RapidCharge battery Integrated battery (45.8Whr): up to 8.2 hr	(30 days of virus definitions) • Microsoft® Office 2013 preloaded;
Chipset Multicard reader ExpressCard Ports Monitor Cable	Mobile Intel QS77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None	purchase product key to activate
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card,	
Corrior	GPRS/WCDMA/HSPA/HSPA+, ĞPS	Supports ThinkVantage® technologies
Carrier	Some: AT&T®, contract required with service provider Some: User selectable, contract required with service provider	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover)
Modem Bluetooth™	None Bluetooth 4.0 wireless	EPEAT™ Gold rating
Ethernet	None	ENERGY STAR® 5.2-compliant ROHS-compliant
Intel AMT Audio support	Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Security Security chip Fingerprint reade	Power-on password, hard disk password, supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-X1-C sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹	² 3-years /1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

See footnotes for more detailed information US model(s) announced December 11, 2012 or April 2, 2013

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ThinkPad® X1 Carbon (3448)

				Widescreen	,	Disk SATA	PCIe PCIe Mini Card Mini Card WWAN/		Mini DP to VGA	USB 2.0 (Ethernet Intel		Global (G) ntel GMP		Ann Date	
	Type-model	Processor	Memory	display	Camera	GB ⁸ rpm	WLAN	mSATA	Carrier	Cable	Adapter	vPro		Preload	
	3448-3AU	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S ²⁸	Ericsson	AT&T	None	None	vPro		Pro 64	08/12
⊱<	3448-39U	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	Ericsson	AT&T	mDP-VGA	Ethernet	vPro		Pro 64	08/12
	3448-34U	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	None	None	vPro	G	Pro 64	08/12
⊱<	3448-2MU	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	Ericsson	AT&T	None	None	vPro		Pro 64	08/12
	3448-35U	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	None	None	vPro	G	Pro 64	08/12
><	3448-25U	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	None	None	vPro	G	Pro 64	08/12
><	3448-24U	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	None	None	vPro	G	Pro 64	08/12
	3448-23U	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	None	None	vPro	G	Pro 64	08/12
	3448-22U	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	None	None	vPro	G	Pro 64	08/12

- A depot repair service 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only			
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	some listed) ■ Rescue and Recovery™			
Optical SATA disk mSATA™ SSD	None Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None	Password Manager Preloaded applications ¹⁴ (only some listed)			
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery			
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	 Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage 			
Keyboard TrackPoint [®] Touchpad ThinkLight™	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None	by SugarSync • Lenovo SimpleTap • Norton™ Internet Security 2012 (30 days of virus definitions)			
Dimensions ³ Weight ² Case material Battery - type	14.0W" (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm Integrated battery: from 3.0 lb (1.36kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum Integrated Lithium Polymer 4-cell RapidCharge battery	 Adobe® Reader® Skype™ for Windows Evernote® Symantec™ VIP Windows Live™ Essentials Microsoft® Office 2010 preloaded; 			
Chipset Multicard reader ExpressCard Ports Monitor Cable	Integrated battery (45.8Whr): up to 8.2 hr Mobile Intel QS77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) Some: Mini DisplayPort to VGA Monitor Cable (0A36536)	purchase product key to activate			
PCIe Mini Card PCIe WLAN ⁴	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2	Supports ThinkVantage® technologies			
PCIe WWAN Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security	Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA+, GPS Some: AT&T®, contract required with service provider None Bluetooth 4.0 wireless Some: Lenovo USB 2.0 Ethernet Adapter Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole, reset switch	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service¹ 24 hour x 7 day¹ 8 toll-free support during the warranty period¹ 2			
Security chip	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-X1-C sheet;			
Limited warranty ¹³	² 3-years /1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet			

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ThinkPad® X1 Carbon (3448) - Windows 8

			Widensum		Disk		PCIe Mini Card		Finger	Dive		obal		Ann
Type-model	Processor	Memory	Widescreen display	Camera	SATA GB [®] rpm	Mini Card WLAN	WWAN/ mSATA	Carrier	print reader	Blue- tooth		GMP (P)	Preload	Date (mm/yy)
≈ 3448-5DU	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S28	³ None	None	Finger	ВТ	vPro	G	Win8 Pro64	10/12
≈ 3448-5CU	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-5BU	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-5AU	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-59U	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-58U	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-95U	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	10/12
3448-94U	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	10/12
3448-AYU	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-AXU	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-AWU	i7-3667U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-AVU	i7-3667U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	10/12
3448-BBU	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win7 Pro64	12/12
3448-B8U	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win7 Pro64	12/12
3448-B6U	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win7 Pro64	12/12
3448-B4U	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win7 Pro64	12/12
3448-B3U	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	12/12
3448-B2U	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	12/12
3448-AZU	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	12/12
3448-CDU	i5-3427U	4GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win8 Pro64	02/13
3448-C4U	i5-3427U	4GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13
3448-C3U	i5-3427U	4GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	02/13
3448-C2U	i5-3427U	4GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	02/13

• A depot repair service 3-year limited warranty

	• A depot repair service 5-year littliced warranty	
Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	- Some: Windows 8 Pro 64-bit
Optical SATA disk mSATA™ SSD	None Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None	Preloaded applications ⁵ (only some listed) - Windows 7 models
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	 ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Windows 8 models
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None	Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type	14.0W" (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm Integrated battery: from 3.0 lb (1.36kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum Integrated Lithium Polymer 4-cell RapidCharge battery	All models Lenovo Solution Center Password Manager Fingerprint Software (fingerprint
Battery - life ¹⁰	Integrated battery (45.8Whr): up to 8.2 hr	models)
Chipset Multicard reader ExpressCard Ports Monitor Cable	Mobile Intel QS77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None	Lenovo Cloud Storage by SugarSync
PCIe Mini Card	Two PCI Express Mini Card slots	
PCIe WLAN ⁴ PCIe WWAN	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card,	Supports ThinkVantage® technologies
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	GPRS/WCDMA/HSPA+, GPS Some: AT&T®, contract required with service provider None Bluetooth 4.0 wireless None Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole, reset switch	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-X1-C sheet; For Lenovo service ²² upgrade options,
Limited warranty ¹²	3-years/1-yr battery - depot repair service / service upgrades ²² available	please go to S-TA sheet

ThinkPad® X1 Carbon (3448) - Windows 8 (MultiTouch)

	Tuna madal	Duanana	Mamani	Widescreen	Comera	Disk SATA	Mini Card	Cle Mini Ca WWAN/		Finger print		Intel		,	Ann Date
	Type-model	Processor	wemory	display	Camera	GB ⁸ rpm	WLAN	mSATA	Carrier	reader	tootn	VPIO	(P)	Preload	(mm/yy)
	3448-8SU	i5-3427U	4GBx1	14.0" HD+ <i>Multi</i>	720p	240G FDE SSD	Intel 6205S ²⁸	None	None	Finger	BT	vPro	G	Win8 Pro64	12/12
	3448-8RU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	12/12
	3448-7PU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	12/12
><	3448-7NU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	12/12
><	3448-7MU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	12/12
	3448-7FU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	12/12
	3448-C8U	i7-3667U	8GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13
	3448-C7U	i7-3667U	8GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13
	3448-C6U	i7-3667U	8GBx1	14.0" HD+ Multi	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13
	3448-C5U	i7-3667U	8GBx1	14.0" HD+ Multi	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	G	Win8 Pro64	02/13

• A depot repair service 3-year limited warranty

Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000,	Preloaded operating system ²⁰ - Windows® 8 Pro 64-bit Preloaded applications ⁵ (only some
	DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	listed)
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	- Windows 7 models
Optical SATA disk mSATA™ SSD	None Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None	 Lenovo® Message Center Plus ThinkVantage Product Recovery ThinkVantage Power Manager Lenovo SimpleTap
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 400:1 contrast ratio, MultiTouch screen supports ten-finger gesture HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	 Windows 8 models Lenovo Support Lenovo Companion
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	 Lenovo QuickLaunch All models Lenovo Solution Center Password Manager Fingerprint Software (fingerprint
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None	models) ■ Lenovo Cloud Storage by SugarSync ■ Norton™ Internet Security
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.0" x 8.9" x 0.39-0.82"; 331mm x 226mm x 10.0-20.8mm Integrated battery: from 3.4 lb (1.54kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum	 (30 days of virus definitions) Microsoft® Office 2013 preloaded; purchase product key to activate
Battery - type Battery - life ¹⁰	Integrated Lithium Polymer 4-cell RapidCharge battery Integrated battery (45.8Whr): up to 8.2 hr	
Chipset Multicard reader ExpressCard Ports	Mobile Intel QS77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort)	
Monitor Cable PCle Mini Card	None Two PCI Express Mini Card slots	
PCIe WLAN⁴	11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2	Supports ThinkVantage® technologies
PCIe WWAN	Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS	11 0 0
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support	Some: AT&T®, contract required with service provider None Bluetooth 4.0 wireless None Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole, reset switch	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹²
Security chip	Trusted Platform Module, TCG 1.2-compliant r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	For compatible accessories, please go to O-X1-C sheet;
Limited warranty ¹³	Power On Authentication, supports the security chip ² 3-years /1-yr battery - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

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ThinkPad® X1 Carbon (3460) - Onsite

				Widescreen		Disk SATA	PCle F Mini Card	PCIe Mini Card	d	Finger print	Blue-	G Intel	lobal (0 GMP	G)	Ann Date
	Type-model	Processor	Memory	display	Camera	GB [®] rpm	WLAN	mSATA	Carrier	reader	tooth	vPro	(P)	Preload	(mm/yy)
><	3460-37U	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S28	Ericsson	AT&T	Finger	BT	vPro		Pro 64	08/12
	3460-36U	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Pro 64	08/12
	3460-35U	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Pro 64	08/12
	3460-34U	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Pro 64	08/12
><	3460-25U	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Pro 64	08/12
><	3460-24U	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Pro 64	08/12
	3460-23U	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Pro 64	08/12
	3460-22U	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Pro 64	08/12

- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
	Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Ready to install applications ¹⁴ (only some listed)
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	Rescue and Recovery™
Optical SATA disk mSATA™ SSD	None Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None	Password Manager Preloaded applications ¹⁴ (only some listed)
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None	by SugarSync Lenovo SimpleTap Norton™ Internet Security 2012 (30 days of virus definitions)
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm Integrated battery: from 3.0 lb (1.36kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum	Adobe® Reader® Skype™ for Windows Evernote® Symantec™ VIP
Battery - type Battery - life ¹⁰	Integrated Lithium Polymer 4-cell RapidCharge battery Integrated battery (45.8Whr): up to 8.2 hr	Windows Live™ Essentials Microsoft® Office 2010 preloaded;
Chipset Multicard reader ExpressCard Ports Monitor Cable	Mobile Intel QS77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None	purchase product key to activate
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card,	
	GPRS/WCDMA/HSPA/HSPA+, GPS	Supports ThinkVantage® technologies
Carrier Modem	Some: AT&T®, contract required with service provider None	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover)
Bluetooth™	Bluetooth 4.0 wireless	EPEAT™ Gold rating `
Ethernet Intel AMT	None Intel Active Management Technology (iAMT)	ENERGY STAR® 5.2-compliant
Audio support Security Security chip	HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant	ROHS-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
	Power On Authentication, supports the security chip	For compatible accessories, please go to O-X1-C sheet;
Limited warranty ¹²	² 3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® X1 Carbon (3460) - Onsite (Windows 8)

	Widescreen		Disk SATA	PCle PCle Mini Card Mini Card WWAN/		Finger print	Blue-	G Intel	Ann Date					
Type-model	Processor	Memory	display	Camera	GB [®] rpm	WLAN		Carrier			vPro	GMP (P)	Preload	(mm/yy)
≈ 3460-5CU	i7-3667U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S28	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
≈ 3460-5DU	i7-3667U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-5BU	i5-3427U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-5AU	i5-3427U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-59U	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-58U	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-B2U	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	10/12
3460-AZU	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	10/12
3460-AYU	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-AXU	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-AWU	i7-3667U	8GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-AVU	i7-3667U	8GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	10/12
3460-BQU	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win7 Pro64	12/12
3460-BPU	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win7 Pro64	12/12
3460-BNU	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win7 Pro64	12/12
3460-BGU	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win7 Pro64	12/12
3460-BFU	i7-3667U	8GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	12/12
3460-BEU	i7-3667U	8GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	12/12
3460-BDU	i5-3427U	4GBx1	14.0" HD+	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	12/12
3460-BRU	i5-3427U	4GBx1	14.0" HD+	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	01/13
3460-CHU	i5-3427U	4GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	02/13
3460-CFU	i5-3427U	4GBx1	14.0" HD+	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro		Win8 Pro64	02/13
3460-CBU	i5-3427U	4GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	02/13
3460-CAU	i5-3427U	4GBx1	14.0" HD+	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro		Win7 Pro64	02/13

	• Some models are part of the Global Models Plus program with limited onsite service ²⁴ 3-year	limited warranty
Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	- Some: Windows 8 Pro 64-bit
Optical SATA disk mSATA™ SSD	None Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None	Preloaded applications ⁵ (only some listed) - Windows 7 models
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	ThinkVantage Power Manager Lenovo SimpleTap Microsoft® Office 2010 preloaded; purchase product key to activate Windows 8 models
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None	Lenovo Support Lenovo Companion Lenovo QuickLaunch Microsoft® Office 2013 preloaded; purchase product key to activate
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.0" x 8.9" x 0.31-0.74"; 331mm x 226mm x 8.0-18.8mm Integrated battery: from 3.0 lb (1.36kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum Integrated Lithium Polymer 4-cell RapidCharge battery Integrated battery (45.8Whr): up to 8.2 hr	All models Lenovo Solution Center Password Manager Fingerprint Software (fingerprint models)
Chipset Multicard reader ExpressCard Ports Monitor Cable	Mobile Intel QS77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None	Lenovo Cloud Storage by SugarSync
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA+, GPS	Supports ThinkVantage® technologies
Carrier Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	Some: AT&T®, contract required with service provider None Bluetooth 4.0 wireless None Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 / volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating ENERGY STAR® 5.2-compliant ROHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support during the warranty period¹2
Fingerprint reader	AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-X1-C sheet;
Limited warranty ¹²	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® X1 Carbon (3460) - Onsite (Windows 8) - MultiTouch

			Widescreen		Disk SATA	PCle F Mini Card	Cle Mini Ca WWAN/	rd	Finger print			lobal (G)	Ann Date
Type-model	Processor	Memory	display	Camera		WLAN	mSATA	Carrier	reader			(P)	Preload	(mm/yy)
3460-AMU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S28	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	12/12
3460-ALU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	12/12
3460-9WU	i7-3667U	8GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	12/12
3460-9VU	i7-3667U	8GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	12/12
3460-9UU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	12/12
3460-9TU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	Ericsson	AT&T	Finger	BT	vPro		Win8 Pro64	12/12
3460-9SU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	12/12
3460-9RU	i5-3427U	4GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	12/12
3460-CGU	i7-3667U	8GBx1	14.0" HD+ Multi	720p	256G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	02/13
3460-CEU	i7-3667U	8GBx1	14.0" HD+ Multi	720p	240G FDE SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	02/13
3460-CDU	i7-3667U	8GBx1	14.0" HD+ Multi	720p	180G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	02/13
3460-CCU	i7-3667U	8GBx1	14.0" HD+ <i>Multi</i>	720p	128G SSD	Intel 6205S	None	None	Finger	BT	vPro	GΡ	Win8 Pro64	02/13

• Some models are part of the Global Models Plus program with limited onsite service24 3-year limited warranty

Positioning Processor	Ultralight, durable, secure, and stylish Ultrabook™; one spindle Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000,	Preloaded operating system ²⁰ - Windows® 8 Pro 64-bit
	DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology Intel Core i7-3667U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology	Preloaded applications ⁵ (only some listed)
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets	- Windows 7 models
Optical SATA disk mSATA™ SSD	None Solid State Drive (SSD) / SATA 6.0Gb/s, Small Form Factor None	Lenovo® Message Center Plus ThinkVantage Product Recovery ThinkVantage Power Manager Lenovo SimpleTap
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) TFT color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 400:1 contrast ratio, MultiTouch screen supports ten-finger gesture HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Windows 8 models Lenovo Support Lenovo Companion
Graphics	Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display; Max external resolution: 2560x1600 (Mini-DisplayPort)@60Hz	Lenovo QuickLaunch All models Lenovo Solution Center Password Manager Fingerprint Software (fingerprint
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, ThinkVantage button, LED backlit, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³ UltraNav™, buttonless glass surface touchpad below keyboard, multi-touch None	models) • Lenovo Cloud Storage by SugarSync • Norton™ Internet Security
Dimensions ³ Weight ² Case material	14.0W" (WxDxH): 13.0" x 8.9" x 0.39-0.82"; 331mm x 226mm x 10.0-20.8mm Integrated battery: from 3.4 lb (1.54kg) Display cover: Carbon Fiber; Bottom: Magnesium/Aluminum	 (30 days of virus definitions) Microsoft® Office 2013 preloaded; purchase product key to activate
Battery - type Battery - life ¹⁰	Integrated Lithium Polymer 4-cell RapidCharge battery Integrated battery (45.8Whr): up to 8.2 hr	
Chipset Multicard reader ExpressCard Ports Monitor Cable	Mobile Intel QS77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None One USB 3.0, one powered USB 2.0, external monitor (Mini DisplayPort) None	
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Small Form Factor Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Some: Wireless WAN, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card,	
	GPRS/WCDMA/HSPA/HSPA+, ĞPS	Supports ThinkVantage® technologies
Carrier Modem Bluetooth™	Some: AT&T®, contract required with service provider None Bluetooth 4.0 wireless	90-watt AC Adapter (RapidCharge) ThinkPad Roll Cage (bottom cover) EPEAT™ Gold rating
Ethernet Intel AMT Audio support	None Intel Active Management Technology (iAMT) HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 2 watt x 2 /	ENERGY STAR® 5.Ž-compliant ROHS-compliant International Warranty Service ¹⁷
Security Security chip	volume up, down, mute buttons / dual array microphone, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
	r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	For compatible accessories, please go to O-X1-C sheet;
Limited warranty ¹³	² 3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-TA sheet

ThinkPad® X1 Carbon Accessories

Storage and removable storage				Power Adapters	
USB 2.0 Portable 500GB Hard Disk	45K1690	ann	05/26/09	ThinkPad 90W AC Adapter for X1 Carbon	0B46994 ann 08/14/12
USB 3.0 Secure 500GB Hard Drive	0A65619	ann	11/29/11	90W Ultraslim AC/DC Combo Adapter ⁷⁰	41R4493 ann 09/22/09
USB 3.0 Secure 750GB Hard Drive	0A65616	ann	11/29/11	⁷⁰ Requires the <i>Lenovo Slim Power Tip 0B47048</i>	
USB 3.0 Secure 1TB Hard Drive Lenovo Slim USB Portable DVD Burner			08/28/12 06/14/11	More info at www.lenovo.com/support/powerada	pters
Lenovo Siim OSB Portable DVD Burrier	0A33988	ann	06/14/11	Charging tips for 90W Ultraslim AC/DC Combo Ada	ntor 41 D 4402
ThinkDad Evnancian					
ThinkPad Expansion	0400040	000	00/00/11	•Lenovo Slim Power Tip	0B47048 ann 08/14/12
USB 2.0 Port Replicator with Digital Video			03/22/11 05/15/12	More information at www.lenovopowertips.com	
ThinkPad USB 3.0 Dock					
Lenovo Essential Notebook Stand	45J9292	ann	05/12/09	Carrying Cases	
May la a and				Up to 14" widescreen models:	
Keyboard	700000		10/10/00	ThinkPad 14W Case Sleeve	57Y4294 ann 03/16/10
TrackPoint Cap Collection			12/16/03	14W Ultrabook Topload & Small Sleeve Set - Black	0B95758 ann 08/07/12
Ultraslim Plus Wireless Keyboard and Mouse ⁵²	0A34U32		04/05/11	14W Ultrabook Topload & Small Sleeve Set - Brown	0B95757 <i>ann 08/07/12</i>
USB Numeric Keypad			05/01/00	14W Ultrabook Topload & Standard Sleeve Set - Bla	
Preferred Pro USB Keyboard			06/21/05	•	0B95750 ann 08/07/12
Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint			03/23/04	14W Ultrabook Topload & Standard Sleeve Set - Bro	
			08/18/09 02/22/05	•	0B95751 ann 08/07/12
Lenovo® USB Fingerprint Keyboard				Un to 15 6" widesers on models.	
Lenovo USB Smartcard Keyboard 52 Wireless via 2.4GHz technology using a mi			03/24/09	Up to 15.6" widescreen models: ThinkPad Business Topload Case	43R2476 ann 05/13/08
Wireless via 2.4GHZ technology using a mil	JIO-SIZE USD I	eceiv	ei.	ThinkPad Business Backpack	
Mouse					43R2482 ann 05/13/08
Mouse Lenovo Optical Mouse (USB)	06P4069	onn	05/21/03	Lenovo Sport Backpack - Red	0A33896 ann 02/28/12 0A33897 ann 02/28/12
Lenovo Laser Mouse (USB)				Lenovo Sport Slimcase - Red	
ThinkPad USB Laser Mouse			01/23/07 12/15/09	Lenovo Sport Messenger - Red	0A33898 ann 02/28/12
Lenovo ScrollPoint® Mouse (USB, Optical)			08/27/02	More information at www.lenovo.com/support/cas	
ThinkPad Travel Mouse (USB, Optical)			06/04/02	Lenovo luxury cases at www.lenovoluxurycases.c	com
ThinkPad Bluetooth Laser Mouse			06/04/02		
Lenovo Wireless Laser Mouse ⁵²			12/20/11	Monitors ⁶⁴	
Lenovo vviieless Laser iviouse	0/100	am	12/20/11	ThinkVision LT1421 Wide 14" Mobile Monitor	
Multimedia				with Protective Screen Cover (USB 2.0)	1452DS6 ann 08/16/11
ThinkPad In-Ear Headphones with microphone	57V1100	ann	01/07/10	ThinkVision LT1421 Wide 14" Mobile Monitor	
minki ad in-Lai rieadphones with microphone	37 14400	am	01/07/10	with Protective Case (USB 2.0)	1452DB6 ann 08/16/11
Modem				More information at www.lenovo.com/support/mo	
LISB 2.0 Lenovo Modem	/3D191/	ann	02/26/08	wore information at www.ienovo.com/support/inc	onitors
USB 2.0 Lenovo Modem	43R1814	ann	02/26/08	•••	onitors
	43R1814	ann	02/26/08	Monitor Accessories ⁴⁶	
Ethernet				Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter	0B47072 ann 08/14/12
			02/26/08 08/14/12	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable	0B47072 ann 08/14/12 0A36536 ann 05/17/11
Ethernet Lenovo USB 2.0 Ethernet Adapter				Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12
Ethernet Lenovo USB 2.0 Ethernet Adapter Security	0A36322	ann	08/14/12	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12
Ethernet Lenovo USB 2.0 Ethernet Adapter Security 3M 14.0W Privacy Filter from Lenovo	0A36322 0A61769	ann ann	08/14/12 04/05/11	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12
Ethernet Lenovo USB 2.0 Ethernet Adapter Security	0A36322 0A61769 nd X1 Carbon T	ann ann Touch	08/14/12 04/05/11	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Lenovo Security Cable Lock	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12 57Y4303 ann 08/24/10
Ethernet Lenovo USB 2.0 Ethernet Adapter Security 3M 14.0W Privacy Filter from Lenovo 3M 14.0W Privacy Filter from Lenovo for X1 ar	0A36322 0A61769 nd X1 Carbon 1 4Z10A22782	ann ann Touch ann	08/14/12 04/05/11	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09
Ethernet Lenovo USB 2.0 Ethernet Adapter Security 3M 14.0W Privacy Filter from Lenovo 3M 14.0W Privacy Filter from Lenovo for X1 ar 74 Only compatible with ThinkPad X1 Carbon	0A36322 0A61769 nd X1 Carbon 1 4Z10A22782 MultiTouch mo	ann ann Touch ann dels.	08/14/12 04/05/11 74 03/26/13	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09 monitors.
Ethernet Lenovo USB 2.0 Ethernet Adapter Security 3M 14.0W Privacy Filter from Lenovo 3M 14.0W Privacy Filter from Lenovo for X1 ar	0A36322 0A61769 Id X1 Carbon 1 4Z10A22782 MultiTouch mod 57Y4303	ann ann Touch ann dels. ann	08/14/12 04/05/11	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision More information at www.lenovo.com/support/mo	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09 monitors.
Ethernet Lenovo USB 2.0 Ethernet Adapter Security 3M 14.0W Privacy Filter from Lenovo 3M 14.0W Privacy Filter from Lenovo for X1 ar ⁷⁴ Only compatible with ThinkPad X1 Carbon Lenovo Security Cable Lock	0A36322 0A61769 Id X1 Carbon T 4Z10A22782 MultiTouch mod 57Y4303	ann ann Touch ann dels. ann	08/14/12 04/05/11 74 03/26/13 08/24/10	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision More information at www.lenovo.com/support/more	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09 monitors.
Ethernet Lenovo USB 2.0 Ethernet Adapter Security 3M 14.0W Privacy Filter from Lenovo 3M 14.0W Privacy Filter from Lenovo for X1 ar ⁷⁴ Only compatible with ThinkPad X1 Carbon Lenovo Security Cable Lock	0A36322 0A61769 Id X1 Carbon T 4Z10A22782 MultiTouch mod 57Y4303	ann ann Touch ann dels. ann	08/14/12 04/05/11 74 03/26/13 08/24/10	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision More information at www.lenovo.com/support/mo	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09 monitors.
Ethernet Lenovo USB 2.0 Ethernet Adapter Security 3M 14.0W Privacy Filter from Lenovo 3M 14.0W Privacy Filter from Lenovo for X1 ar ⁷⁴ Only compatible with ThinkPad X1 Carbon Lenovo Security Cable Lock	0A36322 0A61769 Id X1 Carbon T 4Z10A22782 MultiTouch mod 57Y4303	ann ann Touch ann dels. ann	08/14/12 04/05/11 74 03/26/13 08/24/10	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision More information at www.lenovo.com/support/more	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09 monitors.
Ethernet Lenovo USB 2.0 Ethernet Adapter Security 3M 14.0W Privacy Filter from Lenovo 3M 14.0W Privacy Filter from Lenovo for X1 ar ⁷⁴ Only compatible with ThinkPad X1 Carbon Lenovo Security Cable Lock	0A36322 0A61769 Id X1 Carbon T 4Z10A22782 MultiTouch mod 57Y4303	ann ann Touch ann dels. ann	08/14/12 04/05/11 74 03/26/13 08/24/10	Monitor Accessories ⁴⁶ Lenovo USB-to-DVI/VGA Monitor Adapter Lenovo Mini-DisplayPort to VGA Monitor Cable Mini-DisplayPort to Single-link DVI Monitor Cable Mini-DisplayPort to DisplayPort Monitor Cable Lenovo USB Soundbar Lenovo Security Cable Lock Lenovo Easy Reach Monitor Stand 46 Compatible on selected Lenovo and ThinkVision More information at www.lenovo.com/support/mo	0B47072 ann 08/14/12 0A36536 ann 05/17/11 0B47090 ann 06/26/12 0B47091 ann 07/24/12 0A36190 ann 05/01/12 57Y4303 ann 08/24/10 55Y9258 ann 09/22/09 monitors.

www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems

ThinkPad® - TopSeller Services

The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.

For more information see:

http://www2.partnerinfo.lenovo.com/partners/us/resources/salestoolkit.shtml

TopSeller service upgrade options for ThinkPad L/T/W/X Series	
ThinkPad X130e/X131e notebook with 1-year Depot warranty	
3 YEAR Depot Warranty 3 YEAR Depot Warranty & ThinkPad Protection	04W9345 04W9347
3 YEAR Onsite Warranty 3 YEAR Onsite Warranty & ThinkPad Protection	04W9346 04W9348
ThinkPad X1 and T430u notebook with 1-year Depot warranty	
3 YEAR Depot Warranty with Battery Replacement 3 YEAR Depot Warranty with Battery Replacement & ThinkPad Protection	04W8702 04W8704
3 YEAR Onsite Warranty with Battery Replacement 3 YEAR Onsite Warranty with Battery Replacement & ThinkPad Protection	04W8703 04W8705
ThinkPad X1, X1 Carbon, and T430u notebook with 3-year Depot warrant	y
3 YEAR Depot Warranty with Battery Replacement 3 YEAR Depot Warranty with Battery Replacement & ThinkPad Protection	04W8780 04W8778
3 YEAR Onsite Warranty with Battery Replacement 3 YEAR Onsite Warranty with Battery Replacement & ThinkPad Protection	04W8777 04W8779
ThinkPad X Series Tablet with 1-year Depot warranty	
3 YEAR Depot Warranty & ThinkPad Protection	04W8781
3 YEAR Onsite Warranty & ThinkPad Protection	04W8782
ThinkPad Helix with 1-year Depot warranty	
3 YEAR Depot Warranty	04W8692
3 YEAR Onsite Warranty	04W8693
ThinkPad Helix with 3-year Depot warranty	
3 YEAR Onsite Warranty	04W8699
ThinkPad X Series Tablet with 3-year Depot warranty	
3 YEAR Depot Warranty & ThinkPad Protection	04W8700
3 YEAR Onsite Warranty 3 YEAR Onsite Warranty & ThinkPad Protection	04W8699 04W8701
ThinkPad L/T/W & X Series (except above) with 1-year Depot warranty	
3 YEAR Depot Warranty 3 YEAR Depot Warranty & ThinkPad Protection	04W8692 04W8694
3 YEAR Onsite Warranty 3 YEAR Onsite Warranty & ThinkPad Protection	04W8693 04W8695
ThinkPad L/T/W & X Series (except above) with 3-year Depot warranty	
3 YEAR Depot Warranty & ThinkPad Protection	04W8697
3 YEAR Onsite Warranty 3 YEAR Onsite Warranty & ThinkPad Protection	04W8696 04W8698

TopSeller Priority Support

• 24x7 support with priority routing and advanced level technicians

ThinkPad L/T/W/X Series (except X131e & X1 Carbon) notebook with 1-year or 3-year Depot warranty

Add to 1-year or 3-year warranty coverage - 3-year Priority Support* 04W8720

^{*} Covered machine must have concurrent warranty coverage.

ThinkPad® - Lenovo® Services

2 YEAR Depot Warranty 45K5971 3 YEAR Depot Warranty 45K5972 4 YEAR Depot Warranty 45K5974 5 YEAR Depot Warranty 45K5976 1 YEAR Onsite Warranty 45K5968 1 YEAR Onsite Warranty 45K5968 2 YEAR Onsite Warranty 45K5969 4 YEAR Onsite Warranty 47K5969 4 YEAR Onsite Warranty 48K5969 4 YEAR Onsite Warranty 49K5969 4 YEAR Onsite Warra	varranty 1C9169 1C9170 1C9172 1C9174 1C9166 1C9167 1C9168 1C9171
Time Part of Series (except 14360/1431s) with 1-year bepot warranty 3 YEAR Depot Warranty 3 YEAR Depot Warranty 4 YEAR D	1C9170 1C9172 1C9174 1C9166 1C9167 1C9168
2 YEAR Depot Warranty	1C9172 1C9174 1C9166 1C9167 1C9168
4 YEAR Depot Warranty 45K5974 5 YEAR Depot Warranty 45K5976 1 YEAR Onsite Warranty 42 YEAR Onsite Warranty 2 YEAR Onsite Warranty 45K5968 2 YEAR Onsite Warranty 45K5969 4 YEAR Onsite Warranty 44WEAR Onsite Warranty	1C9166 1C9167 1C9168
2 YEAR Onsite Warranty 2 YEAR Onsite Warranty 4 1 YEAR Onsite Warranty 45K5968 3 YEAR Onsite Warranty 4 2 YEAR Onsite Warranty 4 YEAR Onsite Warranty 4	1C9167 1C9168
1 YEAR Onsite Warranty 45K5968 3 YEAR Onsite Warranty 45K5969 4 YEAR ONSITE WARRANT	1C9168
	1C9173
4 YEAR Onsite Warranty 45K5973 5 YEAR Onsite Warranty 45K5975 ThinkPad W/X series and T430u notebook with 3-year Depot w	arranty
ThinkPad T/L series (except T430u/T431s) with 3-year Depot warranty 4 YEAR Depot Warranty 4	1C9178
4 YEAR Depot Warranty 45K6023	1C9180
4 YEAR Onsite Warranty 4	1C9176 1C9177
	1C9179
5 YEAR Onsite Warranty 45K6024 ThinkPad W/X series and T430u notebook with 3-year Onsite w	varranty
TIIIINFAU I/E 3CIIC3 ICACCDL 145UU/14515/ WILII 5-VCAI OIISILE WAITAIILV	2X5630 3R2162
4 YEAR Onsite Warranty 45K6038	3NZ 10Z
5 YEAR Onsite Warranty 43R2162 Lenovo service upgrade options for ThinkPad Helix	
ThinkPad T431s notebook with 1-year Depot warranty 2 YEAR Depot Warranty 5WS0A14073 2 YEAR Depot Warranty	100100
3 YEAR Depot Warranty 5WS0A14081 3 YEAR Depot Warranty 4	1C9169 1C9170
5 YEAR Depot Warranty 5WS0A14108	1C9172
1 YEAR Onsite Warranty	1C9166 1C9167
2 YEAR Onsite Warranty 5WS0A14078 3 YEAR Onsite Warranty 4	1C9168
4 YEAR Onsite Warranty 5WS0A14093	1C9171
5 YEAR Onsite Warranty 5 WS0A14083 ThinkPad Helix with 3-year Depot warranty	
Think at 14010 hotebook with a year below warranty	1C9178
	1C9176 1C9177
3 YEAR Onsite Warranty 5WS0A23006 ThinkPad Helix with 3-year Onsite warranty	
4 YEAR Onsite Warranty 5 YEAR Onsite Warranty 5 WS0A22852 5 YEAR Onsite Warranty 12	2X5630
ThinkPad T431s notebook with 3-year Onsite warranty Lenovo Priority Support for enterprise customers	
4 YEAR Onsite Warranty 5WS0A23136 • 24x7 support with priority routing and advanced level technicians	;
5 YEAR Onsite Warranty 5WS0A22893 ThinkPad notebook with 1-year Depot warranty	
	5J9094
2 YEAR Depot Warranty 3 YEAR Depot Warranty 04W9142 04W9146 ThinkPad notebook with 3-year Depot warranty	
1 YEAR Onsite warranty	5J9095 5J9096
$12.4 \pm \Delta B$ (Incite Warranty)	5J9097
4 YEAR Onsite Warranty 04W9151 ThinkPad notebook with 3-year Onsite (GMP) warranty	
	5J9098
	5J9099 5J9100
& ThinkPad Protection 04W7785 ThinkPad Workstation notebook with 1-year Depot warranty	
3 YEAR Onsite Warranty with Battery Replacement 3 YEAR Onsite Warranty with Battery Replacement 49 Add to 3-year warranty coverage - 3-year Priority Support* 49	5J9107
& ThinkPad Protection 04W8261 ThinkPad Workstation notebook with 3-year Depot warranty	
Add to 4-year warranty coverage - 4-year Priority Support*	5J9108 5J9109 5J9110
3 YEAR Onsite Warranty with Battery Replacement & ThinkPad Protection 04W7789 **ThinkPad Workstation notebook with 3-year Onsite (GMP) war	
	5J9111
Add to 4-year warranty coverage - 4-year Priority Support* 49	5J9112 5J9113
* Covered machine must have concurrent warranty coverage.	

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, go to http://support. lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

- Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
- Weight includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
- Thinness may vary at certain points on the system.
- Wireless capability: Requires compatible wireless-enabled options sold separately.
- TAA: ThinkPad notebook is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.
- Public network download modem speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- Maximum memory capacity may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.
- B Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

- 9 CD/DVD drive speeds list maximum rates; rates are variable and are often less than the maximum.
- ¹⁰ Battery: These model numbers achieved the battery life based on MobileMark® 2007 during testing. For the ThinkPad X300, battery life is based on Business Winstone Battery Mark 2002. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.
- 11 External monitor: This system supports a maximum of two external monitors. The integrated display(s) must be disabled to support two external monitors.
- Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
- 13 Internet access not included.
- ¹⁴ Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.
- ¹⁶ Activating Verizon Wireless Service: Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.
- ¹⁷ International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

- ¹⁸ Telephone support may be subject to additional charges, even during the limited warranty period. Response times may vary. May exclude some holidays. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, Lenovo will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For ThinkPad notebooks with Depot or Courier service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.
- ¹⁹ Depot repair service: The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.
- Operating System: Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.
- For combination drives, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read. DVD read.

- ²² **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For Think-Pad notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See Lenovo Warranty Services terms and conditions for complete details and restrictions.
- ²³ Activating AT&T Wireless Service:
 - Requires separate agreement with AT&T, subject to service agreement, rate plan and coverage maps. AT&T, not Lenovo, is solely responsible for service. Coverage not available in all areas; AT&T BroadbandConnect available in select metropolitan markets. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, thirdparty software, additional hardware, and/ or subscription to a third-party service may be required for certain solutions/ applications. Additional restrictions apply, including early termination fee; see www.wireless.att.com for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.

- ²⁴ Limited onsite service systems are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.
- ²⁶ **Full-size keyboard:** As defined by ISO/ IEC 15412.
- Based on IEEE 802.11a and 802.11b. A customer can not upgrade to a different wireless Mini PCI adapter due to FCC regulations. Security screws prevent removal of this adapter. This wireless LAN product has been designed to permit legal operation world-wide in regions which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.

- The IEEE 802.11n specification (MIMO) has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.
- ³⁰ Measures only maximum data transfer rate, not application performance. Many factors affect application performance.

- Wireless: Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.
- ³⁶ Wireless upgradable allows the system to be wireless-enabled with an optional wireless Mini PCI or Mini PCI Express card. Designed to operate only with Lenovo options.

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Visit www.lenovo.com/psref for the latest version of Personal Systems Reference.

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> Lenovo 1009 Think Place Morrisville, NC 27560 U.S.A.

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