

Product Specifications Reference Lenovo® ThinkPad® Tablets/Convertibles 2014 to present - withdrawn

July 2014 - Version 457



ThinkPad 8

Contents

Summary of Changes	1
ThinkPad 8	
ThinkPad 8 (20BN) - TopSeller	3
ThinkPad 8 (20BQ)	
ThinkPad Twist S230u	
ThinkPad Twist S230u (20C4) - Ultrabook	6
ThinkPad Twist S230u (3347) - TopSeller (Ultrabook)	
ThinkPad Twist S230u (3347) - TopSeller (Ultrabook) - II	
ThinkPad Twist S230u (3347) - TopSeller	
ThinkPad Twist S230u Accessories	10

Summary of Changes

This section describes the withdrawn products which are added in this edition and in previous editions.

July 30, 2014 - Version 457

► Withdrawn product(s)

ThinkPad Twist S230u are withdrawn and added in the book

ThinkPad 8



Lenovo® ThinkPad 8



Lenovo ThinkPad 8



Lenovo ThinkPad 8



Lenovo ThinkPad 8



Lenovo ThinkPad 8



Lenovo ThinkPad 8

Type-model	Processor	Memory	Widescreen display	Storage	Front/	Bluetooth Keyboard w/ Stand		PCIe Mini Card WWAN	Carrier	NFC	Blue- tooth	Preload	Ann Date (mm/yy)
20BN000VUS	Atom Z3770	2GB	8.3" WUXGA	128G	2.0/8.0	None	11a/b/g/n ²⁸	None	None	None	BT	Win8.1 32	01/14
20BN000UUS	Atom Z3770	2GB	8.3" WUXGA	64G	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8.1 32	01/14
20BN001RUS	Atom Z3770	2GB	8.3" WUXGA	128G	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8.1 Pro32	01/14
20BN002DUS	Atom Z3770	2GB	8.3" WUXGA	64G	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8.1 Pro32	01/14

Positioning	Touchscreen tablet for on-the-go business	Preloaded operating system ²⁰
Processor	Intel® Atom™ Processor Z3770 (4 cores, 2.40GHz, 2MB cache), LPDDR3 memory controller (1067MHz)	- Some: Windows® 8.1 32-bit - Some: Windows 8.1 Pro 32-bit
Memory	2GB / 1067MHz LPDDR3, mobile DDR / soldered to systemboard, no sockets	Preloaded applications ¹⁴ (only some
Storage Storage extension	64GB or 128GB / eMMC (embedded Multi Media Card) flash memory on board n One microSD Card slot, supports up to 64GB	listed)Lenovo SupportLenovo Companion
Graphics	Intel HD graphics in Intel Atom SoC,	 Norton™ Internet Security
Display	supports 1080p video out via mini-HDMI™ connector, HDCP-compliant 8.3" (210.8mm) WUXGA (1920x1200) TFT color, smudgeless display with infinity AGC Dragontrail™ Glass, LED backlight, 370 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, WideView (160° viewing), MultiTouch screen supports 10-finger gesture	(30 days of virus definitions) ThinkVantage System Update AccuWeather Evernote® Nitro PDF
Tablet pen	None	Amazon Kindle
Camera Video capture	Front camera: 2.0-megapixel, fixed focus Rear camera: 8.0-megapixel, auto focus, flash LED 1080p video capture	
Audio support	Realtek® ALC5672 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, combo audio/microphone jack	
Media capable	Audio formats: MP3, AAC, AAC+, AC3, PCM, WMA, WAV, AVI Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Motion-JPG	
Control buttons	Windows button, Power button, volume control button, reset switch	
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, ISL29023 3D accelerometer and 3D magnetometer module, AK8963C InvenSense MPU6050	
Platform Ports	Intel Atom Z3770 SoC (System on Chip) platform One micro-USB 3.0, one micro-HDMI, headphone/microphone combo jack	
WLAN⁴ WWAN Carrier GNSS Bluetooth™ NFC	11a/b/g/n ²⁸ wireless, ThinkPad 11a/b/g/n, 1x1, WiFi + Bluetooth combo chip None None None Bluetooth 4.0 wireless, integrated in WiFi + Bluetooth combo chip None	
Dimensions ³ Weight ² Case color Case material	8.83" x 5.20" x 0.35"; 224.3mm x 132.0mm x 8.8mm WiFi only: from 0.95 lb (0.43kg) Black ALuminium top cover, Edge Profile Rubber	10-watt AC adapter (via micro-USB) GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷
Battery - type Battery - life ¹⁰	Lithium Polymer, 20.5Whr up to 17 days (standby); up to 8.0 hr (web browsing with flash)	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Limited Warranty	12 1-year - depot repair service / service upgrades ²² available	For Lenovo service ²² upgrade options, please go to S-Tablet sheet

See footnotes for more detailed information US model(s) announced January 28, 2014

ThinkPad 8 (20BQ)

Type-model	Processor	Memory	Widescreen display	Storage	Front/	Bluetooth Keyboard w/ Stand	WLAN	PCIe Mini Card WWAN	Carrier	NFC	Blue- tooth	Preload	Global	Ann Date (mm/yy)
20BQ000KUS	Atom Z3770	2GB	8.3" WUXGA	64G	2.0/8.0	None	11a/b/g/n ²⁸	None	None	None	ВТ	Win8.1 32	G	01/14
20BQ000LUS	Atom Z3770	2GB	8.3" WUXGA	128G	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8.1 32	G	01/14
20BQ0012US	Atom Z3770	2GB	8.3" WUXGA	128G	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8.1 Pro32	2 G	01/14
20BQ0015US	Atom Z3770	2GB	8.3" WUXGA	64G	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8.1 Pro32	2 G	01/14
20BQ001GUS	Atom Z3795	4GB	8.3" WUXGA	128G	2.0/8.0	None	11a/b/g/n	None	None	None	BT	Win8.1 Pro64	4 G	06/14

Positioning	Touchscreen tablet for on-the-go business	Preloaded operating system ²⁰
Processor	Intel® Atom™ Processor Z3770 (4 cores, 2.40GHz, 2MB cache), LPDDR3 memory controller (1067MHz), support 32-bit OS Intel Atom Processor Z3795 (4 cores, 2.40GHz, 2MB cache), LPDDR3 memory controller (1067MHz), support 64-bit OS	- Some: Windows® 8.1 32-bit - Some: Windows 8.1 Pro 32-bit - Some: Windows 8.1 Pro 64-bit Preloaded applications¹4 (only some
Memory	2GB / 1067MHz LPDDR3, mobile DDR / soldered to systemboard, no sockets	listed) • Lenovo Support
Storage extension	64GB or 128GB / eMMC (embedded Multi Media Card) flash memory on board none microSD Card slot, supports up to 64GB	Lenovo Support Lenovo Companion Norton™ Internet Security
Graphics	Intel HD graphics in Intel Atom SoC, supports 1080p video out via mini-HDMI™ connector, HDCP-compliant	(30 days of virus definitions) ThinkVantage System Update
Display	8.3 " (210.8mm) WUXGA (1920x1200) TFT color , smudgeless display with infinity AGC Dragontrail™ Glass, LED backlight, 370 nits, 16:10 aspect ratio, 500:1 contrast ratio, IPS, WideView (160° viewing), MultiTouch screen supports 10-finger gesture	AccuWeather Evernote® Nitro PDF Amazon Kindle
Tablet pen	None	
Camera Video capture	Front camera: 2.0-megapixel, fixed focus Rear camera: 8.0-megapixel, auto focus, flash LED 1080p video capture	
Audio support	Realtek® ALC5672 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, combo audio/microphone jack	
Media capable	Audio formats: MP3, AAC, AAC+, AC3, PCM, WMA, WAV, AVI Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Motion-JPG	
Control buttons	Windows button, Power button, volume control button, reset switch	
Light sensor G-sensor/ eCompass Gyroscope	Ambient Light Sensor, ISL29023 3D accelerometer and 3D magnetometer module, AK8963C InvenSense MPU6050	
Platform Ports	Intel Atom Z3770 SoC (System on Chip) platform One micro-USB 3.0, one micro-HDMI, headphone/microphone combo jack	
WLAN⁴ WWAN Carrier GNSS Bluetooth™ NFC	11a/b/g/n ²⁸ wireless, ThinkPad 11a/b/g/n, 1x1, WiFi + Bluetooth combo chip None None None Bluetooth 4.0 wireless, integrated in WiFi + Bluetooth combo chip None	
Dimensions ³ Weight ² Case color Case material	8.83" x 5.20" x 0.35"; 224.3mm x 132.0mm x 8.8mm WiFi only: from 0.95 lb (0.43kg) Black ALuminium top cover, Edge Profile Rubber	10-watt AC adapter (via micro-USB) GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷
Battery - type Battery - life ¹⁰	Lithium Polymer, 20.5Whr up to 17 days (standby);	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Limited Warranty	up to 8.0 hr (web browsing with flash) 2 1-year - depot repair service / service upgrades22 available	For Lenovo service ²² upgrade options, please go to S-Tablet sheet

ThinkPad Twist S230u





Lenovo® ThinkPad Twist S230u (Tent Mode)



Lenovo ThinkPad Twist S230u (Tablet Mode)



Lenovo ThinkPad Twist S230u (Notebook Mode)



Lenovo ThinkPad Twist S230u (Stand Mode)



Lenovo ThinkPad Twist S230u



Lenovo ThinkPad Twist S230u

ThinkPad Twist S230u (20C4) - Ultrabook

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB [®] rpm	PCle P Mini Card WLAN	Cle Mini C WWAN/ mSATA	ard SIM card	Top color	Blue- tooth		Preload	Ann date (mm/yy)
20C4-29U	i7-3667U	8GB	12.5" HD <i>Multi</i>	720p	128G SSD	Intel 2230 ²⁸	None	None	Black	ВТ	8	Win8 Pro64	06/13
20C4-28U	i7-3667U	8GB	12.5" HD <i>Multi</i>	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	06/13
20C4-27U	i7-3667U	8GB	12.5" HD <i>Multi</i>	720p	500G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 Pro64	06/13
20C4-26U	i7-3667U	8GB	12.5" HD <i>Multi</i>	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	06/13
20C4-25U	i5-3427U	4GB	12.5" HD <i>Multi</i>	720p	128G SSD	Intel 2230	None	None	Black	BT	8	Win8 Pro64	06/13
20C4-24U	i5-3427U	4GB	12.5" HD <i>Multi</i>	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	06/13
20C4-23U	i5-3427U	4GB	12.5" HD <i>Multi</i>	720p	500G 7200	Intel 2230	24GB	None	Black	BT	8	Win8 Pro64	06/13
20C4-22U	i5-3427U	4GB	12.5" HD <i>Multi</i>	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	06/13

Positioning Processor	Convertible tablet 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 ¹⁴ (only some listed)
Memory	4GB or 8GB / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets	Lenovo SupportLenovo Companion
Optical SATA disk	None 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	 Lenovo Cloud Storage Password Manager Fingerprint Software (fingerprint models)
mSATA™ SSD	Some: 24GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot	 ThinkVantage System Update Norton™ Internet Security
Widescreen display Multi-touch	12.5" (317.5mm) HD (1366x768) TFT color, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, rotate and swivel hinge Bottom buttons: volume up / down and Windows buttons Side buttons: power and auto rotation button buttons: Projected Capacitive Tauch (PCT) technology, supports 5 point multi-touch	(30 days of virus definitions) • Microsoft Office preloaded; purchase a product key to activate • Skype™
Camera	Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	
Graphics	Intel HD Graphics 4000 in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (Mini DisplayPort)@60Hz; 1920x1200 (Mini HDMI)@60Hz	
Keyboard TrackPoint® Touchpad Light sensor ThinkLight™	6-row, 83-key, spill-resistant, multimedia Fn keys TrackPoint pointing device UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch Ambient light sensor None	
Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	8-cell: 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm 8-cell: from 3.50 lb (1.60kg) Display cover: Magnesium + Polyphenylene sulfide (PPS); Bottom: Magnesium + PPS Integrated Li-Polymer 8-cell, HW Authentication None 8-cell (42.4Whr): up to 6.0 hr	
Chipset Multicard Reader ExpressCard Smart Card Read Ports	Mobile Intel HM77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None None Two USB 3.0, external monitor (mini-HDMI, mini-DisplayPort), 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, Wi-Fi + Bluetooth combo adapter, 2x2 Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2	
PCIe WWAN SIM card	None None	Commonto Thinkly and a selection of
Modem	None	Supports ThinkVantage® technologies
Bluetooth™ Ethernet Intel AMT Audio support Security Security chip	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1 None High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / 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	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		For Lenovo ²² service upgrade options, please go to S-EDGE sheet

ThinkPad Twist S230u (3347) - TopSeller (Ultrabook)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB [®] rpm	PCIe PC Mini Card WLAN	Cle Mini C WWAN/ mSATA	ard SIM card	Top color	Blue- tooth		Preload	Ann date (mm/yy)
3347-2YU	i3-3217U	4GB	12.5" HD <i>Multi</i>	720p	320G 7200	TP 11a/b/g/n ²⁸	24GB	None	Black	BT	8	Win8 Pro64	10/12
3347-2RU	i7-3517U	8GB	12.5" HD <i>Multi</i>	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	10/12
3347-2QU	i5-3317U	4GB	12.5" HD <i>Multi</i>	720p	128G SSD	TP 11a/b/g/n	None	None	Black	BT	8	Win8 Pro64	10/12
3347-2NU	i3-3217U	4GB	12.5" HD <i>Multi</i>	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	10/12
3347-2HU	i5-3317U	4GB	12.5" HD <i>Multi</i>	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	10/12
3347-2GU	i7-3517U	8GB	12.5" HD <i>Multi</i>	720p	500G 7200	TP 11a/b/g/n	24GB	None	Black	BT	8	Win8 Pro64	10/12

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
 A depot repair service 1-year limited warranty

Positioning Processor	Convertible tablet ultrabook™; one spindle Intel® Core™ i3-3217U processor (2 cores, 1.80GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology	Preloaded operating system ²⁰ - Windows® 8 Pro 64-bit Preloaded applications ¹⁴ (only some
	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 i7-3517U processor (2 cores, 1.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology	listed) Lenovo Support Lenovo Companion Lenovo Cloud Storage
Memory	2GB, 4GB or 8GB / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets	Password Manager Fingerprint Software (fingerprint)
Optical SATA disk	None 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	models) • ThinkVantage System Update • Norton™ Internet Security (30 days of virus definitions)
mSATA™ SSD	Some: 24GB mSATA Solid State Drive (SSD), via PCle Mini Card slot	Microsoft Office preloaded; purchase a product key to activate
Widescreen display	12.5" (317.5mm) HD (1366x768) TFT color, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, rotate and swivel hinge Bottom buttons: volume up / down and Windows buttons Side buttons: power and auto rotation button button buttons: power and auto rotation button buttons:	Skype™
Camera	Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	
Graphics	Intel HD Graphics 4000 in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (Mini DisplayPort)@60Hz; 1920x1200 (Mini HDMI)@60Hz	
Keyboard TrackPoint® Touchpad Light sensor ThinkLight™	6-row, 83-key, spill-resistant, multimedia Fn keys TrackPoint pointing device UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch Ambient light sensor None	
Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	8-cell: 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm 8-cell: from 3.50 lb (1.60kg) Display cover: Magnesium + Polyphenylene sulfide (PPS); Bottom: Magnesium + PPS Integrated Li-Polymer 8-cell, HW Authentication None 8-cell (42.4Whr): up to 6.0 hr	
Chipset Multicard Reader ExpressCard Smart Card Read Ports	Mobile Intel HM77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None None Two USB 3.0, external monitor (mini-HDMI, 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, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2 None	
SIM card	None	Supports ThinkVantage® technologies
Modem Bluetooth™ Ethernet Intel AMT Audio support	None Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1 None High Definition (HD) Audio, Realtek ALC3202 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, bard disk password, supervisors 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
Security Security chip Fingerprint reader	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None	during the warranty period ¹² For Lenovo ²² service upgrade
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	options, please go to S-EDGE sheet

ThinkPad Twist S230u (3347) - TopSeller (Ultrabook) - II

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Type-model	Processor	Memory	Wideso		Camera	Disk SATA GB⁵rpm	PCIe Mini Card WLAN			Top color	Blue- tooth		Preload	Ann date (mm/yy)
3347-7EU	i5-3427U	4GB	12.5" HD		720p	500G 7200	TP 11a/b/g			Black	ВТ	8	Win8 Pro64	02/13
3347-7DU	i5-3427U	4GB	12.5" HD		720p	500G 7200 500G 7200	Intel 2230	24GE		Black	BT	8	Win8 Pro64	
3347-7CU	i5-3427U	4GB	12.5" HD		720p	128G SSD	Intel 2230	None	None	Black	BT	8	Win8 Pro64	02/13
3347-7BU	i5-3427U	4GB	12.5" HD		720p	128G SSD	TP 11a/b/g		None	Black	BT	8	Win8 Pro64	
3347-78U	i5-3337U	4GB	12.5" HD		720p	500G 7200	Intel 2230	24GE		Black	BT	8	Win8 Pro64	02/13
3347-77U	i7-3537U	8GB	12.5" HD		720p	128G SSD	TP 11a/b/g		None	Black	BT	8	Win8 Pro64	
3347-76U	i5-3337U	4GB	12.5" HD		720p	128G SSD	TP 11a/b/g		None	Black	BT	8	Win8 Pro64	02/13
3347-6WU	i3-3227U	4GB	12.5" HD		720p	500G 7200	TP 11a/b/g			Black	BT	8	Win8 Pro64	02/13
3347-6VU	i5-3337U	4GB	12.5" HD		720p	500G 7200	TP 11a/b/g			Black	BT	8	Win8 64	02/13
3347-6UU	i5-3337U	4GB	12.5" HD		720p	500G 7200	TP 11a/b/g	_		Black	BT	8	Win8 Pro64	
3347-6LU	i7-3537U	8GB	12.5" HD		720p	500G 7200	TP 11a/b/g			Black	BT	8	Win8 Pro64	02/13
3347-8NU	i3-3227U	4GB	12.5" HD		720p	500G 7200	TP 11a/b/g			Black	BT	8	Win8 64	07/13
3347-8MU	i3-3227U	4GB	12.5" HD		720p	320G 7200	TP 11a/b/g			Black	BT	8	Win8 64	07/13
3347-8LU	i3-3227U	4GB	12.5" HD		720p	320G 7200	TP 11a/b/g	_		Black	BT	8	Win8 Pro64	07/13
Positioning			blet ultrabo										rating syster	
Processor	Intel® DDR(Intel DDR(Intel DDR(Intel	Core™ i3 3 memory Core i5-3 3 memory Core i5-3 3 memory Core i7-3	3-3227U pr / controller 3337U prod / controller 3427U prod / controller 3537U prod	ocess (up to cessor (up to cessor (up to	or (2 core 1600MH: r (2 cores 1600MH: r (2 cores 1600MH: r (2 cores	es, 1.90GHz, 3 z), HT technolo i, 1.80GHz, 3N z), Intel Turbo i, 1.80GHz, 3N z), Intel Turbo i, 2.00GHz, 4N z), Intel Turbo	ogy IB Cache), Ir Boost 2.0 (2.1 IB Cache), Ir Boost 2.0 (2.1 IB Cache), Ir	ntel HD Gra 70GHz), HT ntel HD Gra 80GHz), HT ntel HD Gra	phics 4000, technology phics 4000, technology phics 4000,	, - 3 - 3 Pre liste • L • L	Some:	Windo Windo d app Suppo Comp Cloud	ows 8 64-bit ows 8 Pro 64- lications ¹⁴ (or ort panion I Storage	bit
Memory	4GB		PC3-10600			R3 / soldered to			technology	T i	Passwo Fingerpi nodels)	rint So	nager oftware (finge	rprint
Optical	None									• 1	⁻hinkVá	ntage	System Upd	ate
SÄTA disk	Some Some All:	e: Solid S e: Hard D remova)isk Drive / able, upgra	SATA dable	3.0Gb/s,	.0Gb/s, 2.5" w 2.5" wide, 7mr	n high, Active	Protection	System™	• 1	30 days ∕icroso	of vi	met Security rus definitions ce preloaded; roduct key to a	´
mSATA™ SSE Widescreen			m) HD (13 6			SSD), via PCI	Willi Card S	ioi		 • 5	Skype™	c a pi	oddot koy to t	Jouvale
display Multi-touch Camera	smud LED I <i>Botto</i> <i>Side</i> Proje HD72	geless ar backlight, m buttons: buttons: cted Capa 20p resolu	nd anti-refle 350 nits, 1 s: volume u power au acitive Toud ution, wide	ective (6:9 as up / do nd aut ch (PC view a	display wispect ration own and Voor orotation CT) technotangle, low	th Corning® G , 500:1 contra /indows buttor	st ratio, IPS, i is 5-point mult	i-touch		e				
Graphics	suppo suppo <i>Maxii</i>	orts exter orts dual i <i>num exte</i>	independer	nonito nt disp <i>tion: 2</i>	r via Mini olay; 2560x160	HDMI and Mir 0 (Mini Display								
Keyboard TrackPoint® Touchpad Light sensor ThinkLight™	Track Ultral Ambi None	Point poir Nav™, but ent light s	ensor	e ichpad	d below ke	eyboard, Tap Z		ouch						
Dimensions ³ Weight ² Case material Battery - type Extended Bat Battery - life ¹⁰	8-celi I Displa Integi tery None	: from 3. ay cover: ated Li-P	.50 lb (1.60)kg) um + F ell, HV	Polypheny	236mm x 20m lene sulfide (P ication		ottom: Magı	nesium + PF	PS				
Chipset Multicard Rea ExpressCard Smart Card R Ports	Mobi der 4-in-1 None lead None	le Intel H reader (M77 Expre SD, SDHC,	ess CI SDX	C, MMC)	/II, mini-Displa	yPort), etheri	net (RJ-45)						
PCIe Mini Cai PCIe WLAN ⁴	Some Some	e: 11a/b/ç Wi-Fi + e: 11b/g/r Wi-Fi +	Bluetooth	lalf Mi comb If Mini	ni Card, T o adapter Card, Inte	el Centrino® W		0,						
PCIe WWAN	None													
SIM card Modem	None None									Su	oports ⁻	Think\	√antage® tech	nologies
Bluetooth™ Ethernet Intel AMT Audio support	Bluet Gigat None t High	ooth 4.0 voit Networ Definition	rk Connect (HD) Audi	ion Re o, Rea	ealtek® R1 altek ALC	N PCIe Half N L8111F, PHY, 3202 codec / e Theater® v4 (PCle x1			EP EN GR RO	EENGI HS-cor	Gold r STAR JARD npliar	ating ® 5.0-complia o certified nt	
Security Security chip Fingerprint re	volum Powe Truste	ne up, dov r-on pass ed Platfor	wn, mute b	uttons I disk p	dual arra bassword,	ay microphone, supervisor pa	combo audio			24 C	hour x luring tl	7 day ne wa	arranty Servic 18 toll-free sup rranty period ¹ ervice upgrade	port 2
Limited warra	nty ¹² 1-yea	r - depot		ice / s	ervice up	grades ²² availa	ble			opt	tions, p	ease	go to S-EDGI	E sheet
See footnotes	tor more de	tailed info	rmation											© Lenovo

ThinkPad Twist S230u (3347) - TopSeller

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB [®] rpm	PCle Po Mini Card WLAN	Cle Mini C WWAN/ mSATA	ard SIM card	Top color	Blue- tooth		Preload	Ann date (mm/yy)
3347-2PU	i3-2365M	2GB	12.5" HD Multi	720p	500G 7200	TP 11a/b/g/n ²⁸	16GB	None	Black	BT	8	Win8 Pro64	10/12
3347-79U	i3-2375M	2GB	12.5" HD <i>Multi</i>	720p	320G 7200	TP 11a/b/g/n	16GB	None	Black	BT	8	Win8 Pro64	02/13
3347-84U	i3-2375M	2GB	12.5" HD <i>Multi</i>	720p	500G 7200	TP 11a/b/g/n	16GB	None	Black	BT	8	Win8 Pro64	05/13
3347-83U	i3-2375M	2GB	12.5" HD <i>Multi</i>	720p	320G 7200	TP 11a/b/g/n	16GB	None	Black	BT	8	Win8 64	05/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program A depot repair service 1-year limited warranty

Positioning Processor	Convertible tablet; one spindle Intel® Core™ i3-2365M processor (2 cores, 1.40GHz, 3MB Cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology Intel Core i3-2375M processor (2 cores, 1.50GHz, 3MB Cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology	Preloaded operating system ²⁰ - Some: Windows® 8 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications ¹⁴ (only some listed)
Memory	2GB / PC3-10600 1333MHz DDR3 / soldered to systemboard, no SO-DIMM sockets	Leńovo Support
Optical SATA disk	None Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™, removable, upgradable	Lenovo Companion Lenovo Cloud Storage Password Manager Companion
mSATA™ SSD	16GB mSÁTÁ Šolid State Drive (SSD), via PCle Mini Card slot	Fingerprint Software (fingerprint models)
Widescreen display Multi-touch	12.5" (317.5mm) HD (1366x768) TFT color, smudgeless and anti-reflective display with Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, rotate and swivel hinge Bottom buttons: volume up / down and Windows buttons Side buttons: power and auto rotation buttons Projected Capacitive Touch (PCT) technology, supports 5-point multi-touch	ThinkVantage System Update Norton™ Internet Security (30 days of virus definitions) Microsoft Office preloaded; purchase a product key to activate Skype™
Camera	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Chype
Graphics	Intel HD Graphics 3000 in processor, supports external digital monitor via Mini HDMI and Mini DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (Mini DisplayPort)@60Hz; 1920x1200 (Mini HDMI)@60Hz	
Keyboard TrackPoint® Touchpad Light sensor ThinkLight™	6-row, 83-key, spill-resistant, multimedia Fn keys TrackPoint pointing device UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch Ambient light sensor None	
Dimensions ³ Weight ² Case material Battery - type Extended Battery Battery - life ¹⁰	8-cell: 12.32" x 9.29" x 0.79"; 313mm x 236mm x 20mm 8-cell: from 3.50 lb (1.60kg) Display cover: Magnesium + Polyphenylene sulfide (PPS); Bottom: Magnesium + PPS Integrated Li-Polymer 8-cell, HW Authentication None 8-cell (42.4Whr): up to 6.0 hr	
Chipset Multicard Reader ExpressCard Smart Card Read Ports	Mobile Intel HM77 Express Chipset 4-in-1 reader (SD, SDHC, SDXC, MMC) None	
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, Wi-Fi + Bluetooth combo adapter, 2x2 None	
SIM card Modem	None None	Supports ThinkVantage® technologies
Bluetooth™ Ethernet Intel AMT Audio support	Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card Gigabit Network Connection Realtek® RTL8111F, PHY, PCIe x1 None High Definition (HD) Audio, Realtek ALC3202 codec /	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant
Security Security chip	stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / 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	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Fingerprint reader Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	For Lenovo 22 service upgrade options, please go to S-EDGE sheet

hinkPad Twist \$230u Accessories

ThinkPad Twist S230u Accessories						
Memory None			Power adapters ThinkPad 65W AC Adapter ⁴⁵ 45 Only compatible with the integrated gra	40Y7696	ann	01/05/06
Storage and removable storage			ThinkPad 90W AC Adapter		ann	09/20/05
ThinkPad 16GB mSATA Solid State Cache Drive USB 2.0 Portable 500GB Hard Disk		ann 12/11/12 ann 05/26/09	More information at www.lenovopowertip	s.com		
USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive USB 3.0 Secure 1TB Hard Drive	0A65619 0A65616	ann 11/29/11 ann 11/29/11 ann 08/28/12	Carrying Cases Up to 13.3" widescreen models: ThinkPad Ultraportable Case	41U5062	ann (05/13/08
ThinkPad Expansion			Up to 15.6" widescreen models:			
None			Lenovo Performance BackPack			05/01/07
Keyboard			ThinkPad Business Topload Case ThinkPad Business Backpack	43R2476 43R2482		
TrackPoint Cap Collection	73P2698	ann 12/16/03	ThinkPad Deluxe Expander Case	43R2478		
Ultraslim Plus Wireless Keyboard and Mouse ⁵² USB Numeric Keypad		ann 04/05/11 ann 05/01/00	ThinkPad Executive Leather Case	43R2480		
Preferred Pro USB Keyboard	73P5220	ann 06/21/05	Lenovo Sport Backpack - Red Lenovo Sport Slimcase - Red			02/28/12 02/28/12
Enhanced Performance USB Keyboard ThinkPad USB Keyboard with TrackPoint		ann 03/23/04 ann 08/18/09	Lenovo Sport Messenger - Red	0A33898		
Lenovo USB Fingerprint Keyboard		ann 02/22/05	More information at www.lenovo.com/su	oport/cases		
Lenovo USB Smartcard Keyboard	51J0155	ann 03/24/09		•		
Mouse ThinkPad Bluetooth Laser Mouse Lenovo Optical Mouse (USB) Lenovo Laser Mouse (USB) ThinkPad USB Laser Mouse	06P4069 41U3074	ann 06/26/12 ann 05/21/03 ann 01/23/07 ann 12/15/09		3778HB2 2580AF1 3783HB2	ann ann ann	09/13/11 08/02/11 08/02/11 08/02/11 08/02/11
Lenovo ScrollPoint® Mouse (USB, Optical)	31P7405	ann 08/27/02	More information at www.lenovo.com/suj		aiiii	00/02/11
ThinkPad Travel Mouse (USB, Optical)		ann 06/04/02		opor umonitors		
Lenovo Wireless Laser Mouse ⁵² Security Lenovo Wireless Laser Mouse ⁵² Wireless via 2.4GHz technology using a micro Security	-size USB		Monitor Accessories ⁴⁶ Lenovo Mini DisplayPort to VGA Adapter Lenovo Mini DisplayPort to SL-DVI-D Adapter Lenovo Mini DisplayPort to DisplayPort Ca	oter 0B47090	ann	05/17/11 06/12/12 07/24/12
Kensington® MicroSaver® Cable Lock		ann 12/29/03	Kensington MicroSaver Cable Lock	73P2582	ann	12/29/03
Kensington Twin Head Cable Lock Lenovo Security Cable Lock		ann 09/30/08 ann 08/24/10	Kensington Twin Head Cable Lock			09/30/08
USB Gemplus GemPC Smart Card Reader		ann 02/21/06	Lenovo Security Cable Lock 46 Compatible on selected Lenovo and Th			08/24/10
Multimedia			More information at www.lenovo.com/support/monitoraccessories			
ThinkPad In-Ear Headphones with mic Lenovo Mini Speakers M220		ann 01/07/10 ann 01/07/10	For more information on accessories: www.lenovo.com/accessories Purchase Lenovo accessories			
USB 2.0 Lenovo Modem	43R1814	ann 02/26/08	www.lenovo.com/support/accessories			
			Product specifications on Lenovo Supp	port		

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

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