ThinkPad W530











Lenovo ThinkPad W530



Lenovo ThinkPad W530 with four displays



Lenovo ThinkPad W530

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

Type-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		Intel vPro	Preload	Ann Date (mm/yy)
2438-4GG	i7-3720QM	4GBx1	15.6" HD+	K1000M	1x500G 7200	No	None	Intel 6205 ²⁸	WWAN upg	None	6	vPro	Win7 Pro64	10/12
2438-4FG	i7-3820QM	4GBx1	15.6" FHD	K1000M	1x500G 7200	No	None	Intel 6205	WWAN upg	None	6	vPro	Win7 Pro64	10/12
2438-4EG	i7-3720QM	4GBx1	15.6" HD	K1000M	1x320G 7200	No	None	Intel 6205	WWAN upg	None	6	vPro	Win7 Pro64	10/12

- Small and medium business (SMB) model(s), part of the WE 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™ i7-3720QM 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	Preloaded operating system ²⁰ - Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
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	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: 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® Windows Live™ Essentials
Widescreen display	Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio 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)
Color calibration Camera	None HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	Windows 8 models Lenovo Support Lenovo Companion
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 QuickLaunch AccuWeather PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models
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 Solution Center Password Manager ThinkVantage System Update Fingerprint Software (fingerprint
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	models) • Lenovo Cloud Storage by SugarSync • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions)
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)	
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN SIM card	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None	
Modem Bluetooth™	None Bluetooth 4.0 wireless	Supports ThinkVantage® technologies
Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	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 Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	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
Limited warranty ¹²	2 3-years/1-yr battery - depot repair service / service upgrades ²² available	during the warranty period ¹²

ThinkPad W530 2441 (Optimus)

Type-model	Processor	Memory	Wide- screen display	Discrete graphics	Disk SATA GB [®] rpm	RAID	SATA optical		Mini Card C	PCle Mini ard WWAN mSATA	/ print	tery	Intel) · /	Ann Date (mm/yy)
2441-3TG	i7-3720QM	4GBx1	15.6" FHD	K1000M	2x500G 7200	1	None	None	Intel 62052	8 upg	Finger	9	vPro	G	Pro 64	06/12
2441-3SG	i7-3720QM	4GBx1	15.6" FHD	K1000M	2x500G 7200	0	None	None	Intel 6205	upg	Finger	9	vPro	G	Pro 64	06/12
2441-23G	i7-3820QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No	DVD±RW	None	Intel 6205	upg	Finger	9	vPro	G	Pro 64	06/12
2441-22G	i7-3720QM	4GBx1	15.6" HD+	K1000M	1x320G 7200	No	DVD±RW	None	Intel 6205	upg	Finger	9	vPro	G	Pro 64	06/12
2441-5RG	i7-3740QM	4GBx1	15.6" HD+	K1000M	1x320G 7200	No	DVD ±RW	None	Intel 6205	upg	Finger	9	vPro	G	Pro 64	02/13
2441-5QG	i7-3840QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No	DVD±RW	None	Intel 6205	upg	Finger	9	vPro	G	Pro 64	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),	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64
	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	Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™ • Password Manager Preloaded applications¹⁴ (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	Lenovo® Solution Center Lenovo Message Center Plus ThinkVantage Product Recovery
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	Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage
mSATA™ SSD	None	by SugarSync
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	Lenovo SimpleTap Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security 2012
Color calibration Camera	None HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	(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	 Skype™ for Windows Evernote®
	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)	Intel Small Business Advantage RapidBoot HDD Accelerator Symantec™ VIP Windows Live™ Essentials Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
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) Corel DVD MovieFactory® Lenovo Edition (DVD±RW) X-Rite® Pantone® Color Calibrator
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 5.76 lb (2.62kg); 9-cell: starting at 6.19 lb (2.81kg) Display cover: Carbon-fiber / Glass-fiber hybrid; Glass-fiber reinforced plastic without paint	(color calibration 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 7.7 hr; 9-cell (94Whr): up to 12.8 hr; 9-cell plus 9-cell Slice battery (94Whr): up to 25.6 hr	
Chipset ExpressCard Smart Card Read	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), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
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	
SIM card Modem	None None	Supports ThinkVantage® technologies
Bluetooth™ Ethernet Intel AMT Audio support	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 /	170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating
Security Security chip	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	ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service ¹⁷ 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 W530 2441 (Optimus) - Windows 8

Type-model	Processor	Memory	Wide- screen display	Discrete graphics	Disk SATA GB [®] rpm	Backlii key- RAID board	Mini Card	PCIe Mini Card WWAN/ mSATA	Finger print reader	tery	Intel		,	Ann Date (mm/yy)
2441-45G	i7-3820QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No None	Intel 6205 ²⁸	WWAN upg	Finger	9	vPro	G	Win8 Pro64	10/12
2441-46G	i7-3720QM	4GBx1	15.6" HD+	K1000M	1x500G 7200	No None	Intel 6205	WWAN upg	Finger	9	vPro	G	Win8 Pro64	10/12

- 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 i7-3820QM 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	Preloaded operating system ²⁰ - Windows® 8 Pro 64-bit Preloaded applications ⁵ (only some listed) - Windows 7 models
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	Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power 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 None	Lenovo SimpleTap Adobe® Reader® Windows Live™ Essentials Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition
Widescreen	Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight,	. (DVD±RW) • Corel DVD MovieFactory® Lenovo
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, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut	Edition (DVD±RW) - Windows 8 models • Lenovo Support
Color calibration Camera	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	Lenovo Companion
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 QuickLaunch AccuWeather PC Device Stage Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center
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	Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models)
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	Lenovo Cloud Storage by SugarSync Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions)
PCIe Mini Card PCIe WLAN ⁴	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), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard) Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2	
PCIe WWAN SIM card	Wireless WAN upgradable None	Supports Think/antago® toohnologies
Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	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,	Supports ThinkVantage® technologies 170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
	Power On Authentication, supports the security chip 2 3-years/1-yr battery - depot repair service / service upgrades ²² available	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

ThinkPad W530 2447 (Optimus) - Onsite

	Med-	Det 2111/2					
	screen Discrete SATA SATA key- Mini Card WWAN/ ssor Memory display graphics GB ^s rpm RAID optical board WLAN mSATA SIM card R	Smart Bat- Global (G) Card Color tery Intel Intel GMP leader calib cells AMT vPro (P) Preload					
2447-43G i7-382 2447-3TG i7-372 2447-3SG i7-372 2447-2EG i7-361 2447-29G i7-372 2447-23G i7-382	ROQM 4GBx2 FHD K2000M 1x500G 7200 No DVD±RW Backlit 6300 upg None None	Imart X-Rite 9 iAMT vPro Pro 64 Ione X-Rite 9 iAMT vPro Pro 64 Ione None 9 iAMT vPro G P Pro 64 Ione None 9 None None Pro 64 Ione None 9 iAMT vPro Pro 64 Ione None 9 iAMT vPro G P Pro 64 Ione None 9 iAMT vPro G P Pro 64 Ione None 9 iAMT vPro G P Pro 64					
Positioning Processor	Mobile workstation; two spindles Intel® Core™ i7-3610QM processor (4 cores, 2.30GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), 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 i7-3820QM 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	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: 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 Some: DVD burner, 12.7mm Ultrabay Enhanced, removable	Preloaded applications ¹⁴ (only some listed) • Lenovo® Solution Center • Lenovo Message Center Plus					
Optical Ultrabay SATA disk mSATA™ SSD	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	ThinkVantage Product Recovery Access Connections™ Fingerprint Software (fingerprint models) ThinkVantage System Update					
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	ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Microsoft® Office preloaded;					
Color calibration Camera	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						
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)	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo					
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						
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): up to 25.6 hr	Edition (DVD±RW) • X-Rite® Pantone® Color Calibrator (color calibration models)					
	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), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)						
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, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA+, GPS						
SIM card Modem	Some: Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required None						
Bluetooth™ Ethernet	Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	Supports ThinkVantage® technologies					
0 .	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 Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant					
	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²					
See footnotes for n	nore detailed information	© Lenovo					

ThinkPad W530 2447 (Optimus) - Onsite - II

Type-model	Processor	Memory	Wide- screen display	Discrete graphics	Disk SATA GB [®] rpm	RAID		PCIe Mini Card WLAN			Smart Card Reader	Bat- Color tery Intel calib cells vPro	
2447-42G	i7-3720QM	4GBx2	15.6" FHD	K1000M	1x180G SSD	No	Backlit	6300 ²⁸	WWAN upg	None	Smart	X-Rite 9 vPro	Pro 64 07/12
2447-3ZG	i7-3720QM	4GBx2	15.6" FHD	K1000M	1x128G SSD	No	None	620528	Ericsson	Lenovo	Smart	None 9 vPro	Pro 64 07/12
2447-2BG	i7-3720QM	4GBx1	15.6" HD+	K1000M	1x500G 7200	No	Backlit	6300	16GB mSATA	None	Smart	X-Rite 9 vPro	Pro 64 07/12
2447-2AG	i7-3820QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No	Backlit	6300	16GB mSATA	None	None	X-Rite 9 vPro	Pro 64 07/12
2447-48G	i7-3720QM	4GBx1	15.6" HD+	K1000M	1x500G 7200	No	Backlit	6300	32GB mSATA	None	Smart	X-Rite 9 vPro	Pro 64 07/12
2447-47G	i7-3820QM	4GBx2	15.6" FHD	K2000M	1x500G 7200	No	Backlit	6300	32GB mSATA	None	None	X-Rite 9 vPro	Pro 64 07/12

• 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 i7-3820QM processor (4 cores, 2.70GHz, 8MB cache), Intel HD Graphics 4000,	Preloaded operating system ²⁰ Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.70GHz), HT technology dual-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	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 Some: mSATA Solid State Drive (SSD), via PCIe Mini Card slot	listed) • Lenovo® Solution Center • Lenovo Message Center Plus • ThinkVantage Product Recovery • Access Connections™ • Fingerprint Software (fingerprint models)
Widescreen display Color calibration Camera	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: 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	 ThinkVantage System Update ThinkVantage Power Manager Lenovo Cloud Storage by SugarSync Lenovo SimpleTap Microsoft® Office preloaded;
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)	purchase a product key to activate 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 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 5.76 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): up to 25.6 hr	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) • X-Rite® Pantone® Color Calibrator (color calibration models)
	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), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	
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, Ericsson® H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA+, GPS	
SIM card Modem Bluetooth™	Some: Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required None Bluetooth 4.0 wireless	O
Ethernet Intel AMT Audio support Security Security chip	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 170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant
Limited warranty ¹²	² 3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an addtional next business day for service dispatch / service upgrades available	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

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

		Wide- screen	Discrete	Disk SATA		Backlit key-	PCle Mini Card		Card	tery	Intel	GMP`	,	Ann Date
Type-model Process	or Memory	display	graphics	GB ⁸ rpm	RAID	board	WLAN	mSATA	Reader	cells	vPro	(P)	Preload	(mm/yy)
2447-45G i7-37200	M 4GBx1	15.6" HD+	K1000M	1x500G 7200	No	None	Intel 620528	³ WWAN upg	None	9	vPro	GΡ	Win8 Pro64	4 10/12
2447-46G i7-38200	M 4GBx2	15.6" FHD	K2000M	1x500G 7200	No	None	Intel 6205	WWAN upg	None	9	vPro	GP1	Win8 Pro64	4 10/12
2447-4JG i7-37200	M 4GBx1	15.6" HD+	K1000M	1x500G 7200	No	Backlit	Intel 630028	32GB mSATA	Smart	9	vPro	1	Win7 Pro64	4 10/12
2447-4HG i7-37200	M 4GBx2	15.6" FHD	K2000M	1x240G FDE SSD	No	Backlit	Intel 6300	WWAN upg	Smart	9	vPro	١	Win7 Pro64	4 10/12
2447-4GG i7-38200	M 4GBx2	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Intel 6300	32GB mSATA	None	9	vPro	1	Win7 Pro64	4 10/12
2447-4BG i7-37200	M 4GBx1	15.6" HD+	K1000M	1x500G 7200	No	Backlit	Intel 6300	32GB mSATA	Smart	9	vPro	١	Win8 Pro64	4 10/12
2447-4AG i7-37200	M 4GBx2	15.6" FHD	K2000M	1x240G FDE SSD	No	Backlit	Intel 6300	WWAN upg	Smart	9	vPro	١	Win8 Pro64	4 10/12
2447-49G i7-38200	M 4GBx2	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Intel 6300	32GB mSATA	None	9	vPro	1	Win8 Pro64	4 10/12

- 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

Desitionis :	Adala ila sanda da la iran da sanda di sanda sanda di sa	
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	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: 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	Preloaded applications ⁵ (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 Lenovo SimpleTap
mSATA™ SSD	Some: mSATA Solid State Drive (SSD), via PCIe Mini Card slot	Adobe® Reader® Windows LiveTM Feeentials
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	Windows Live™ Essentials Corel® WinDVD® (DVD±RW) Corel Burn.Now™ Lenovo Edition (DVD±RW)
Color calibration Camera	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	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 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)	- Windows 8 models - Lenovo Support - Lenovo Companion - Lenovo QuickLaunch - AccuWeather - 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 Microsoft® Office preloaded;
	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), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	purchase a product key to activate Norton™ Internet Security (30 days of virus definitions)
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN SIM card Modem	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 None None	
Bluetooth™ Ethernet	Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	Supports ThinkVantage® technologies
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	170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame)
Security Security chip Fingerprint reade	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
Limited warranty ¹²	² 3-years/1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

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

Type-model Proce	ssor Memory	Wide- screen display	Discrete graphics	Disk SATA GB ⁸ rpm	RAID	Backlit key-	PCIe Mini Card WLAN		tery	Power Adapter (watt)	Intel AMT		lobal (GMP (P)	G) Preload	Ann Date	
2447-4MG i5-332 2447-4LG i5-332 2447-4EG i7-363 2447-4EG i7-363 2447-4CG i5-332 2447-5KG i7-384 2447-5JG i7-384 2447-5HG i7-384 2447-5GG i7-384	20M 4GBx1 20M 4GBx1 30QM 4GBx1 30QM 4GBx1 30QM 4GBx1 20M 4GBx1 40QM 4GBx1 40QM 4GBx1 40QM 4GBx1	15.6" HD+ 15.6" FHD 15.6" HD+ 15.6" HD+ 15.6" HD+ 15.6" FHD 15.6" FHD 15.6" FHD	K1000M K1000M K1000M K1000M K1000M K1000M K2000M K1000M K2000M	1x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200	No No No No No No No No	Backlit Backlit Backlit Backlit Backlit None None	Intel 6300 ²⁸ Intel 6300 Intel 6300 Intel 6300 Intel 6300	None None None None None	9 9 9 9 9 9 9	135W 135W 170W 170W 135W 135W 170W 170W 170W	iAMT iAMT None None iAMT iAMT iAMT iAMT	vPro vPro No	G P G P G P	Win7 Pro64 Win7 Pro64 Win7 Pro64 Win8 Pro64 Win8 Pro64 Win8 Pro64 Win8 Pro64 Win8 Pro64 Win8 Pro64	10/12 10/12 10/12 10/12 10/12 10/12 05/13 05/13	
2447-5FG i7-374 Positioning Processor	Mobile works Intel® Core™ DDR3 memo Intel Core i7 DDR3 memo	15.6" HD+ station; two s 15-3320M p ry controller -3630QM pr ry controller -3740QM pr ry controller -3840QM pr ry controller	k1000M pindles processor (up to 160 ocessor ((up to 160 ocessor ((up to 160 ocessor ((up to 160	1x500G 7200 (2 cores, 2.60 00MHz), Intel T 4 cores, 2.400 00MHz), Intel T 4 cores, 2.70 00MHz), Intel T 4 cores, 2.80 00MHz), Intel T	No GHz, urbo GHz, urbo GHz, urbo GHz, urbo	None 3,3MB c Boost 2 6MB ca Boost 2 6MB ca Boost 2 8MB ca Boost 2	Intel 6205 ache), Intel .0 (3.30GHz che), Intel H .0 (3.40GHz che), Intel H .0 (3.70GHz che), Intel H .0 (3.80GHz	X-Rite HD Grap), HT te ID Grap), HT te ID Grap), HT te ID Grap	9 chnochics chnochics chnochics	170W cs 4000, blogy s 4000, blogy s 4000, blogy s 4000,	Preid - So Preid listed	vPro paded me: W pr do wme: W pr do paded	G P opera indow einsta owngra indow indow applic	Win8 Pro64 ting system s® 7 Professi lled through ade rights in s 8 Pro 64-bi s 8 Pro 64-bi	05/13 20 onal 64 it	
Optical Ultrabay SATA disk mSATA™ SSD Widescreen display Color calibration Camera Graphics	dual-core model: quad-core model: quad-core model: All: 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 Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut Some: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest, LED indica 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;											- Windows 7 models Lenovo® Message Center Plus ThinkVantage Product Recovery Access Connections™ ThinkVantage Power Manager Lenovo SimpleTap Adobe® Reader® Windows Live™ Essentials 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 AccuWeather				
Keyboard TrackPoint® Touchpad ThinkLight™ Dimensions³ Weight² Case material Battery - type Battery - life¹⁰	Intel HD Graphics 4000 in processor, and NVIDIA Quadro® K1000M or K2000M, PCI Express® x16, 2GB memory,										Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) All models Lenovo Solution Center Password Manager ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security					
Chipset ExpressCard Smart Card Read Multicard Reader Ports PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN SIM card	Mobile Intel One slot (Exp None 4-in-1 reader Two USB 3.0 ethernet (RJ- Two PCI Exp Some: 11a/b	cell Slice ba QM77 ExproressCard/3- (MMC, SD, , two USB 2 45), IEEE 1: ress Mini Ca o/g/n, PCle Ho/g/n, PCle H	ess Chips 4) SDHC, SE .0 (one po 394 FireW ard slots Half Mini C Half Mini C		DB-15	5, Mini D ector; 13	nisplayPort, 894a-2000 st	2x2)					s definitions)		
Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	None None None 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® Home Theater® v4 / stereo speakers, 1W x 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 er AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip 12 3-years/1-year battery, limited onsite service²4, 8 am - 5 pm, Mon - Fri coverage exclude public and national holidays. Calls received after 3 pm will require an additional next businday for service dispatch / service upgrades available											watt or «Pad R agnesiu AT™ G RGY S ENGU S-comp nationa our x 7	170-w oll Cag im fran old rat TAR® ARD® oliant oliant day18	ntage® technatt AC adapt ge (one-piec me) ing 5.0-complian certified anty Service toll-free suppanty period¹²	ter e	

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

Type-model	Processor	Memory	Wide- screen display	Discrete graphics	Disk SATA GB ⁸ rpm	RAID	SATA optical	key-	PCIe Mini Card WWAN/ mSATA	Card	tery	Adapter	Intel	Ann Date (mm/yy)
2447-59G	i7-3840QM	8GBx1	15.6" FHD	K2000M	1T 5400 + 240G FDE SSD	No	None	Backlit	WWAN upg	None	9	170W	vPro	03/13
2447-58G	i7-3740QM	4GBx1	15.6" HD+	K1000M	1x500G 7200	No	DVD±RW	Backlit	32GB mSATA	Smart	9	135W	vPro	03/13
2447-57G	i7-3740QM	8GBx1	15.6" FHD	K2000M	1x240G FDE SSD	No	DVD±RW	Backlit	WWAN upg	Smart	9	170W	vPro	03/13
2447-54G	i7-3840QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	DVD±RW	Backlit	32GB mSATA	None	9	170W	vPro	03/13
2447-5MG	i7-3840QM	8GBx1	15.6" FHD	K2000M	1T 5400 + 256G SSD OPA	L No	None	Backlit	WWAN upg	None	9	170W	vPro	06/13
2447-5LG	i7-3740QM	8GBx1	15.6" FHD	K2000M	1x256G SSD OPAL	No	DVD±RW	Backlit	WWAN upg	Smart	9	170W	vPro	06/13

• Power-packed engineering with Open GL graphics and ISV certifications

Positioning Processor	Mobile workstation; two spindles 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 i7-3840QM 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 - Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit Preloaded applications⁵ (only some listed) - Windows 7 models - Lenovo® Message Center Plus - ThinkVantage Product Recovery - Access Connections™ - ThinkVantage Power Manager - Lenovo SimpleTap - Adobe® Reader® - Windows Live™ Essentials - Corel® WinDVD® (DVD±RW)				
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					
Optical Ultrabay SATA disk mSATA™ SSD Widescreen	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 Some: mSATA Solid State Drive (SSD), via PCle Mini Card slot Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight,					
display Color calibration	Some: 15.6 (396mm) Full HD (1920x1080) 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	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 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 AccuWeather 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	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: 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	ThinkVantage System Update Fingerprint Software (fingerprint models) Lenovo Cloud Storage by SugarSync Microsoft® Office preloaded; purchase a product key to activate				
	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), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	Norton™ Internet Security (30 days of virus definitions)				
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN SIM card Modem	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Ultimate-N 6300, 3x3 Some: Wireless WAN upgradable None None					
Bluetooth™ Ethernet	Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	Supports ThinkVantage® technologies				
Intel AMT Audio support Security Security chip	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 r AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	135-watt or 170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant				
Limited warranty ¹²	² 3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²				