#### **ThinkPad W530**











Lenovo ThinkPad W530



Lenovo ThinkPad W530 with four displays



Lenovo ThinkPad W530

## ThinkPad W530 2438 (Optimus) - TopSeller

Wido. Diak Baskit DCla DCla Mini Card Curant Bat Ann												
Type-model Proce		Disk Discrete SATA graphics GB <sup>8</sup> rpm	RAID	Backlit key- board	PCIe I Mini Card WLAN	PCIe Mini Card WWAN/ mSATA	Smar Card Reade	Color	Bat- tery Inte cells vPr	l o Preload	Ann Date (mm/yy)	
2438-2MU i7-392		(2000M 1x500G 7200		None		WWAN upg	Smar	t X-Rite		Pro 64		
2438-2LU i7-372		(2000M 1x500G 7200			Intel 6205	WWAN upg	None			Pro 64		
2438-2KU i7-382		(1000M 1x500G 7200		None	Intel 6205	WWAN upg	None			o Pro 64		
2438-2JU i7-372		(1000M 1x500G 7200			Intel 6205	WWAN upg	None			o Pro 64 o Pro 64		
2438-2HU i7-372	OQM 4GBx2 15.6" FHD K OQM 8GBx1 15.6" FHD K	(1000M 1x500G 7200		None	Intel 6205	WWAN upg WWAN upg	None			o Pro 64		
2438-39U i7-372		(1000M 1x500G 7200 (1000M 1x500G 7200				WWAN upg	None			o Pro 64		
2438-59U i7-384		(1000M 1x500G 7200			Intel 6205	WWAN upg	None			Pro 64		
2438-58U i7-394		2000M 1x500G 7200		None	Intel 6205	WWAN upg	Smar			Pro 64		
2438-57U i7-374	OQM 4GBx1 15.6" FHD K	(2000M 1x500G 7200	No	None	Intel 6205	WWAN upg	None	None	9 vPr	o Pro 64	02/13	
Positioning Processor	Mobile workstation; two spin Intel® Core™ i7-3720M printel HD Graphics 4000, DE Intel Turbo Boost 2.0 (3.60Gi Intel Core i7-3740QM proced DR3 memory controller (up Intel Core i7-3820QM proced DDR3 memory controller (up Intel Core i7-3840QM proced DDR3 memory controller (up Intel Core i7-3940XM proced DDR3 memory controller (up Intel Cored III (up Intel Cored II (up Intel Cored III (up Intel Cored II	ocessor (4 cores, 2.60 DR3 memory controller Hz), HT technology essor (4 cores, 2.70GHz) to 1600MHz), Intel Turessor (4 cores, 2.70GHz) to 1600MHz), Intel Turessor (4 cores, 2.80GHz) to 1600MHz), Intel Turessor (4 cores, 2.90GHz)	(up to	MB cach cost 2.0 MB cach cost 2.0 MB cach cost 2.0 MB cach cost 2.0 MB cach	IHz), (182), (182), (183), (184), (18	HT technology Graphics 400 HT technology Graphics 400 HT technology Graphics 400 HT technology Graphics 400 HT technology	0, R 0, 0, lis 0, P 0, e	reloaded enuine W rofessiona eady to in ome listed Rescue a Password reloaded sted) Lenovo® ThinkVar	indows® 7 al 64  nstall app ) and Record Manage applicati Solution ( Message (	plications very™ r ons¹⁴ (on Center Center Plu	h <sup>14</sup> (only ly some	
Memory	DDR3 memory controller (up dual-core model: 16GB maguad-core model: 32GB maguad-core model: 32GB maguad-core model: 440 maguad-core model	o to 1600MHz), Intel Tur ax <sup>7</sup> , two 204-pin SO-DIN ax, four 204-pin SO-DIN	bo Bo MM so MM so	oost 2.0 ockets ockets	(3.90GHz), I	HT technology	:	Access C Fingerpri models) ThinkVar	Connectio nt Softwa	ns™ re (finger¦	orint	
Onting!		00 1600MHz DDR3, no		nty, aua	-cnannei car	Dable		ThinkVar				
Optical Ultrabay SATA disk	DVD burner, 12.7mm Ultraba One bay for removable devic Some: Solid State Drive (SS Some: HDD / SATA 3.0Gb/s All: removable, upgradab	es, Ultrabay Slim-comp SD) / SATA 6.0Gb/s, 2.5	atible " wid 5mm l	e, 7mm nigh, Ac	high tive Protectio	n System™	•	Lenovo C by Sugar Lenovo S Microsoft	Cloud Stor Sync SimpleTap ® Office p	age		
mSATA™ SSD	None	, , , ,						Norton™				
Widescreen display	Some: 15.6" (396mm) Full 270 nits, 16:9 aspect Some: Pantone® color calibr	t ratio, 500:1 contrast ra <b>HD (1920x1080) color</b> t ratio, 500:1 contrast ra rator by X-Rite® color ca	atio, 6 , anti- atio, 9 alibrat	0% Gar glare, L 5% Gar ion sens	nut ED backlight nut sor in palm re	est, LED indica	tor •	Àdobe® F Skype™ f Evernote Intel Sma	Reader® for Windo ® all Busine	ss Advant	age	
Camera	HD720p resolution, wide view							RapidBoo Symante		ccelerator	·	
Graphics	NVIDIA® Optimus™ technolo Intel HD Graphics 4000 in p NVIDIA Quadro® K1000M oi supports external analog mo supports three independent Maximum external resolutior 1920x1200@60Hz (single-lir	orocessor, and r <b>K2000M</b> , PCI Express nitor via VGA DB-15 ar displays; n: 3840x2160@60Hz (I	s® x16 nd dig Displa	6, <b>2GB</b> r jital mor ayPort vi	nemory, itor via Mini a optional M	DisplayPort; ini DP cable);	•	Windows Corel® W Corel Bu (DVD±RV Corel DV	Live™ Es inDVD® (I rn.Now™ V) D MovieF DVD±RW)	DVD±RW) Lenovo E actory® Lo	dition enovo	
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage TrackPoint® pointing device, ' UltraNav™, wide touchpad b Illuminates the keyboard to i	'Press-to-Select," Interr elow keyboard, Tap Zor	net So nes, s	croll Bar crolling,	<sup>13</sup> , magnifyin multi-touch		ht		ibration n		brator	
Dimensions <sup>3</sup> Weight <sup>2</sup> Case material Battery - type Battery - life <sup>10</sup>	15.6W" (WxDxH): 14.68" x 9 6-cell: starting at 5.76 lb (2.6 Display cover: Carbon-fiber / Lithium Ion 6-cell or 9-cell, si 6-cell (57Whr): up to 7.7 hr; 9-cell plus 9-cell Slice batter	.65" x 1.25-1.40"; 372.8 2kg); <i>9-cell</i> : starting a Glass-fiber hybrid; <i>Bot</i> upports optional Slice b <i>9-cell (94Whr)</i> : up y (94Whr, 0A36304): up	Bmm: at 6.1 tom: atter to 1	x 245.1r 9 lb (2.8 Glass-fil y as 2nd 2.8 hr;	nm x 31.8-35 31kg) per reinforces	d plastic w/o pa	aint 1					
Chipset	Mobile Intel QM77 Express	Chipset										
ExpressCard Smart Card Read	One slot (ExpressCard/34)  Some: Smart Card reader											
	4-in-1 reader (MMC, SD, SD	HC, SDXC)					S	upports T	ninkvanta	.ge® techn	lologies	
Ports	Two USB 3.0, two USB 2.0 (	one powered), VGA DB						70-watt A				
	ethernet (RJ-45), IEEE 1394		nnec	tor; 139	4a-2000 stan	idard)	T	hinkPad F			е	
PCIe Mini Card	Two PCI Express Mini Card		nos d	N coor	0.40			magnesıı PEAT™ G	um frame old rating	,		
PCIe WLAN⁴ PCIe WWAN	11a/b/g/n, PCIe Half Mini Ca Wireless WAN upgradable	iu, inter Centino Adva	uicea	-IN 02U5	, <b>∠</b> X <b>∠</b>		E	NERGY S	STAR® 5.0		ıt	
Carrier	None							REENGU		tified		
Modem Blueteeth™	None							oHS-com		v Service	17	
Bluetooth™ Bluetooth 4.0 wireless Ethernet Bluetooth 4.0 wireless Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1  International Warranty Service¹7 24 hour x 7 day¹8 toll-free support												
Intel AMT	Intel Active Management Tec		<i></i>	111, FC	/IO A I					y period <sup>12</sup>		
Audio support	HD Audio, Realtek® ALC320	2 codec, Dolby® Home						or compat	ible acce	ecorioc n	0360	
Socurity	volume up, down, mute butto							o to O-W5			case	
Security Security chip	Power-on password, hard dis Trusted Platform Module, TC		ı pas	sworu, S	ecunty keyn	UI <del>C</del>	1 -	or Lenovo			options	
	AuthenTec fingerprint reader Power On Authentication, su	on palm rėst, swipe se		LED inc	dicator,		pl	ease go t	o QP-TA	sheet;	.	
Limited warranty <sup>12</sup>	3-years/1-yr battery - depot	, , ,		ides <sup>22</sup> av	ailahle			or ISV cer ww.lenovo			ISIT	
	o-years/ 1-yr ballery - depot i	epan service / service i	upgra	iuco di	allable		VV	vv vv.1 <del>C</del> 110V(	ouii/sup	ρυινισν		

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

Type-model	Processor	Memory	Wide- screen display	Discrete graphics	Disk SATA GB <sup>®</sup> rpm	RAID	Backlit key- board	Mini Card	PCIe Mini Card WWAN/ mSATA	Color to		Intel	Intel vPro	Preload	Ann Date (mm/yy)
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
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
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
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
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
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
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
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
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
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

Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), intel Turbo Boost 2, 01 (3.40fet), HT technology intel Core 17-37200M processor (a cores, 2.40fet), 6Mb cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2, 01 (3.60fet), HT technology intel Core 17-37200M processor (4 cores, 2.40fet), 6Mb cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2, 01 (3.70GHz), HT technology dual-core model: 16GB max, 1, wo 204-pin SO-DIMM sockets qual-core model: 32GB max, 1, wo 204-pin SO-DIMM sockets qual-core model: 32GB max, 1, wo 204-pin SO-DIMM sockets qual-core model: 16GB max, 1, wo 204-pin S		<ul> <li>Power-packed engineering with Open GL graphics and ISV certifications</li> </ul>	
Optical  Opt	Processor	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 dual-core model: 16GB max <sup>7</sup> , two 204-pin SO-DIMM sockets quad-core model: 32GB max, four 204-pin SO-DIMM sockets	- 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)
Widescreen display Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 201nls, 16.9 aspect ratio, 500 of contrast ratio, 69% Gamut Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution wide face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed	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	ThinkVantage Product Recovery     Access Connections™     ThinkVantage Power Manager     Lenovo SimpleTap     Adobe® Reader®     Corel® WinDVD® (DVD±RW)
Bray	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  None	(DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW) • Windows 8 models • Lenovo Support
Keyboard TrackPoint® 5 nithinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® 5 nithing 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  15.6W™ (WxDxH): 14.68™ sp.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) Case material Display cover: Carbon-fiber of Glass-fiber hybrid; Battery - life¹⁰ Battery - life¹⁰ Battery - life¹⁰ Chipset ExpressCard Smart Card Read Multicard Reader 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)  PCle Mini Card PCle WUAN Carrier None Bluetooth¹ Wireless WAN upgradable None Bluetooth¹ Bluetooth¹ None Bluetooth¹ Bluetooth 4.0 wireless Security Power-on password, hard disk password, supervisor password, supervisor password, security keyhole For component on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip Fingerprint reader splate. The Nord TrackPoint part of the wisoble place wisblint of the support authentication, supports the security chip Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip		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);	Lenovo QuickLaunch     PC Device Stage     Cyberlink Power2Go (DVD±RW)     Cyberlink PowerProducer (DVD±RW)     All models
Weight² Case material Battery - type Battery - life¹⁰ Battery - life¹ battery (94Whr, 0A36304): up to 12.8 hr; Battery - life¹⁰ Battery - life¹ battery (94Whr, 0A36304): up to 25.6 hr Battery - life¹ battery - life¹ battery - life¹ battery - life¹ battery - li	TrackPoint® Touchpad	TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch	Password Manager     ThinkVantage System Update     Fingerprint Software (fingerprint
ExpressCard Smart Card Read Smart Card Read Multicard Reader AuthenTec fingerprint reader (MMC, SD, SDHC, SDXC)  Supports ThinkVantage® technologic Thouse Support Supports ThinkVantage® technologic Supports ThinkVantage® technologic Trouble Author International Marranty Capps (non-piece magnesium frame) EPAT™ Gold rating ENAT™ Supports ThinkVantage® technologic Toble Advanced None ThinkPad Roll Cage (one-piece magnesium frame) EPAT™ Gold rating ENAT™ Gold	Weight <sup>2</sup> Case material Battery - type	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;	by SugarSync  • Microsoft® Office preloaded; purchase a product key to activate
Smart Card Read Multicard Reader Multicard Reader Ports			
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 PCIe WLAN⁴ PCIe WWAN Wireless WAN upgradable None Modem None Bluetooth™ Bluetooth™ Bluetooth™ Some: Intel Active Management Technology (iAMT)  Audio support Power-on password, hard disk password, supervisor password, security chip  Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, PCIe WLAN⁴ PCIe WLAN⁴ PCIe WLAN⁴ PCIe WLAN⁴ Power-on password, page visit Ports Power visit visit Power visit Power visit Power visit Power visit Po	Smart Card Read	None	Supports ThinkVantage® technologies
PCIe WLAN⁴		Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort,	ThinkPad Roll Cage (one-piece
Audio support Security Security chip Fingerprint reader AuthenTec fingerprint reader Security chip Fower On Authentication, supports the security chip Security chip Fingerprint reader Security chip For compatible accessories, please go to O-W530 sheet; For compatible accessories, please go to O-W530 sheet; For Lenovo service <sup>22</sup> upgrade option please go to QP-TA sheet; For ISV certifications, please visit	PCIe WLAN⁴ PCIe WWAN Carrier Modem Bluetooth™ Ethernet	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	EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified RoHS-compliant International Warranty Service <sup>17</sup> 24 hour x 7 day¹8 toll-free support
Fingerprint reader AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip please go to QP-TA sheet; For ISV certifications, please visit	Audio support Security	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	go to O-W530 sheet;
		AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	,
	Limited warranty <sup>12</sup>	3-years/1-yr battery - depot repair service / service upgrades <sup>22</sup> available	

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

		Wide- screen	Discrete	Disk SATA		Backlit kev-			Color to				Intel		Ann Date
Type-model Processor	Memory		graphics		RAID	board			calib c					Preload	(mm/yy)
2438-5JU i7-3740QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Smart	Finger	X-Rite	9	135W	iAMT	vPro	Win8 Pro64	03/13
2438-5HU i7-3740QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Smart	Finger	X-Rite	9	135W	iAMT	vPro	Win7 Pro64	03/13
2438-5GU i7-3740QM	8GBx1	15.6" HD+	K2000M	1x500G 7200	No	Backlit	Smart	Finger	X-Rite	9	135W	iAMT	vPro	Win7 Pro64	03/13
2438-5FU i7-3630QM	8GBx1	15.6" HD+	K2000M	1x500G 7200	No	Backlit	Smart	Finger	X-Rite	9	135W	None	No	Win8 Pro64	03/13
2438-5EU i7-3630QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Smart	Finger	X-Rite	9	135W	None	No	Win8 Pro64	03/13
2438-5DU i7-3630QM	8GBx1	15.6" FHD	K2000M	1x500G 7200	No	Backlit	Smart	Finger	X-Rite	9	135W	None	No	Win7 Pro64	03/13
2438-5CU i7-3630QM	8GBx1	15.6" HD+	K2000M	1x500G 7200	No	Backlit	Smart	Finger	X-Rite	9	135W	None	No	Win7 Pro64	03/13
2438-62U i7-3740QM	4GBx2	15.6" FHD	K1000M	1x500G 7200	No	Backlit	None	None	None	9	170W	iAMT	vPro	Win7 Pro64	07/13
2438-5ZU i7-3740QM	4GBx2	15.6" FHD	K1000M	1x256G SSD OPAL	. No	Backlit	None	None	None	9	170W	iAMT	vPro	Win7 Pro64	07/13
2438-5YU i7-3630QM	4GBx2	15.6" HD+	K1000M	1x256G SSD OPAL	. No	Backlit	None	None	None	9	170W	None	No	Win7 Pro64	07/13
2438-5XU i7-3630QM	4GBx2	15.6" HD+	K1000M	1x500G 7200	No	Backlit	None	None	None	9	170W	None	No	Win7 Pro64	07/13

- 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 <sup>20</sup> - 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: All:  GB max <sup>7</sup> , two 204-pin SO-DIMM sockets 32GB max, four 204-pin SO-DIMM sockets PC3-12800 1600MHz DDR3, non-parity, dual-channel capable	<b>Preloaded applications</b> <sup>5</sup> (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	Windows 7 models     Lenovo® Message Center Plus     ThinkVantage Product Recovery     Access Connections™     ThinkVantage Power Manager     Lenovo SimpleTap
Widescreen display  Color calibration Camera	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  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)	Windows 8 models     Lenovo Support     Lenovo Companion     Lenovo QuickLaunch     PC Device Stage     Cyberlink Power2Go (DVD±RW)     Cyberlink PowerProducer (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	All models     Lenovo Solution Center     Password Manager     ThinkVantage System Update
Dimensions <sup>3</sup> Weight <sup>2</sup> Case material Battery - type Battery - life <sup>10</sup>	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	Fingerprint Software (fingerprint models)     Lenovo Cloud Storage by SugarSync     Microsoft® Office preloaded; purchase a product key to activate     Skype™
Chipset ExpressCard	Mobile Intel QM77 Express Chipset One slot (ExpressCard/34)	
Multicard Reader	Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC)	Supports ThinkVantage® technologies
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)	135-watt or 170-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	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	For compatible accessories, please go to O-W530 sheet;
Security chip	Trusted Platform Module, TCG 1.2-compliant r Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator,	For Lenovo service <sup>22</sup> upgrade options, please go to QP-TA sheet;
Limited warranty <sup>12</sup>	Power On Authentication, supports the security chip  2 3-years/1-yr battery - depot repair service / service upgrades <sup>22</sup> available	For ISV certifications, please visit www.lenovo.com/support/ISV

## ThinkPad W530 2441 (Optimus)

2441-381 Jr. 3-7200M 46Bst 15.6° FHD K1000M 25090 7200 to None None Intel 6200 group Finger 9 vPro G Pro 6 4 0912 2441-381 Jr. 3-7200M 46Bst 15.6° FHD K2000M 15000 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0912 2441-381 Jr. 3-7200M 46Bst 15.6° FHD K2000M 15000 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0912 2441-381 Jr. 3-7200M 46Bst 15.6° FHD K2000M 15000 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0912 2441-381 Jr. 3-7200M 46Bst 15.6° FHD K2000M 15000 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0912 2441-381 Jr. 3-7200M 46Bst 15.6° FHD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0912 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0912 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200M 46Bst 15.6° HD K2000M 15200 7200 No DVD-EPR Who ne Intel 8200 upg Finger 9 vPro G Pro 6 4 0913 2441-381 Jr. 3-7200 M 46Bst 15.6° HD K2000M 15200 ND PRO FINGER 9 vPro																
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Pastioning Processor Mobile workstands, who spiralizes and the positioning Processor of Cores 17-37200M processor (4 cores 2, 506Hz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel HD Graphics 4000 processor 4000mHz, Intel HD Graphics 4																
Pediloning Mobile worksteibnic, two spindles infel Core 17-3720M processor (4 cores, 2.60GHz, 6MB cache), infel HD Graphics 4000. DDR3 memory controller (up to 1600MHz), infel Core 17-3720M processor (4 cores, 2.60GHz, 6MB cache), infel HD Graphics 4000. DDR3 memory controller (up to 1600MHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.70GHz), HT technology infel Core 17-38200M processor (4 cores, 2.70GHz), infel Turb Boost 2.0 (3.80GHz), infel Turb B																
Processor   Intel® Core® 17-37200M processor (4 cores, 2.8064z, 8MB cache), Intel HD Graphics 4000, DPS amenory controller (up to 1600MHz), Intel Turbo Bost 2 to (3 -706Hz), HT technology Intel Core 17-38200M processor (4 cores, 2.706Hz, 8MB cache), Intel HD Graphics 4000, DPS amenory controller (up to 1600MHz), Intel Turbo Bost 2 to (3 -706Hz), HT technology Intel Core 17-38200M processor (4 cores, 2.706Hz, 8MB cache), Intel HD Graphics 4000, DPS amenory controller (up to 1600MHz), Intel Turbo Bost 2 to (3 -806Hz), HT technology dual-core model: 3208 max, four 204-pin SO-DIMM sockets   40 -80 -80 -80 -80 -80 -80 -80 -80 -80 -8					1,0000 7,200	110	DIBERRY	140110	111101 0000	apg						
Memory    dual-core model: 160B max*, two 204-pin SO-DIMM sockets   qual-core model: 202B max, fuer 204-pin SO-DIMM sockets   All: PCS-12800 1600MHz DDR3, non-parity, dual-channel capable   Complete the procession of the proces	Processor	Intel® Core™ Intel HD Gra Intel Turbo Bo Intel Core i7 DDR3 memo Intel Core i7 DDR3 memo Intel Core i7	1 i7-3720QM phics 4000, Epost 2.0 (3.60) -3740QM pro- ry controller (1-3820QM pro- ry controller (1-3840QM pro-	processor DDR3 men GHz), HT to cessor (4 up to 1600 cessor (4 up to 1600 cessor (4	nory controller technology cores, 2.70GH MHz), Intel Tur cores, 2.70GH MHz), Intel Tur cores, 2.80GH	(up to Iz, 6N bo Bo Iz, 8N bo Bo Iz, 8N	MB cache), boost 2.0 (3. MB cache), boost 2.0 (3. MB cache),	ntel H 70GHz Intel H 70GHz Intel H	), HT techno I <b>D Graphic</b> ), HT techno I <b>D Graphic</b>	ology <b>s 4000</b> , ology <b>s 4000</b> ,	Ready some lise. Passiv	e Win ional to ins sted) ue ar word	idows <sup>®</sup> 64 <b>stall a</b> nd Rec Manag	∘ 7 <b>pplic</b> covery ger	eations y™	<sup>14</sup> (only
Optional Content 12-7mm Ultrabay Enhanced renovable 2-7mm high, bottom access Connections 2-7mm high, active Protection System 2-7mm high, active Protection S	Memory	dual-core mo	odel: 16GB r	nax <sup>7</sup> , two 2 nax, four 2	204-pin SO-DIN 204-pin SO-DIN	/IM so	ockets ockets		, .	ology	<ul><li>Leno</li></ul>	νο Με	essage	e Cer	nter Plu	
Ulirabay Some: Solid State Drive (SSD) / SATA GolSby. 2.5" wide, 7mm high, bottom access Some: Solid State Drive (SSD) / SATA GolSby. 2.5" wide, 7mm high, active Protection System* All: removable, upgradable, supports the second disk, 5hock Mounted Hard Drive None Some: 16.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16.9 aspect rato, 5001 contrast rato, 60% Gamut None 270 nisk, 16.9 aspect rato, 5001 contrast rato, 50% Gamut HD 720 presolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus HD720p resolution, wide view angle, low blank and NVIDIA* Optimus** technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA* Optimus** technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA* Optimus** technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA* Optimus** technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA* Optimus** technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA* Optimus** technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA* Optimus** (Solid processor) and NVIDIA** (Solid processor) and NV	Ontine							iannel (	apable							, J, y
SATA disk  Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5° wide, 7mm high  Some: HDI / SATA 3.0Gb/s, 2.5° wide, 7mm or 9.5mm high, Active Protection System™  All: removable, upgradable, supports the second disk, Shook Mounted Hard Drive  Moscreen  display  Some: 15.6° (396mm) HDI (160x900) color, anti-glare, LED backlight,  Some: 15.6° (396mm) HDI (160x900) color, anti-glare, LED backlight,  Some: 15.6° (396mm) HDI HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  All (1920x1200x1080) color (2020x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color, anti-glare, LED backlight,  Some: 15.6° (396mm) Full HDI (1920x1080) color (2020x1080) color (2020x1080								hiah ha	ottom acces				t Softv	vare (	(fingerp	rint
mSATA™ SSD None  Widescreen Gisplay  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 None Camera  None Camera  NVIDIA* Optimus** (bernology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA Quadro** N10000 Nor 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: 3940x160 @60Hz (DisplayPort via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard TrackPoint** [1000 @60Hz (single-link DVH via optional Mini DP cable); 2048x1536 @85Hz (VGA)  Keyboard	SATA disk	Some: Solid Some: HDD	State Drive (\$ / SATA 3.0Gb	SSD) / SA7 /s, 2.5" wid	TA 6.0Gb/s, 2.5 de, 7mm or 9.5	" wid mm l	e, 7mm hig nigh, Active	h Protec	tion System		<ul><li>Think</li><li>Think</li></ul>	Vánta Vanta	age Po	wer	Manag	
Some: 15.6" (396mm) HD- (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:11 contrast ratio, 60% Gamun Normal More of the Color calibration Normal HD (1920x1080) color, anti-glare, LED backlight, Normal HD (1920x1080) color, and digital monitor via Mini Display Port, Windows Live* Essentials Normal HD (1920x1080) color, anti-glare, LED backlight, Normal HD (1920x1080) color, anti-glare, anti-glare, anti-glare, anti-glare, anti-glare, anti-glare,	mSATA™ SSD		, . [ 3	,			,							oragi	ь	
Color calibration  Camera  NVIDA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDA Quadro® K1000M or K2000M, PCI Express® x16, 2GB memory, supports external analog monitor via use 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	Widescreen display	220 r Some: <b>15.6</b> "	nits, 16:9 aspe ' (396mm) <b>Fu</b> l	ct ratio, 50 I <b>I HD (192</b>	0:1 contrast ra 0x1080) color	ıtio, 6 , anti-	0% Gamut glare, LED	backlig	ıht,		<ul><li>Lenor</li><li>Micropurch</li></ul>	vo Sii soft® ase a	mpleTa Office a prod	prel	ey to ac	
Skype   Mr.   M	Color calibration Camera	None							focus		(30 d	ays o	f virus	defir		/12
Core   Burn. Now   Lenovo Edition   Core   Core   Core   Core   Core   Burn. Now   Lenovo Edition   Core	Graphics	Intel HD Gra NVIDIA Quad supports exte supports thre Maximum ext	phics 4000 in dro® K1000M ernal analog m ee independen ternal resolution	processo or <b>K2000</b> nonitor via t displays; on: 3840x	r, and <b>/</b> I, PCI Express VGA DB-15 ar 2160@60Hz (I	s® x16 nd dig Displa	5, <b>2GB</b> mer pital monitor ayPort via c	mory, r via Mi	ni DisplayPo Mini DP cal	ble);	<ul><li>Everr</li><li>Intel S</li><li>Rapid</li><li>Syma</li><li>Wind</li><li>Corel</li></ul>	note® Small dBoot intec ows L ® Wir	Busir HDD VIP ive™ DVD®	ess / Acce Esse (DVI	elerator ntials D±RW)	
Dimensions³  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) Case material Display cover: Carbon-fiber 7 (Jlass-fiber rhyfrid; Battery - type Battery - life¹⁰ Bottom:	Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key TrackPoint® p UltraNav™, w	r, ThinkVantag ointing device ride touchpad	e button, s , "Press-to below key	spill-resistant, r -Select," Interr board, Tap Zor	nultin net So nes, s	nedia Fn ke croll Bar <sup>13</sup> , crolling, m	eys, opt magnify	ional LED b		<ul><li>(DVD</li><li>Corel</li><li>Edition</li></ul>	±RW DVD n (D\	) Movie /D±R\	eFact V)	tory® Le	enovo
Battery - life of the coll (57Whr): up to 7.7 hr;	Dimensions <sup>3</sup> Weight <sup>2</sup> Case material Battery - type	6-cell: starting Display cover Bottom:	g at 5.76 lb (2 r: Carbon-f Glass-fib	.62kg); s iber / Glas er reinford	9-cell: starting a s-fiber hybrid; ed plastic with	at 6.1 out p	9 lb (2.81k aint	g)		cation						
ExpressCard One slot (ExpressCard/34) Smart Card Reader None 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), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)  PCle Mini Card PCle Mini Card Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3  PCle WWAN Wireless WAN upgradable None Bluetooth Modem None Bluetooth Bluetooth 4.0 wireless Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1 Intel Adtro 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 Power-on password, hard disk password, supervisor password, security keyhole Security Power On Authentication, supports the security chip  Express Mini Card slots Supports Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCle Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3  PCle WWAN Wireless WAN upgradable REENGUARD® certified ROHS-compliant International Warranty Service¹¹ 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 O-W530 sheet; For Lenovo service²² upgrade options, please yo to QP-TA sheet; For ISV certifications, please visit	Battery - life <sup>10</sup>	6-cell (57Whi 9-cell plus 9-	r): up to 7.7 hr cell Slice batte	; ' 9-c ery (94Wh	r <i>ėll (94Whr):</i> up <i>r, 0A36304):</i> up	to 1	2.8 hr;	attory, r	TVV Addiciti	Callon						
Forts 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 PCIe WLAN⁴ PCIe WLAN⁴ PCIe WLAN⁴ PCIe WWAN Wireless WAN upgradable None Bluetooth™ Bluetooth™ Bluetooth™ Intel Active Management Technology (iAMT) Audio support Audio support Security Power-on password, hard disk password, supervisor password, security keyhole Fingerprint reader For Lenvis Card Slots Same: 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® 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 Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Adm Allois, 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 Trusted Platform Module, TCG 1.2-compliant Fingerprint reader For Lenvo service²² upgrade options, please yoist For Lenvo service²² upgrade options, please yoist	ExpressCard Smart Card Read	One slot (Exp None	oressCard/34)	·									13.7		<b>.</b>	
PCIe Mini Card PCIe WLAN <sup>4</sup> 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  PCIe WWAN Wireless WAN upgradable None None Bluetooth 4.0 wireless Bluetooth 4.0 wirele	Ports	Two USB 3.0	, two USB 2.0	(one pow	eréd), VGA DB				andard)		170-wa	t AC	adapt	er		
Carrier None  Modem None  Bluetooth 4.0 wireless  Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle 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  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  GREENGUARD® certified RoHS-compliant  International Warranty Service <sup>17</sup> 24 hour x 7 day¹8 toll-free support during the warranty period¹2  For compatible accessories, please go to O-W530 sheet;  For Lenovo service²² upgrade options, please go to QP-TA sheet;  For ISV certifications, please visit	PCIe Mini Card PCIe WLAN <sup>4</sup>	Two PCI Exp Some: 11a/b Some: 11a/b	ress Mini Caro b/g/n, PCIe Ha b/g/n, PCIe Ha	d slots If Mini Car	d, Intel Centrin	o® A	dvanced-N	6205, 2	2x2		ThinkPa magn EPEAT	ad Ro esiur ™ Go	oll Cág n fram Id ratir	e (on ie) ig	·	
Intel AMT Audio support 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 Some: AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the 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 Security chip Trusted Platform Module, TCG 1.2-compliant For Lenovo service²² upgrade options, please go to QP-TA sheet; For ISV certifications, please visit	Carrier Modem Bluetooth™	None None Bluetooth 4.0	) wireless	world One	action (Lawins	:!!a\ !		v4			GREEN RoHS-c Internat	IGUA compl ional	RD® c iant Warra	ertific	ed <sup>:</sup> Service <sup>1</sup>	7
Security Power-on password, hard disk password, supervisor password, security keyhole 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  Trusted Platform Module, TCG 1.2-compliant For Lenovo service <sup>22</sup> upgrade options, please go to QP-TA sheet; For ISV certifications, please visit	Intel AMT Intel Active Management Technology (iAMT) Audio support HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 /															
	Security Security chip Fingerprint reader	Power-on pas Trusted Platfor Some: Author	ssword, hard o orm Module, T enTec fingerpr	disk passw CG 1.2-co int reader	ord, superviso impliant on palm rest, s	r pas swipe	sword, sec sensor, LE	urity ke	yhole	k	go to O	-W53 ovo s	0 shee	et; e <sup>22</sup> up	grade d	
	Limited warranty <sup>12</sup>				<u> </u>			able								sit

### ThinkPad W530 2441 (Optimus) - Windows 8

			Wide- screen	Discrete		isk ATA		SATA	Backlit kev-	PCle Mini Card	Color	Bat-		bal (		Ann Date
Type-model Pro	ocessor	Memory	display	graphics			RAID		board	WLAN			vPro		Preload	(mm/yy)
2441-45U i7-3	3820QM	4GBx2	15.6" FHD	K2000M	1x500G	7200	No	DVD±RW	None	Intel 6205 <sup>28</sup>	X-Rite	9	vPro	G '	Win8 Pro6	4 10/12
2441-46U i7-3	3720QM	4GBx1	15.6" HD+	K1000M	1x500G	7200	No	DVD±RW	None	Intel 6205	X-Rite	9	vPro	G '	Win8 Pro6	4 10/12
2441-5SU i7-3	3740QM	4GBx2	15.6" FHD	K1000M	1x180G	SSD	No	DVD±RW	Backlit	Intel 6205	None	9	vPro	,	Win7 Pro6	4 02/13
2441-5EU i7-3	3740QM	4GBx2	15.6" FHD	K1000M	1x500G	7200	No	DVD±RW	Backlit	Intel 6205	None	9	vPro	,	Win7 Pro6	4 02/13
2441-5DU i7-3	3840QM	4GBx2	15.6" FHD	K1000M	1x240G	FDE SSD	No	DVD±RW	Backlit	Intel 6205	None	9	vPro	,	Win7 Pro6	4 02/13
2441-5CU i7-3	3740QM	4GBx2	15.6" HD+	K1000M	2x500G	7200	1	None	Backlit	Intel 6205	None	9	vPro	,	Win7 Pro6	4 02/13
2441-5BU i7-3	3740QM	4GBx2	15.6" HD+	K1000M	2x500G	7200	0	None	Backlit	Intel 6205	None	9	vPro	,	Win7 Pro6	4 02/13

- 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 15V 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 <sup>20</sup> - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit - Some: Windows 8 Pro 64-bit Preloaded applications <sup>5</sup> (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	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	Lenovo SimpleTap     Adobe® Reader®     Corel® WinDVD® (DVD±RW)     Corel Burn.Now™ Lenovo Edition (DVD±RW)     Corel DVD MovieFactory® Lenovo
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	Edition (DVD±RW)  - Windows 8 models  - Lenovo Support - Lenovo Companion - Lenovo QuickLaunch - PC Device Stage
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)	Cyberlink Power2Go (DVD±RW)     Cyberlink PowerProducer (DVD±RW)     All models     Lenovo Solution Center     Password Manager     ThinkVantage System Update
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	Fingerprint Software (fingerprint models)     Lenovo Cloud Storage by SugarSync
Dimensions <sup>3</sup> Weight <sup>2</sup> Case material Battery - type Battery - life <sup>10</sup>	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	Microsoft® Office preloaded; purchase a product key to activate     Norton™ Internet Security (30 days of virus definitions)     Skype™
Chipset ExpressCard	Mobile Intel QM77 Express Chipset 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), 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 <sup>4</sup> PCIe WWAN Carrier Modem Bluetooth <sup>TM</sup> 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)	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 Fingerprint reader	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	For compatible accessories, please go to O-W530 sheet; For Lenovo service <sup>22</sup> upgrade options, please go to QP-TA sheet;
Limited warranty <sup>12</sup>	2 3-years/1-yr battery - depot repair service / service upgrades <sup>22</sup> available	For ISV certifications, please visit www.lenovo.com/support/ISV

### ThinkPad W530 2447 (Optimus) - Onsite

	_		Wide- screen	Discrete	Disk SATA		SATA	Backlit key-	Mini Card	Finger print	Color		Intel		Pre-	Ann Date
Type-model	Processor	Memory	display	graphics	GB <sup>8</sup> rpm	RAID	optical	board	WLAN	reader	calib	cells	vPro	(P)	load (	mm/yy)
2447-3TU	i7-3720QM	4GBx1	15.6" FHD	K1000M	2x500G 7200	1	None	None	Intel 6205 <sup>28</sup>	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 <sup>28</sup>	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	<b>DVD</b> ±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 service<sup>24</sup> 3-year limited warranty
   Power-packed engineering with Open GL graphics and ISV certifications

	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	Preloaded operating system <sup>20</sup> Genuine Windows® 7 Professional 64
	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
Memory	dual-core model: quad-core model: All: 16GB max <sup>7</sup> , two 204-pin SO-DIMM sockets 32GB max, four 204-pin SO-DIMM sockets PC3-12800 1600MHz DDR3, non-parity, dual-channel capable	Preloaded applications <sup>14</sup> (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	<ul> <li>Lenovo Message Center Plus</li> <li>ThinkVantage Product Recovery</li> <li>Access Connections™</li> <li>Fingerprint Software (fingerprint models)</li> <li>ThinkVantage System Update</li> </ul>
mSATA™ SSD	None	<ul> <li>ThinkVantage Power Manager</li> </ul>
Widescreen display  Color calibration	<ul> <li>Some: 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio, 60% Gamut</li> <li>Some: 15.6" (396mm) Full HD (1920x1080) color, anti-glare, LED backlight, 270 nits, 16:9 aspect ratio, 500:1 contrast ratio, 95% Gamut</li> <li>Some: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest, LED indicator</li> </ul>	Lenovo Cloud Storage     by SugarSync     Lenovo SimpleTap     Microsoft® Office preloaded;     purchase a product key to activate
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 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)	(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	<ul> <li>Corel® WinDVD® (DVD±RW)</li> <li>Corel Burn.Now™ Lenovo Edition (DVD±RW)</li> <li>Corel DVD MovieFactory® Lenovo</li> </ul>
Dimensions <sup>3</sup> Weight <sup>2</sup> Case material Battery - type Battery - life <sup>10</sup>	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	Edition (DVD±RW)  • X-Rite® Pantone® Color Calibrator (color calibration models)
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), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)	Supports ThinkVantage® technologies
PCIe Mini Card PCIe WLAN <sup>4</sup>	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	170-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating
PCIe WWAN Carrier	Wireless WAN upgradable None	ENERGY STAR® 5.0-compliant
Modem	None	GREENGUARD® certified
Bluetooth™ Ethernet	Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1	RoHS-compliant International Warranty Service <sup>17</sup>
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	24 hour x 7 day <sup>18</sup> toll-free support during the warranty period <sup>12</sup>
Security	Power-on password, hard disk password, supervisor password, security keyhole	For compatible accessories, please go to O-W530 sheet;
	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 Lenovo service <sup>22</sup> upgrade options, please go to QP-TA sheet;
Limited warranty <sup>12</sup>	<b>3-years</b> /1-year battery, <b>limited onsite service</b> <sup>24</sup> , 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades <sup>22</sup> available	For ISV certifications, please visit www.lenovo.com/support/ISV

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

Type-model Proce	ssor Memory	Wide- screen display	Discrete graphics	Disk SATA GB <sup>®</sup> rpm	RAID	SATA optical	Backlit key- board	PCIe Mini Card WLAN		Bat- tery cells	Intel	obal (0 GMP (P)	G) Preload (	Ann Date (mm/yy)
2447-45U i7-372 2447-46U i7-382 2447-4ZU i7-374 2447-4YU i7-384 2447-4XU i7-374 2447-4WU i7-374 2447-5JU i7-384 2447-5JU i7-384 2447-5GU i7-384 2447-5FU i7-374	0QM 4GBx1 0QM 4GBx2 0QM 4GBx2 0QM 4GBx2 0QM 4GBx2 0QM 4GBx1 0QM 4GBx1 0QM 4GBx1 0QM 4GBx1	15.6" HD+ 15.6" FHD 15.6" FHD 15.6" FHD 15.6" HD+ 15.6" HD+ 15.6" FHD 15.6" FHD 15.6" FHD 15.6" FHD	K1000M K2000M K1000M K1000M K1000M K1000M K2000M K2000M K2000M K2000M	1x500G 7200 1x500G 7200 1x500G 7200 1x240G FDE SSI 2x500G 7200 2x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200 1x500G 7200	No No No No 1 0 No No No	DVD±RW DVD±RW DVD±RW	None None Backlit Backlit Backlit None None None	Intel 6205 <sup>28</sup> Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205	X-Rite X-Rite None None None X-Rite X-Rite X-Rite X-Rite	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	vPro vPro vPro vPro vPro vPro vPro vPro	GP GP GP GP GP	Win8 Pro64 Win8 Pro64 Win7 Pro64 Win7 Pro64 Win7 Pro64 Win8 Pro64 Win8 Pro64 Win8 Pro64 Win8 Pro64 Win8 Pro64 Win8 Pro64	10/12 10/12 02/13 02/13 02/13 02/13 05/13 05/13 05/13
Positioning Processor	Intel HD Grap Intel Turbo Bo Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor Intel Core i7- DDR3 memor	i7-3720QM bhics 4000, ost 2.0 (3.60 3740QM proy y controller 3820QM proy y controller 3840QM proy y controller	processo DDR3 me OGHz), HT ocessor (4 (up to 160 ocessor (4 (up to 160 ocessor (4 (up to 160	4 cores, 2.70GHz, 0MHz), Intel Turbo 4 cores, 2.70GHz, 0MHz), Intel Turbo 4 cores, 2.80GHz, 0MHz), Intel Turbo	6MB Boos 8MB Boos 8MB Boos	cache), In st 2.0 (3.70 cache), In st 2.0 (3.70 cache), In st 2.0 (3.80	itel HD ( GHz), H itel HD ( GHz), H itel HD (	T technology Graphics 400 T technology Graphics 400	00, / - 00, / P 00, / -	Som Som reloa sted) Wind	e: Wir pre dov Wir e: Wir ded a	ndows install vngrad ndows ndows pplica	ing system <sup>2</sup> <sup>®</sup> 7 Profession ed through de rights in 8 Pro 64-bit 8 Pro 64-bit ations <sup>5</sup> (only lels ge Center Pla	onal 64
Optical Ultrabay SATA disk mSATA™ SSD	quad-core mo All: Some: DVD to One bay for re Some: Solid Some: HDD	odel: 32GB PC3-1 purner, 12.7 emovable de State Drive SATA 3.0G	max, four 2800 1600 mm Ultrab evices, Ultr (SSD) / SA b/s, 2.5" w	204-pin SO-DIMN 204-pin SO-DIMN DMHz DDR3, non- ay Enhanced, rem abay Slim-compat TA 6.0Gb/s, 2.5" ride, 7mm or 9.5m ports the second of	l sock parity lovablible, 1 wide, 1 m high	ets , dual-char e 2.7mm hig 7mm high h, Active Pi	h, bottor	n access System™	•	Thin Acce Thin Lend Adol Core Core (DVI	kVanta ess Co kVanta ovo Sir oe® Re el® Wir el Burr o±RW	age Pronnection of the property of the propert	oduct Recovions™ bwer Manage ap	very er dition
Widescreen display  Color calibration Camera	220 n Some: 15.6" 270 n Some: Panto	its, 16:9 ásp (396mm) Fi its, 16:9 asp ne®color ca	ect ratio, 5 ull HD (19) ect ratio, 5 librator by	900) color, anti-g 500:1 contrast ratio 20x1080) color, a 500:1 contrast ratio X-Rite® color calib , low light sensitive	o, 60% nti-gla o, 95% oration	6 Gamut are, LED ba 6 Gamut n sensor in	acklight, palm res		- etor	Wind Lend Lend	on (D\ dows a ovo Su ovo Co	/D±RV 8 mod	V) <b>lels</b> ion	
Graphics	NVIDIA® Optin Intel HD Grap NVIDIA Quad supports exte supports three Maximum exte	mus™ techn phics 4000 i ro® K1000N rnal analog e independe ernal resolu	ology, auto in process If or <b>K2000</b> monitor via ent displays tion: 3840	o-switch between or, and IM, PCI Express® a VGA DB-15 and	discret x16, <b>2</b> digita splayF	te and integrated and	grated gr ry, ia Mini D ional Min	raphics, isplayPort; ii DP cable);	-	Cybe Cybe (DVI All m Lend Pass	erlink lerlink l D±RW nodels ovo So sword	Power ) <b>s</b> lution Manag	2Go (DVD±F Producer Center ger	,
Keyboard TrackPoint® Touchpad ThinkLight™ Dimensions³	TrackPoint® po UltraNav™, wi Illuminates the	pinting devic ide touchpac e keyboard t	e, "Press-tod below ke to improve	spill-resistant, mu co-Select," Interne yboard, Tap Zones visibility in low-ligi .25-1.40"; 372.8m	t Scro s, scro nt con	II Bar¹³, ma olling, multi iditions	gnifying -touch	glass	ght •	Fing mod Lend by S	erprini els) ovo Clo ugarS	Softv oud St ync	ystem Updat vare (fingerp corage preloaded;	
Weight <sup>2</sup> Case material Battery - type Battery - life <sup>10</sup>	6-cell: starting Display cover Bottom: Lithium Ion 6- 6-cell (57Whr	g at 5.76 lb ( Carbon Glass-fi cell or 9-cell ): up to 7.7 l	2.62kg); -fiber / Gla iber reinfoi I, supports nr; <i>9</i> .	9-cell: starting at uss-fiber hybrid; ced plastic withou optional Slice batherell (94Whr): up to thr, 0A36304): up to	6.19 II t pain tery a o 12.8	b (2.81kg) t s 2nd batte hr;			•	purc Nort	hase a on™ Ir days o	a prod nterne	uct key to act t Security definitions)	ctivate
Chipset ExpressCard Smart Card Read Multicard Reader	4-in-1 reader	ressCard/34 (MMC, SD,	l) SDHC, SD	XC)	⊏ N4:	s: Disales D			S	uppo	rts Thi	nkVan	itage® techno	ologies
Ports  PCIe Mini Card PCIe WLAN <sup>4</sup> PCIe WWAN Carrier Modem Bluetooth <sup>TM</sup> Ethernet Intel AMT Audio support	ethernet (RJ-2 Two PCI Expr 11a/b/g/n, PC Wireless WAN None None Bluetooth 4.0 Intel 82579L Intel Active M HD Audio, Re	45), IEEE 13 ess Mini Ca le Half Mini I upgradable wireless I Gigabit Ne anagement altek® ALC3	rd slots Card, Intelect twork Con Technolog	c, Dolby® Home Th	ector ced-N e), PH	; 1394a-20 6205, 2x2 Y, PCIe x1 ® v4 / stere	00 stand	ers, 1W x 2 /	E E G F Ir 2	hinkP mag PEAT NERO REEI OHS- nterna 4 hou	ad Ronesiur Mesiur Mes	n fram Id ratir AR® 5 RD® c iant Warra Iay¹8 to	e (one-piece ie)	t
Security Security chip Fingerprint reader Limited warranty <sup>12</sup>	Power-on pas Trusted Platfo AuthenTec fin Power On Aut	sword, hard rm Module, gerprint rea hentication,	disk pass TCG 1.2-d der on pali supports t	m rest, swipe sens the security chip	asswo	ord, securit	ty keyhol r,	e	g F p	o to C or Lei lease	)-W53 novo s go to	0 shee ervice QP-TA	cessories, ple et; e <sup>22</sup> upgrade c A sheet; ns, please vi	options,
See footnotes for m			usiness da	ay response time/	servic	ce upgrade	s" availa	DIE	W	ww.le	novo.	com/s	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++ (9-cell) 0A36303 ThinkPad Battery 28++ (9 cell, slice) <sup>43</sup> 0A36304 <sup>43</sup> 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 su using <i>ThinkPad Mini Dock Plus Series 3 w/ USB 3.0 - 17</i> . ThinkPad External Battery Charger <sup>44</sup> 40Y7625	ann 09/20/05
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 system.	
500GB 5400rpm SATA 3.0Gb/s 7mm 4K HDD <sup>41</sup> 500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD <sup>41</sup>	0A65631 <i>ann 06/05/12</i> 0A65632 <i>ann 06/05/12</i>	More information at www.lenovo.com/alldaycomputing	
1TB 5400rpm SATA 3.0Gb/s 9.5mm 4K HDD <sup>41</sup>	0A65633 ann 06/05/12	ThinkPad 170W AC Adapter for W520, W530 0A36227	ann 03/01/11
320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD <sup>41</sup> 320GB 7200rpm SATA 3.0Gb/s 7mm	0A65635 ann 06/05/12	More info at www.lenovo.com/support/poweradapters	
Self Encrypting (SED) OPAL Capable HDD <sup>41</sup> 128GB SATA 6.0Gb/s 7mm Solid State Drive <sup>41</sup>	0A65636 ann 08/21/12 0A65629 ann 06/05/12	Carrying Cases Up to 15.6" widescreen models:	
180GB SATA 6.0Gb/s 7mm Solid State Drive	0A65630 ann 06/05/12		ann 05/01/07
256GB 2.5" SATA 6.0Gb/s OPAL-capable SSD <sup>41</sup>	0A65620 ann 05/15/12		ann 05/01/07
<sup>41</sup> Can be used as the main HDD or with	4.05000° H. IIII. I		ann 05/13/08
Serial ATA Hard Drive 12.7mm Bay Adapter III (			ann 05/13/08 ann 05/13/08
USB 2.0 Portable 500GB Hard Disk	45K1690 ann 05/26/09		ann 05/13/08
USB 3.0 Secure 500GB Hard Drive USB 3.0 Secure 750GB Hard Drive	0A65619 ann 11/29/11 0A65616 ann 11/29/11	Lenovo Sport Backpack - Red 0A33896	ann 02/28/12
USB 3.0 Secure 1TB Hard Drive	0A65621 <i>ann 08/28/12</i>		ann 02/28/12
Lenovo Slim USB Portable DVD Burner	0A33988 <i>ann 06/14/11</i>		ann 02/28/12 ann 08/28/12
Wireless WAN (Mini BCI Express)		Lenovo Sport Slimcase - Blue 0B47300	ann 08/28/12
Wireless WAN (Mini PCI Express) Only WWAN upgradable models:			ann 08/28/12
ThinkPad Gobi™ 3000 Mobile Broadband	0A36185 ann 04/12/11		ann 08/28/12 ann 08/28/12
Think Dad Europaian			ann 08/28/12
ThinkPad Expansion Lenovo® Essential Notebook Stand	45J9292 ann 05/12/09	More information at www.lenovo.com/support/cases	
TP Mini Dock Plus Series 3 w/ USB 3.0 - 170W		more and manage at the state of	
Marsha and		Monitors	00/10/11
Keyboard TrackPoint Cap Collection	73P2698 ann 12/16/03	ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) <sup>69</sup> 2448MB6 ThinkVision L2251x Wide 22" (VGA, DP) 2578HB6	ann 10/20/09
Ultraslim Plus Wireless Keyboard and Mouse <sup>52</sup>	0A34032 ann 04/05/11	<sup>69</sup> DisplayPort cable is not included.	
USB Numeric Keypad Preferred Pro USB Keyboard	33L3225 ann 05/01/00 73P5220 ann 06/21/05	ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0) 1452DS6	ann 08/16/11
Enhanced Performance USB Keyboard	73P2620 ann 03/23/04	with Protective Screen Cover (USB 2.0) 1452DS6 ThinkVision LT1421 Wide 14" Mobile Monitor	aiii 00/10/11
ThinkPad USB Keyboard with TrackPoint	55Y9003 ann 08/18/09		ann 08/16/11
Lenovo® USB Fingerprint Keyboard	73P4730 ann 02/22/05	More information at www.lenovo.com/support/monitors	
Lenovo USB Smartcard Keyboard 52 Wireless via 2.4GHz technology using a micro	51J0155 <i>ann 03/24/09</i> o-size USB receiver.	www.lenovo.com/support/thinkpad/optimus-monitors	
Mouse		Monitor Accessories <sup>46</sup>	00/44/40
Lenovo Optical Mouse (USB)	06P4069 ann 05/21/03		ann 08/14/12 ann 05/17/11
Lenovo Laser Mouse (USB)	41U3074 ann 01/23/07	Mini-DisplayPort to Single-link DVI Monitor Cable 0B47090	
ThinkPad USB Laser Mouse Lenovo ScrollPoint® Mouse (USB, Optical)	57Y4635 ann 12/15/09 31P7405 ann 08/27/02	Mini-DisplayPort to DisplayPort Monitor Cable 0B47091	ann 07/24/12
ThinkPad Travel Mouse (USB, Optical)	31P7410 <i>ann 06/04/02</i>		ann 05/01/12 ann 12/29/03
ThinkPad Bluetooth Laser Mouse	0A36407 ann 06/26/12		ann 09/30/08
Lenovo Wireless Laser Mouse <sup>52</sup>	0A36188 ann 12/20/11	Lenovo Security Cable Lock 57Y4303	ann 08/24/10
Multimedia Think Pad In Far Haadphanes with microphone	57Y4488 ann 01/07/10	Lenovo Easy Reach Monitor Stand 55Y9258  46 Compatible on selected Lenovo and ThinkVision monitors	<i>ann 09/22/09</i> s.
ThinkPad In-Ear Headphones with microphone	31 14400 allii 01/0//10	More information at www.lenovo.com/support/monitoraco	essories
Modem USB 2.0 Lenovo Modem	43R1814 ann 02/26/08	For more information on accessories:	
Security	43H1814 ann 02/26/08	www.lenovo.com/accessories Purchase Lenovo accessories	
3M 15.6W Privacy Filter from Lenovo Kensington® MicroSaver® Cable Lock	0A61771 ann 04/05/11 73P2582 ann 12/29/03	www.lenovo.com/support/accessories Product specifications on Lenovo Support	
Kensington Twin Head Cable Lock Lenovo Security Cable Lock	45K1620 ann 09/30/08 57Y4303 ann 08/24/10	www.lenovo.com/accessoriesguide Option Compatibility Matrix (OCM) and accessory brochure	26
USB Gemplus GemPC Smart Card Reader	41N3040 ann 02/21/06	www.lenovoquickpick.com	
		An Options Compatibility Configurator for Lenovo systems	
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