

Lenovo® ThinkPad X230 Tablet



Lenovo ThinkPad X230 Tablet



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ThinkPad X230 Tablet (3437)

Type-motel Processor Memory Wildescreen Disk Specifical															
3437-2WG (F-3520M 4GBxt 12-5*1 HD <i>Multin</i> 720p 500G 7200 Optional Optional None Intel 8205 WWAN Jung 6 vPro 6 Pro 64 66*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD <i>Multin</i> 720p 320G 7200 Optional Optional None Intel 8205 WWAN Jung 6 vPro 6 Pro 64 66*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD <i>Multin</i> 720p 320G 7200 Optional Optional None Intel 8205 WWAN Jung 6 vPro 6 Pro 64 66*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD <i>Multin</i> 720p 320G 7200 Optional Optional None Intel 8205 WWAN Jung 6 vPro 6 Pro 64 66*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD <i>Multin</i> 720p 320G 7200 Optional Optional None Intel 8205 WWAN Jung 6 vPro 6 Pro 64 66*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD <i>Multin</i> 720p 320G 7200 Optional Optional None Intel 8205 WWAN Jung 6 vPro 6 Pro 64 66*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD <i>Multin</i> 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 6 Pro 64 66*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 6 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2WG (F-3520M 4GBxt 12-5*1 HD Out 720p 128G SSD Optional None Intel 8205 WWAN Jung 6 vPro 7 Pro 64 60*12 3437-2W	Type-model Proces		SATA	in	Ultrab	key-	Mini Card	Min	i Card	tery	Intel	GMP	Pre-	Date	
A depot repair service 3-year limited warranty Processor intel**Core** ib 3320M processor (dual-core, 2.80GHz, 2MB Case). Intel HD Craphics 4000 intel** (core**) ib 3320M processor (dual-core, 2.80GHz, 2MB Case). Intel HD Craphics 4000 intel** (core**) ib 3320M processor (dual-core, 2.80GHz, 2MB Case). Intel HD Craphics 4000 intel** (core**) ib 3320M processor (dual-core, 2.90GHz, 2MB Case). Intel HD Craphics 4000 intel Core** (core**) intel** (core**) ib 3320M processor (dual-core, 2.90GHz, 2MB Cache), intel HD Craphics 4000 intel Core** (core**) intel**	3437-2YG i7-352 3437-2WG i5-332 3437-2TG i5-332 3437-2SG i5-332 3437-2AG i5-332 3437-23G i7-352 3437-3KG i7-352	10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Out 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Out 10M 4GBx1 12.5" HD Multi 10M 4GBx1 12.5" HD Multi	720p 500G 7200 C 720p 500G 7200 C 720p 320G 7200 C 720p 320G 7200 C 720p 320G 7200 C 720p 180G SSD C 720p 320G 7200 C 720p 128G SSD C	Optional Optional Optional Optional OVD±RW Optional OVD±RW OVD±RW OVD±RW	Optional Optional Optional UltraBase Optional UltraBase UltraBase Optional	None None None None None None None	Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205 Intel 6205	WW/ WW/ WW/ WW/ WW/ WW/	AN upg	6 6 6 6 6 6 6	vPro vPro vPro vPro vPro vPro vPro vPro	G F G F G F G F G F	Pro 64 Pro 64 Pro 64 Pro 64 Pro 64 Pro 64 Pro 64	06/12 06/12 06/12 06/12 06/12 06/12 07/12	
Frocessor Intel® Core** IF-3320M processor (dual-core, 2.90GHz, 3MB Cache), Intel HD Graphics 400, DR3 memory controller (up to 1600MHz), Intel fund Boost 20; 16, 160GHz), Intel HD Graphics 400, Memory intel Core* IF-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 400, 160GHz, 160GH	3437-2ZG i5-332		•		•	None	Intel 6205	WW	AN upg	6	vPro	G F	Pro 64	07/12	
Memory 166B max* / PC3-12800 1800MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DiMM sockets Optical Optical Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Some: Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide, 7mm high Some Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide, 7mm high Some Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide, 7mm high Some Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide, 7mm high Some Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide, 7mm high Some Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide, 7mm high Some Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide, 7mm high Some Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide, 7mm high Solid State Drive (SSD) / SATA 6 OSDhs, 2.5 wide,		Intel® Core™ i5-3320M proce DDR3 memory controller (up Intel Core i7-3520M proces	essor (dual-core, 2.60 to 1600MHz), Intel Tu sor (dual-core, 2.900	urbo Boos GHz, 4MB	st 2.0 (3.30 Cache), I	GHz), ł n tel HD	HT technolog Graphics 40	y)00 ,	- Genu Profe Ready	ine V ssior to in :	Vindow nal 64	s® 7 -			
Optical Ultrabay Some: DVD burner, removable from ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 Suports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 Sume: Start Disk Drive (SSD) / SATA 3 005b; 2.5° wide, 7mm high, Active Protection System™ All: removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, upgradable, Shook Mounted Hard Drive, supports the second disk in removable, u	Memory	16GB max ⁷ / PC3-12800 160	00MHz DDR3, non-pa	ırity,	,	,,			 Resc 	ue ár		,	ГМ		
mSAIA ^M SSD None Widescreen display Uniform anti-glare display with scratch resistant Corning* Gorilla® Glass, anti-glare professor anti-glare pr	Uİtrabay SATA disk	Some: DVD burner, removal Supports Ultrabay Slim device Some: Solid State Drive (SS Some: Hard Disk Drive / SA All: removable, upgradat in optional or standar	ble from ThinkPad Ulti es in optional or standa SD) / SATA 6.0Gb/s, 2. TA 3.0Gb/s, 2.5" wide ble, Shock Mounted H	rabase Se ard ThinkF .5" wide, 7 , 7mm hig ard Drive,	Pad Ultraba 7mm high _I h, Active F	rotection	on System™		Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™						
anti-glare display with scratch resistant Corning" Gonilar "Glass, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, IPS MultiTouch: 12.5" (317.5mm) HD (1366x788) TFT color, anti-glare, LED backlight, 300 nils, 16:9 aspect ratio, 500:1 contrast ratio, IPS, MultiTouch screen supports general per A five-linger gesture All: MultiTouch screen with standard digitizer pen, pen holder in side base (right), rotate and swive hinge, power, reset, and rotation buttons on display bottom HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus Graphics Intel HD Graphics 4000 in processor; supports external analog monitor via VCA DB-15 and digital monitor via DisplayPort; supports dual independent display, Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; Meyboard TrackPoint's TrackPoint's TrackPoint's TrackPoint's TrackPoint's Touchpad TrinkLight'u Ultralasse; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm Weight' Case material Battery - Vipe Statende Battery None Mobile Intel GW77 Express Chipset Willrabasse Multicard Reader ExpressCard Smart Card Read Ports Mobile Intel GW77 Express Chipset Wireless Will Authoritication; optional external battery; up to 2.0.1 hr Mobile Intel GW77 Express Chipset Wireless Will Authoritication; optional external battery; up to 20.1 hr Mobile Intel GW77 Express Chipset Wireless Will Authoritication; optional external battery; up to 20.1 hr Mobile Intel GW77 Express Chipset Wireless Will Authoritication; optional external battery; up to 20.1 hr Mobile Intel GW77 Express Chipset Wireless Will Authoritication; optional external battery; up to 20.1 hr Mobile Intel GW77 Express Chipset Wireless Will Authoritication; optional external battery; up to 20.1 hr Mobile Intel GW77 Express Chipset Wireless Will Authoritication; optional external battery; up to 20.1 hr Mobile Intel GW77 Express Mile Capable None None None None None None None Non			HD (1366x768) TFT	color					Think	Vant	age To	ols			
Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus		anti-glàre display LED backlight, 3 1.2% reflectivity, MultiTouch: 12.5" (317.5mm) 300 nits, 16:9 as MultiTouch scree All: WideView (170° view write on screen with	with scratch resistan on nits, 16:9 aspect ramultiple anti-reflectivity HD (1366x768) TFT pect ratio, 500:1 control on supports pen & five wing), anti-reflective and standard digitizer;	atio, 500:1 ty layers, I color, and rast ratio, I finger geand anti-gla pen, pen I	contrast rates to the state of	atio, D back ve coat de base	ings, e (right),		models) ThinkVantage System Update Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate						
supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DWI-D via cable 45J7915) Keyboard TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar ⁴ , magnifying glass UltraNary", buttonless touchpad below keyboard, Tap Zones, multi-touch None Dimensions ⁵ without UltraBase: 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.07 ib (1.80kg) Case material Display cover: Magnesium + PCABS; Bottom: Magnesium alloy 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm 3-cell: from 3.07 ib (1.80kg) Eattery - life 3-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery sa 2nd battery None None Mobile Intel QMT Express Chipset 5-cell plus external battery: up to 20.1 hr Chipset Ultrabase Multicard Reader 4-in-1 reader (SD, DSDHC, SDXC, MMC) One slot (ExpressCard/34, ExpressCard/54) Smart Card Reader None Ports PCIe Wilan High Teader (SD, DSHC, SDXC, MMC) PCIe Mini Card PCIe Wilan None PCIE Wilan None None PCIE Wilan Bulletooth 4.0 wireless Bluetooth Modem None Bluetooth Modem Bluetooth Modem None Bluetooth Bluetooth Modem Intel ABT None None Bluetooth Modem Die High Definition (HD) Judio, Realteke, ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Fingerprint reader (Right base of display), used in tablet/notebook mode, LED indicator, Power On Authentication, supports the security chip		HD720p resolution, wide view	w angle, low light sens												
ThinkLight™ None Dimensions³ without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm Weight² 3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Case material Battery - life¹⁰ Display cover: Magnesium + PCABS; Bottom: Magnesium alloy Extended Battery Extended Battery Battery - life¹⁰ S-cell (30Whr): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr Chipset Ultrabase Ultrabase Wholie Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) Multicard Reader Ports Mobile Intel QM77 Express Chipset Some: ThinkPad Ultrabase Series 3 (see right side) Mone Ports Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) PCle Mini Card PCle WLAN¹ Intel ACTION None None Modem Bluetooth¹™ Bluetooth¹™ Bluetooth¹™ Bluetooth¹™ Bluetooth¹™ Audio support High Definition (HD) Audio, Realtek² ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, supe	Keyboard TrackPoint®	supports external analog mo supports dual independent d <i>Maximum external resolutior</i> 2048x1536 (VGA) @75Hz; 19 6-row, 84-key, ThinkVantage TrackPoint pointing device, "If	nitor via VGA DB-15 a lisplay; n: 2560x1600 (Display g20x1200@60Hz (sin button, spill-resistant, Press-to-Select," Inter	yPort)@60 gle-link D\ , multimed net Scroll	OHz; VI-D via ca lia Fn keys Bar ¹³ , mag	ble 45J , option gnifying	7915) al LED backl	ight							
Dimensions ³ without UltraBase; 3-cell: form 3.9 lb (1.80kg); 6-cell: form 3.9 lb (1.80kg); 6-			pad below keyboard, 1	Tap Zones	s, multi-tou	ch		_	Sunnor	ts Th	inkVan	tane®	techno	logies	
Chipset Ultrabase Some: ThinkPad Ultrabase Series 3 (see right side) Multicard Reader ExpressCard Smart Card Read Ports PCIe Mini Card PCIe WLAN¹ SIM card None None Bluetooth™ Bluetooth 4.0 wireless Ethernet Intel AMT Audio support Audio support Fringerprint reader AuthenTec fingerprint reader Fringerprint reader Fringerprint reader Fringerprint reader Chipset Some: ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side Other features: Power button (front) Security key lock, security keyhole security key lock, security keyhole Analog VGA DB-15 monitor port SisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g 65-watt AC Adapter EPEATI™ Gold rating ENERGY STAR® 5.0-compliant Fingerprint reader Fringer print r	Weight ² Case material Battery - type Extended Battery	3-cell: from 3.67 lb (1.66kg); Display cover: Magnesium Li-Polymer 3-cell or Li-lon 6-c None 3-cell (30Whr): up to 4.7 hr;	; 6-cell: from 3.97 + PCABS; Bottor cell, HW Authenticatio 6-cell (66Whr): up to	lb (1.80kç m: Magn on; optiona 9.9 hr;	g) nesium allo al external	y battery	as 2nd batte	ry	• Provide cable X230	nkPa des d man Table con	d Ultra lesktop ageme et nects to	expaint for	Series nsion a X230 a ottomo	s 3 and and fthe	
PCIe Mini Card PCIe WLAN⁴ PCIe WLAN⁴ PCIe WLAN⁴ PCIe WWAN SIM card None None Modem Sluetooth¹™ Audio support Intel AMT Audio support Audio support Security Power-on password, hard disk password, supervisor password, security chip Fingerprint reader Fingerprint reader 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 None None Bluetooth 4.0 wireless Ethernet Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel AMT Audio support Fingerprint reader None None Bluetooth 4.0 wireless Ethernet Intel Active Management Technology (iAMT) Audio support Fingerprint reader None None Bluetooth 4.0 wireless Ethernet Intel Active Management Technology (iAMT) Audio support Fingerprint reader None None Bluetooth 4.0 wireless Fingerprint rechnology (iAMT) Audio support Fingerprint reader None None Bluetooth 4.0 wireless Fingerprint rechnology (iAMT) Audio support Fingerprint reader None None Bluetooth 4.0 wireless Fingerprint rechnology (iAMT) Fingerprint reader None None Bluetooth 4.0 wireless Fingerprint rechnology (iAMT) Fingerprint reader None None Bluetooth 4.0 wireless Fingerprint rechnology (iAMT) Fingerprint rechnology (iAMT) Fingerprint reader None None Bluetooth 4.0 wireless Fingerprint rechnology (iAMT) Fingerprint rechnology (iAMT) Fingerprint reader None None Bluetooth 4.0 wireless Fingerprint rechnology (iAMT) Fingerprint rechnology (iAMT) Fingerprint reader None None Bluetooth 4.0 wireless Fingerprint (RJ-45) port Fingerprint (RJ-45	Ultrabase Multicard Reader ExpressCard Smart Card Read	Mobile Intel QM77 Express Some: ThinkPad Ultrabase: 4-in-1 reader (SD, SDHC, SE One slot (ExpressCard/34, E None Two USB 3.0, one powered U	Chipset Series 3 (see right sid DXC, MMC) ExpressCard/54) USB 2.0,	le)	,	p 10 20			Converts ThinkPad to a two-spind system with optional Ultrabay Slim accessories in right side Other features: Power button (front) Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone ou Requires 65W or 90W AC adapter						
Intel AMT Audio support Audio support High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array microphone, combo audio/mic jack Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant Fingerprint reader AuthenTec fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power On Authentication, supports the security chip 65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant International Warranty Service¹ 24 hour x 7 day¹® toll-free support	PCIe WLAN⁴ PCIe WWAN SIM card Modem Bluetooth™	Two PCI Express Mini Card s 11a/b/g/n, PCIe Half Mini Ca Wireless WAN upgradable None None Bluetooth 4.0 wireless	slots rd, Intel Centrino® Adv	vanced-N	6205, 2x2										
	Intel AMT Audio support Security Security chip	Intel Active Management Tec High Definition (HD) Audio, F volume up, down, mute butto Power-on password, hard dis Trusted Platform Module, TC AuthenTec fingerprint reader	chnology (iAMT) Realtek® ALC3202 coc obstance dual array microph sk password, supervis G 1.2-compliant (right base of display	dec / stere hone, com sor passwo r), used in	eo speaker bo audio/r ord, securit tablet/note	nic jack y keyho	ole		65-watt EPEAT ENERG GREEN ROHS- Internat	AC A M Go AY ST IGUA comp ional	Adapter Id ratin IAR® 5. ARD® ce Dliant Warra	g .0-con ertified nty Se	d [*] ervice ¹⁷		
See feetbates for more detailed information		• , , ,	repair service / service	e upgrades	s ²² availabl	е							riod ¹²		

ThinkPad X230 Tablet (3438) - Onsite

Tuno-model Proces	Widescreen	Disk SATA	Optical in UltraBase	ThinkPad Ultrabase Series 3	Backlit key-	PCIe Mini Card WLAN	PCle Mini Car WWAN			Intel	GMP ²	
Type-model Proces	sor Memory display 0M 4GBx1 12.5" HD <i>Mult</i> .	GB ⁸ rpm 320G 7200		UltraBase	None	Intel 6205 ²⁸			6			(mm/yy) 06/12
	0M 4GBx1 12.5" HD <i>Mult</i>			Optional	None	Intel 6205		ipg None	6			06/12
	0M 4GBx1 12.5" HD <i>Mult</i>			Optional		Intel 6205	Ericsson			vPro		06/12
	0M 4GBx1 12.5" HD <i>Mult</i>			Optional		Intel 6205	Ericsson			vPro	C D	06/12
	0M	320G 7200		Optional Optional	None None	Intel 6205 Intel 6205		ipg None ipg None	6			06/12 06/12
	OM 4GBx1 12.5" HD <i>Mult</i>			Optional	None	Intel 6205		ipg None	6			06/12
	0M 4GBx1 12.5" HD <i>Mult</i>			Optional	None	Intel 6205		ipg None	6			06/12
	OM 4GBx1 12.5" HD <i>Mult</i>			UltraBase		Intel 6205 Intel 6205		ipg None	6			06/12 06/12
Positioning	OM 4GBx1 12.5" HD Out Convertible tablet ultraporta	320G 7200		Ulliabase	None	111161 6203	VVVVAIN	ipg None Preloaded o				
Processor	Intel® Core™ i5-3320M proc DDR3 memory controller (u Intel Core i7-3520M proce DDR3 memory controller (u	essor (dual-co to 1600MHz) ssor (dual-co	ore, 2.60Gh), Intel Turbo e, 2.90GH	Boost 2.0 4MB Cac	(3.30GH he) , Inte	lz), HT techr I HD Graphi	nology cs 4000,	- Genuine W Profession Ready to ins some listed)	indov al 64	vs® 7		
Memory	16GB max ⁷ / PC3-12800 16 dual-channel capable, two 2	00MHz DDR3 04-pin SO-DIN	, non-parity ИМ sockets					Rescue anPassword			М	
Optical Ultrabay	Some: DVD burner, remove Supports Ultrabay Slim device					Series 2 (0)	733030/	Preloaded a	pplica	ations ¹	14 (only	y some
SATA disk	Some: Solid State Drive (S Some: Hard Disk Drive / S. All: removable, upgrada in optional or standa	SD) / SATA 6.0 ATA 3.0Gb/s, 2 ble, Shock Mo)Gb/s, 2.5" .5" wide, 7r unted Hard	wide, 7mm nm high, Ac Drive, supp	high tive Pro	tection Syste	em™	 Norton™ Ir (30 days o Access Co ThinkVanta 	f virus nnect	definit ions™	tions)	
mSATA™ SSD	None							 ThinkVanta 	ige To	ols	Ū	
Widescreen display	Outdoor: 12.5" (317.5mm anti-glare displa LED backlight, \$ 1.2% reflectivity MultiTouch: 12.5" (317.5mm 300 nits, 16:9 a	y with scratch 300 nits, 16:9 a multiple anti-r) HD (1366x7 0	resistant Co aspect ratio, reflectivity la 68) TFT col	orning® Gor 500:1 cont ayers, IPS or, anti-gla	rast ratio	Ο,		 Fingerprint models) ThinkVanta Adobe® Re Microsoft® purchase a 	ige Sy ader Office	ystem l	Updat aded;	e
	All: MultiTouch scre WideView (170° vie write on screen wit	en supports pe wing), anti-refl h standard di	en & five-fin ective and a gitizer pen	ger gesture anti-glare pr , pen holde	otective r in side	base (right),		 Skype™ fo 				
Camera	rotate and swivel h	w angle, low li					l					
Graphics	Intel HD Graphics 4000 in supports external analog m supports dual independent Maximum external resolutio 2048x1536 (VGA)@75Hz; 1	onitor via VGA display; n: 2560x1600	(DisplayPo	rt)@60Hz;								
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, 84-key, ThinkVantage TrackPoint pointing device, UltraNav™, buttonless touch None	button, spill-re Press-to-Sele	esistant, mu ct," Internet	ultimedia Fn Scroll Bar ¹⁵	keys, o , magni	ptional LED b	oacklight					
Dimensions ³ Weight ² Case material Battery - type	without UltraBase; 3-cell: 3-cell: from 3.67 lb (1.66kg Display cover: Magnesium Li-Polymer 3-cell or Li-lon 6	; 6-cell: fro + PCABS;	om 3.97 lb Bottom:	(1.80kg) Magnesiur	n alloy		nattery	Supporto Thi	nk\/or	otogo® :	toobn	ologica
Extended Battery	None	•		•	Jiliai bai	itery as zna i	Janciy	Supports Thi				
Battery - life ¹⁰	3-cell (30Whr): up to 4.7 hr; external battery (64Whr): up				<i>ery:</i> up t	o 20.1 hr		ThinkPaProvides d	esktop	expar	nsion	and
Chipset Ultrabase Multicard Reader ExpressCard Smart Card Read Ports	Two USB 3.0, one powered external monitor (VGA DB-1	Series 3 (see DXC, MMC) ExpressCard/5 USB 2.0, 5, DisplayPort	4)	(RJ-45)				 cable mana X230 Table Easily conr X230 or X2 Converts T system with accessorie 	t ects to 30 Ta hinkP n options in rig	othe bo blet for ad to a onal Ul	ottom of trave two-s trabay	of the lling spindle
PCIe Mini Card PCIe WLAN ⁴ PCIe WWAN	Two PCI Express Mini Card 11a/b/g/n, PCIe Half Mini Ci Some: Wireless WAN upgr Some: Wireless WAN, Eric GPRS/WCDMA/HS	ard, Intel Centr adable sson® F5521gv	v Mobile Br			Cle Mini Card	d,	Other featurePower butteSecurity keAnalog VGDisplayPor	on (fro y lock A DB-	i, secui 15 mo	nitor p	ort
SIM card Modem	Some: User selectable, cor None			e provider				DVI-D via cFour USB 2Gigabit eth	2.0 pc	rts	,	
Bluetooth™ Ethernet	Bluetooth 4.0 wireless Intel 82579LM Gigabit Netw	ork Connactio	n (Lewisvilla	2) DHV D○	اء v1			 Microphone 	e in ai	nd head	dohor	ne out
Intel AMT Audio support	Intel Active Management Te High Definition (HD) Audio,	chnology (iAM	T)`	,,		1 watt x 2 /		Requires 61.39 lb; 630	5W o	90W /	AC ad	lapter
Security Security chip Fingerprint reader	volume up, down, mute butt Power-on password, hard d Trusted Platform Module, To AuthenTec fingerprint reade LED indicator, Power On Au	ons / dual array sk password, s CG 1.2-complia r (right base of thentication, s	microphon supervisor pant files display), uupports the	e, combo a bassword, s sed in table security ch	udio/mic ecurity k t/notebo ip	jack keyhole ok mode,		65-watt AC A EPEAT™ Go ENERGY ST GREENGUA ROHS-comp	d ratii AR® 5 RD® c iant	ng 5.0-com certified	d.	
Limited warranty ¹²	3-years /1-year battery, limi public and national holidays day for service dispatch / se	. Calls received	d after 3 pm	n - 5 pm, M n will require	on - Fri d e an add	coverage exc tional next bu	usiness	International 24 hour x 7 c during the	ay18 to	oll-free	supp	ort

ThinkPad X230 Tablet (3438) - Onsite - II

Type-model Processor Memo	Widescreen ry display	Disk SATA GB [®] rpm	Optical in UltraBase	ThinkPad Ultrabase Series 3	Backlit key- board	PCle Mini Card WLAN	PCIe Mini Card WWAN		Intel		- /	Ann Date (mm/yy)
3438-3SG i5-3320M 4GB)	1 12.5" HD <i>Out</i>	128G SSD	Optional	Optional	None	Intel 6205 ²⁸	WWAN upg	6	vPro	GΡ	Pro 64	07/12
3438-2RG i7-3520M 4GB)	1 12.5" HD Multi	128G SSD	Optional	Optional	None	Intel 6205	WWAN upg	6	vPro	GΡ	Pro 64	07/12

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

Memory Optical Ultrabay SATA disk	Convertible tablet ultraportable; one spindle Intel® Core™ i5-3320M processor (dual-core, 2.60GHz, 3MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology Intel Core i7-3520M processor (dual-core, 2.90GHz, 4MB Cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology 16GB max² / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets Option for ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications¹⁴ (only some listed) • Rescue and Recovery™ • Password Manager Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2012 (30 days of virus definitions) • Access Connections™
Optical Ultrabay SATA disk	dual-channel capable, two 204-pin SO-DIMM sockets Option for ThinkPad Ultrabase Series 3 Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	 Rescue and Recovery[™] Password Manager Preloaded applications¹⁴ (only some listed) Norton[™] Internet Security 2012 (30 days of virus definitions)
Uİtrabay SATA disk	Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932) Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3	listed) • Norton™ Internet Security 2012 (30 days of virus definitions)
	Name	 ThinkVantage Power Manager
mSATA™ SSD	None	ThinkVantage Tools
display	Outdoor: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare display with scratch resistant Corning® Gorilla® Glass, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, 1.2% reflectivity, multiple anti-reflectivity layers, IPS MultiTouch: 12.5" (317.5mm) HD (1366x768) TFT color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, MultiTouch screen supports pen & five-finger gesture All: WideView (170° viewing), anti-reflective and anti-glare protective coatings, write on screen with standard digitizer pen, pen holder in side base (right), rotate and swivel hinge, power, reset, and rotation buttons on display bottom	 Fingerprint Software (fingerprint models) ThinkVantage System Update Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Skype™ for Windows
	HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus	
	Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via DisplayPort; supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915)	
TrackPoint® Touchpad	6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, buttonless touchpad below keyboard, Tap Zones, multi-touch None	
Dimensions ³	without UltraBase; 3-cell: 12.0" x 9.0" x 1.1-1.23"; 305mm x 228.7mm x 27-31.3mm	
Weight ² Case material	3-cell: from 3.67 lb (1.66kg); 6-cell: from 3.97 lb (1.80kg) Display cover: Magnesium + PCABS; Bottom: Magnesium alloy	Supports ThinkVantage® technologies
	Li-Polymer 3-cell or Li-lon 6-cell, HW Authentication; optional external battery as 2nd battery	ThinkPad Ultrabase Series 3
Battery - life ¹⁰	None 3-cell (30Whr): up to 4.7 hr; 6-cell (66Whr): up to 9.9 hr; external battery (64Whr): up to 10.2 hr; 6-cell plus external battery: up to 20.1 hr	 Provides desktop expansion and cable management for X230 and X230 Tablet
Ultrabase Multicard Reader ExpressCard Smart Card Read		 Easily connects to the bottom of the X230 or X230 Tablet for traveling Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side
	Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	Other features: • Power button (front) • Security key look, accurity key hole
PCIe WLAN⁴ PCIe WWAN SIM card Modem Bluetooth™ Ethernet Intel AMT Audio support	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None None Bluetooth 4.0 wireless Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Realtek® ALC3202 codec / stereo speakers, 1 watt x 2 /	 Security key lock, security keyhole Analog VGA DB-15 monitor port DisplayPort (supports single-link DVI-D via cable 45J7915) Four USB 2.0 ports Gigabit ethernet (RJ-45) port Microphone in and headphone out Requires 65W or 90W AC adapter 1.39 lb; 630g
Security Security chip Fingerprint reader	volume up, down, mute buttons / dual array microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant AuthenTec fingerprint reader (right base of display), used in tablet/notebook mode, LED indicator, Power On Authentication, supports the security chip	65-watt AC Adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant GREENGUARD® certified ROHS-compliant
•	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