

# ThinkPad X250 Platform Specifications

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i3 / i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader																			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																		
	i5-4300U	2	4	1.9 GHz	2.9 GHz	3MB	DDR3L-1600	Intel HD graphics 4400	Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector																		
	i3-5010U			2.1 GHz	-	3MB		Intel HD Graphics 5500	Camera ( <i>optional</i> )	HD720p resolution, low light sensitive, fixed focus																		
	i5-5200U			2.2 GHz	2.7 GHz	3MB			Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack																		
	i5-5300U			2.3 GHz	2.9 GHz	3MB			Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																		
i7-5600U	2.6 GHz			3.2 GHz	4MB	Security			Power-on password, hard disk password, supervisor password, security keyhole																			
Graphics	Intel HD Graphics 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)								Security chip ThinkEngine	Discrete TPM 1.2, TCG Certified Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures																		
Chipset	Intel SoC (System on Chip) platform								vPro ( <i>optional</i> )	Intel vPro Technology																		
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket								Fingerprint reader	<i>Optional</i> : Fingerprint reader on the keyboard bezel, swipe sensor																		
Display	<i>Some</i> : 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some</i> : 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS <i>Some</i> : 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								Internal battery	<i>Optional</i> : Integrated Li-Ion or Li-Polymer 3-cell (23Wh)																		
Multi-touch ( <i>opt</i> )	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)																		
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory								Max battery life <sup>10</sup>	<table><tr><th>Models</th><th>No + 3-cell</th><th>3-cell + 3-cell</th><th>3-cell + 6-cell 48Wh</th><th>3-cell + 6-cell 72Wh</th></tr><tr><td>Battery life</td><td>5.2 hr</td><td>10.7 hr</td><td>16.0 hr</td><td>21.4 hr</td></tr></table>					Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	Battery life	5.2 hr	10.7 hr	16.0 hr	21.4 hr				
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M.2 SSD ( <i>opt</i> )	M.2 Solid State Drive (SSD), via M.2 card slot								AC adapter	45W AC adapter																		
Optical	None								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Vantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions)																		
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I218-V (Clarkville) <i>vPro model</i> : Intel Ethernet Connection I218-LM (Clarkville)								<i>Some</i> : Windows 8.1 64-bit <i>Some</i> : Windows 8.1 Pro 64-bit <i>Some</i> : Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)																			
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Limited warranty <sup>12</sup> <i>One of the following, configurable by model</i> : • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service <sup>24</sup> • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)																			
WLAN <sup>4</sup>	<i>One of the following, configurable by model</i> : • 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card								Mil-Spec test																			
WWAN ( <i>optional</i> )	<i>One of the following, configurable by model</i> : • Wireless WAN upgradable • Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card								Environment																			
SIM card ( <i>opt</i> )	AT&T® or Verizon® LTE (4G), contract required with service provider								EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant																			
Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm																											
Weight <sup>2</sup>	<table><tr><th>Models</th><th>No + 3-cell</th><th>3-cell + 3-cell</th><th>No + 6-cell</th><th>3-cell + 6-cell</th></tr><tr><td>Non-touch</td><td>2.88 lb / 1.31 kg</td><td>3.13 lb / 1.42 kg</td><td>3.23 lb / 1.47 kg</td><td>3.48 lb / 1.58 kg</td></tr><tr><td>Multi-touch</td><td>-</td><td>3.29 lb / 1.49 kg</td><td>-</td><td>3.64 lb / 1.65 kg</td></tr></table>								Models	No + 3-cell	3-cell + 3-cell	No + 6-cell	3-cell + 6-cell	Non-touch	2.88 lb / 1.31 kg	3.13 lb / 1.42 kg	3.23 lb / 1.47 kg	3.48 lb / 1.58 kg	Multi-touch	-	3.29 lb / 1.49 kg	-	3.64 lb / 1.65 kg					
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Case material	Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic																											

Model	20CM004T++
Product	ThinkPad X250
Region	WE
Machine Type	20CM
TopSeller	TopSeller
Processor	Core i7-5600U (2C, 2.6 / 3.2GHz, 4MB)
vPro	vPro
Graphics	Integrated Intel HD Graphics 5500
Memory	8GBx1
Display	12.5" HD (1366x768) IPS
Multi-touch	None
Storage	256GB SSD Opal2
M.2 SSD	None
Optical	None
WLAN + Bluetooth	Intel 7265 ac, 2x2 + BT4.0
WWAN	Sierra EM7345
SIM Card	None
Smart Card Reader	Smart Card Reader
Camera	720p
Keyboard	Backlit
Fingerprint Reader	Fingerprint Reader
Battery	3-cell (23Wh) + 3-cell (23Wh)
Power Adapter	45W
Operating System	Windows 10 DG Windows 7 Pro 64
Warranty	3-year, Onsite
Global	No
Ann Date (mm/yy)	08/15



