

# 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 Speed	Processor Graphics	Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)																			
	i3-5010U	2	4	2.1 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 5500	Ports	Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector																			
	i5-5200U			2.2 GHz	2.7 GHz	3MB			Camera ( <i>optional</i> )	HD720p resolution, low light sensitive, fixed focus																			
	i5-5300U			2.3 GHz	2.9 GHz	3MB			Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack																			
i7-5600U	2.6 GHz			3.2 GHz	4MB	Keyboard			6-row, spill-resistant, multimedia Fn keys, optional LED backlight																				
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)								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch																			
Chipset	Intel SoC (System on Chip) platform								Security	Power-on password, hard disk password, supervisor password, security keyhole																			
Memory	16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket								Security chip	Trusted Platform Module, TCG 1.2-compliant																			
Display	<i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio								ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures																			
	<i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								vPro ( <i>optional</i> )	Intel vPro Technology																			
	<i>Some:</i> 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS								Fingerprint reader	<i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor																			
Multi-touch ( <i>opt</i> )	Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits								Internal battery	<i>Optional:</i> Integrated Li-Ion or Li-Polymer 3-cell (23Wh)																			
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)																			
	<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™								Max battery life <sup>10</sup>	<table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </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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	<i>Some:</i> SSHD with 8GB NAND flash memory								AC adapter	45W AC adapter																			
M.2 SSD ( <i>opt</i> )	M.2 Solid State Drive (SSD), via M.2 card slot								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <ul style="list-style-type: none"> <li>Lenovo Solution Center</li> <li>Lenovo SHAREit</li> <li>Lenovo Companion</li> <li>ThinkVantage Product Recovery</li> <li>Rescue and Recovery™</li> <li>ThinkVantage System Update</li> <li>PC Device Stage</li> <li>Adobe® Reader®</li> <li>Microsoft® Office preloaded; purchase a product key to activate</li> <li>Norton™ Internet Security (30 days of virus definitions)</li> </ul>																			
Optical	None									<i>Some:</i> Windows 8.1 64-bit																			
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville)									<ul style="list-style-type: none"> <li>Lenovo Solution Center</li> <li>Lenovo SHAREit</li> <li>Lenovo Companion</li> <li>ThinkVantage System Update</li> <li>PC Device Stage</li> <li>Norton Studio</li> <li>Microsoft Office preloaded; purchase a product key to activate</li> <li>Norton Internet Security (30 days of virus definitions)</li> </ul>																			
	<i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)																												
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																												
WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i>																												
	<ul style="list-style-type: none"> <li>11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li> <li>11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li> <li>11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li> <li>11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li> </ul>																												
WWAN ( <i>optional</i> )	<i>One of the following, configurable by model:</i>								Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i>																			
	<ul style="list-style-type: none"> <li>Wireless WAN upgradable</li> <li>Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card</li> <li>Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card</li> </ul>									<ul style="list-style-type: none"> <li>1-year depot repair service</li> <li>3-year/1-yr battery depot repair service</li> <li>3-year/1-yr battery limited onsite service<sup>24</sup></li> <li>3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)</li> </ul>																			
SIM card ( <i>opt</i> )	AT&T® or Verizon® LTE (4G), contract required with service provider								Mil-Spec test	MIL-STD-810G military certification																			
Dimensions <sup>3</sup>	12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm								Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant																			
	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 border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </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	<i>Display cover:</i> Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);																												
	<i>Bottom:</i> Glass-Fiber Reinforced Plastic																												

