

# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i5 / i7 Processor							Media reader	None			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector		
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500	Monitor cable	<i>Optional:</i> Mini DisplayPort to VGA Monitor Cable		
	i5-5300U			2.3 GHz	2.9 GHz	3MB						
	i7-5500U			2.4 GHz	3 GHz	4MB						
i7-5600U	2.6 GHz			3.2 GHz	4MB							
Camera	HD720p resolution, low light sensitive, fixed focus, gesture input											
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack											
Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys											
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch											
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch											
Security chip	Trusted Platform Module, TCG 1.2-compliant											
ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures											
vPro (optional)	Intel vPro Technology											
Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor											
Graphics	Intel HD Graphics 5500 in processor, external digital monitor support via Mini DisplayPort or HDMI™ (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable); supports three independent displays; Max resolution: 3840x2160 (Mini DisplayPort) @60Hz; 4096x2304 (HDMI) @24Hz											
Chipset	Intel SoC (System on Chip) platform											
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets											
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS, 170° viewing angle											
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits											
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)											
Optical	None											
Ethernet	Gigabit Ethernet via Ethernet extension cable											
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, 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 (optional)	<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>											
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider											
Dimensions <sup>3</sup>	<b>WQHD (WxDxH):</b> 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm <b>FHD (WxDxH):</b> 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm <b>WQHD Touch (WxDxH):</b> 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm											
Weight <sup>2</sup>	<i>Models</i>			<i>FHD</i>			<i>WQHD</i>			<i>WQHD Touch</i>		
	<i>Weight</i>			2.996 lb / 1.359 kg			2.877 lb / 1.305 kg			3.175 lb / 1.44 kg		
Case material	<i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum											
Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery											
Max battery life <sup>10</sup>	<i>Models</i>			<i>FHD</i>			<i>WQHD</i>			<i>WQHD Touch</i>		
	<i>Battery life</i>			10.9 hr			9.9 hr			9.9 hr		
	<i>AC adapter</i>			<i>45W</i>			<i>65W Slim</i>			<i>65W</i>		
	<i>Charge to 80%</i>			1.1hr			55min			55min		
<i>Charge to 100%</i>			2.5hr			2.3hr			2.3hr			
AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter											
RapidCharge												
Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> <li>• Lenovo Solution Center</li> <li>• Lenovo SHAREit</li> <li>• Lenovo SHAREit</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>											
Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> <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>											
Mil-Spec test	MIL-STD-810G military certification											
Environment	EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant											