

# ThinkPad X1 Carbon (4<sup>th</sup> Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Media reader Ports WiGig dock (opt) Adapter (optional)	MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter												
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics														
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD graphics 520														
	i5-6300U			2.4 GHz	3.0 GHz	3MB																
	i7-6500U			2.5 GHz	3.1 GHz	4MB																
i7-6600U	2.6 GHz			3.4 GHz	4MB																	
Graphics	Intel HD Graphics 520 in processor, external digital monitor support via Mini DisplayPort or HDMI™; supports three independent displays; Max resolution: 3840x2160 (Mini DisplayPort)@60Hz; 4096x2304 (HDMI)@24Hz								Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack												
Chipset Memory	Intel SoC (System on Chip) platform 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch												
Display	Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle								Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch												
Multi-touch Hinge	None Normal hinge, 180 degree								Security chip ThinkEngine	Discrete TPM 1.2 TCG Certified and Firmware TPM 2.0 integrated in chipset Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures												
Storage	Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)								vPro (optional) Fingerprint reader	Intel vPro Technology Touch style fingerprint reader on the palm rest												
Optical	None								Battery Max battery life <sup>10</sup>	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery MobileMark® 2014: 11 hr												
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter (by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))								AC adapter RapidCharge	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter												
WLAN <sup>4</sup>	One of the following, configurable by model (WiGig is mutually exclusive with WWAN): • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card • WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card								<table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>Not support</td> <td>1.0 hr</td> <td>1.0 hr</td> </tr> <tr> <td>Charge to 100%</td> <td>Not support</td> <td>2.5 hr</td> <td>2.5 hr</td> </tr> </tbody> </table>		AC adapter	45W	65W Slim	65W	Charge to 80%	Not support	1.0 hr	1.0 hr	Charge to 100%	Not support	2.5 hr	2.5 hr
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Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial)												
WWAN (optional)	One of the following, configurable by model (mutually exclusive with WiGig): • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)								<ul style="list-style-type: none"> <li>• ThinkVantage Product Recovery</li> <li>• Rescue and Recovery™</li> <li>• ThinkVantage System Update</li> <li>• Adobe® Reader®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• McAfee® LiveSafe™ (30-day trial)</li> </ul>													
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								Limited warranty <sup>12</sup>	One of the following, configurable by model: • 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)												
Dimensions <sup>3</sup> Weight <sup>2</sup> Case material	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm from 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium								Mil-Spec test	MIL-STD-810G military certification												
Environment									EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant													

<b>Model</b>	<b>20FB004JUS</b>
Product	ThinkPad X1 Carbon (4th Gen)
Region	US
Machine Type	20FB
TopSeller	TopSeller
Processor	Core i5-6300U (2C, 2.4 / 3.0GHz, 3MB)
vPro	vPro
Graphics	Integrated Intel HD Graphics 520
Memory	8GB Soldered
Display	14" FHD (1920x1080) IPS
Multi-touch	None
Storage	256GB SSD M.2 Opal2
Optical	None
WLAN + Bluetooth	Intel 8260 ac, 2x2 + BT4.1
WWAN	WWAN Upgradable
SIM Card	None
Adapter	None
Dock	None
Camera	720p
Keyboard	Backlit
Fingerprint Reader	Fingerprint Reader
Battery	4-cell (52Wh)
Power Adapter	65W
Operating System	Windows 10 DG Windows 7 Pro 64
Warranty	3-year, Depot
Global	No
Ann Date (mm/yy)	02/16



