

ThinkPad X1 Carbon (4th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor																							
	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																							
Chipset	Intel SoC (System on Chip) platform																							
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets																							
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle <i>Some:</i> 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																							
Multi-touch	None																							
Hinge	Normal hinge, 180 degree																							
Storage	<i>Some:</i> M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) <i>Some:</i> M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe)																							
Optical	None																							
Ethernet	Gigabit Ethernet via optional Ethernet (RJ-45) adapter (by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro))																							
WLAN ⁴	<i>One of the following, configurable by model (WiGig is mutually exclusive with WWAN):</i> • 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																							
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter																							
WWAN (optional)	<i>One of the following, configurable by model (mutually exclusive with WiGig):</i> • 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)																							
SIM card (opt)	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card																							
Dimensions ³	WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm																							
Weight ²	Starting at 2.579 lb / 1.17 kg																							
Case material	Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium																							
Media reader	MicroSD card reader, supports UHS-II microSD card																							
Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector																							
WiGig dock (opt)	WiGig dock, mutually exclusive with WWAN																							
Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Cable																							
Adapter (optional)	mDP to VGA: Lenovo Mini DisplayPort to VGA Monitor Cable																							
	OneLink+ to RJ45: ThinkPad OneLink+ to RJ45 adapter																							
	OneLink+ to VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter																							
Camera	HD720p resolution, low light sensitive, fixed focus																							
Audio support	HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack																							
Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight																							
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	Discrete TPM 1.2 TCG Certified and Firmware TPM 2.0 integrated in chipset																							
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	Touch style fingerprint reader on the palm rest																							
Battery	Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery																							
Max battery life ¹⁰	MobileMark® 2014: 11 hr																							
AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter																							
RapidCharge	<table><tr><td>AC adapter</td><td>45W</td><td>65W Slim</td><td>65W</td></tr><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></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				
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																					
Preload	<table><tr><td>Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64</td><td>Windows 10 Pro 64</td></tr><tr><td>• Lenovo Solution Center</td><td>• Lenovo Solution Center</td></tr><tr><td>• ThinkVantage Product Recovery</td><td>• Lenovo Companion</td></tr><tr><td>• Rescue and Recovery™</td><td>• Lenovo Setting</td></tr><tr><td>• ThinkVantage System Update</td><td>• Microsoft Office preloaded; purchase a product key to activate</td></tr><tr><td>• Adobe® Reader®</td><td>• McAfee® LiveSafe™ (30-day trial)</td></tr><tr><td>• Microsoft® Office preloaded; purchase a product key to activate</td><td></td></tr><tr><td>• McAfee® LiveSafe™ (30-day trial)</td><td></td></tr></table>								Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Windows 10 Pro 64	• Lenovo Solution Center	• Lenovo Solution Center	• ThinkVantage Product Recovery	• Lenovo Companion	• Rescue and Recovery™	• Lenovo Setting	• ThinkVantage System Update	• Microsoft Office preloaded; purchase a product key to activate	• Adobe® Reader®	• McAfee® LiveSafe™ (30-day trial)	• Microsoft® Office preloaded; purchase a product key to activate		• McAfee® LiveSafe™ (30-day trial)	
Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Windows 10 Pro 64																							
• Lenovo Solution Center	• Lenovo Solution Center																							
• ThinkVantage Product Recovery	• Lenovo Companion																							
• Rescue and Recovery™	• Lenovo Setting																							
• ThinkVantage System Update	• Microsoft Office preloaded; purchase a product key to activate																							
• Adobe® Reader®	• McAfee® LiveSafe™ (30-day trial)																							
• Microsoft® Office preloaded; purchase a product key to activate																								
• McAfee® LiveSafe™ (30-day trial)																								
Limited warranty ¹²	<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 service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)																							
Mil-Spec test	MIL-STD-810G military certification																							
Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant																							

Model	20FC0039++
Product	ThinkPad X1 Carbon (4th Gen)
Region	EMEA
Machine Type	20FC
TopSeller	No
Processor	Core i7-6600U (2C, 2.6 / 3.4GHz, 4MB)
vPro	vPro
Graphics	Integrated Intel HD Graphics 520
Memory	8GB Soldered
Display	14" WQHD (2560x1440) IPS
Multi-touch	None
Storage	256GB SSD M.2 Opal2
Optical	None
WLAN + Bluetooth	Intel 8260 ac, 2x2 + BT4.1
WWAN	HUAWEI ME906S
SIM Card	None
Monitor Cable	None
Adapter	OneLink+ to RJ45 Adapter
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, Onsite
End of Support	Feb 16, 2021
Ann Date (mm/yy)	02/16



