

ThinkPad X1 Carbon (5th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Smart card readerNone Media readerMicroSD card reader, supports UHS-II microSD card PortsTwo USB 3.1 Gen 1 (USB 3.0, one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (support data, video, and power delivery), HDMI 1.4b, Ethernet extension connector WiGig dock (opt) ThinkPad WiGig dock Monitor cable (optional) HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to VGA: Lenovo USB-C to VGA Adapter USB-C to DP: Lenovo USB-C to DisplayPort 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													
or 7th Generation Intel Core i5 / i7 Processor																		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics										
	i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	LPDDR3-1866	Intel HD Graphics 620										
	i5-7300U			2.6 GHz	3.5 GHz	3MB												
	i7-7500U			2.7 GHz	3.5 GHz	4MB												
	i7-7600U			2.8 GHz	3.9 GHz	4MB												
Graphics	Intel HD Graphics 520 or 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)								Camera (optional) 720p: HD720p resolution, fixed focus IR & 720p: IR camera and HD720p camera Audio supportHD Audio, Conexant® CX11871 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack									
Chipset	Intel SoC (System on Chip) platform								Keyboard UltraNav™6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless Glass surface multi-touch touchpad									
Memory	8GB or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets								Security Security chip vPro (optional) Intel vPro Technology Fingerprint readerTouch style match on chip fingerprint reader on the palm rest NFC (optional) Near Field Communication									
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, 170° viewing angle								Battery Integrated Li-Polymer 3-cell (57Wh) RapidCharge battery Max battery lifeMobileMark® 2014: 15.5 hr AC adapter45W or 65W USB Type-C AC adapter RapidCharge <table><tr><td>AC adapter</td><td>45W USB-C</td><td>65W USB-C</td></tr><tr><td>Charge to 80%</td><td>Not support</td><td>1.0 hr</td></tr><tr><td>Charge to 100%</td><td>Not support</td><td>2.5 hr</td></tr></table>	AC adapter	45W USB-C	65W USB-C	Charge to 80%	Not support	1.0 hr	Charge to 100%	Not support	2.5 hr
AC adapter	45W USB-C	65W USB-C																
Charge to 80%	Not support	1.0 hr																
Charge to 100%	Not support	2.5 hr																
Multi-touch	None								PreloadWindows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo PowerEngage • ThinkVantage Product Recovery • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) Some: Windows 10 Home 64 Some: Windows 10 Pro 64 • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate									
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)																	
Optical	None								Limited warrantyOne 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									
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) via optional ThinkPad Ethernet Extension Cable																	
WLAN	One of the following, configurable by model (WiGig can coexist with WWAN): • Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card • Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card • Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card								Mil-Spec testMIL-STD-810G military certification									
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter * Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS																	
WWAN (optional)	Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)								EnvironmentEPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant									
SIM card (opt)	Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card																	
Dimensions	WxDxH: 12.74" x 8.55" x 0.63"; 323.5mm x 217.1mm x 15.95mm																	
Weight	Starting at 2.49 lb / 1.13 kg																	
Case color	Black or Silver (silver is not available in EMEA)																	
Case material	Display cover: CFRP/GFRP hybrid; Bottom: magnesium alloy hybrid																	

Lenovo
July 2017