

ThinkPad X1 Carbon (5th Gen) 20HQ0024++

Region
EMEA

Machine Type
20HQ

TopSeller
No

Processor
Core i7-7600U (2C, 2.8 / 3.9GHz, 4MB)

vPro
vPro

Graphics
Integrated Intel HD Graphics 620

Memory
8GB Soldered

Display
14" FHD (1920x1080) IPS

Multi-touch
None

Storage
256GB SSD M.2 PCIe NVMe Opal2

Optical
None

WLAN + Bluetooth
Intel 18265 ac, 2x2 + BT4.1

WWAN
Sierra EM7455

SIM Card
None

Dock
None

Monitor Cable
None

Adapter
ThinkPad Ethernet Extension Cable

Color
Black

Camera
720p

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
dTPM 2.0

Battery
3-cell (57Wh)

Power Adapter
65W USB-C

Operating System
Windows 10 Pro 64

Warranty
3-year, Onsite

End of Support
Mar 7, 2023

Ann Date (mm/yy)
02/17

Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "***" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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ThinkPad X1 Carbon (5th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor (EMEA has only i5-6300U and i7-6600U)								Smart card readerNone										
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader Ports	MicroSD card reader, supports UHS-II microSD card Two 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									
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD Graphics 520	WiGig dock (opt)	ThinkPad WiGig dock									
	i5-6300U			2.4 GHz	3.0 GHz	3MB			Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter									
	i7-6500U			2.5 GHz	3.1 GHz	4MB			USB-C to VGA: Lenovo USB-C to VGA Adapter										
	i7-6600U			2.6 GHz	3.4 GHz	4MB			USB-C to DP: Lenovo USB-C to DisplayPort Adapter										
	or 7th Generation Intel Core i5 / i7 Processor								Camera (optional)	720p: HD720p resolution, fixed focus IR & 720p: IR camera and HD720p camera									
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Audio support	HD Audio, Conexant® CX11871 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack									
	i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	LPDDR3-1866	Intel HD Graphics 620	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless Glass surface multi-touch touchpad									
	i5-7300U			2.6 GHz	3.5 GHz	3MB			Security	Power-on password, hard disk password, supervisor password, security keyhole									
i7-7500U	2.7 GHz			3.5 GHz	4MB	Security chip vPro (optional)			Discrete TPM 2.0, TCG Certified Intel vPro Technology										
i7-7600U	2.8 GHz			3.9 GHz	4MB	Fingerprint reader NFC (optional)			Touch style match on chip fingerprint reader on the palm rest Near Field Communication										
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)								Battery	Integrated Li-Polymer 3-cell (57Wh) RapidCharge battery									
Chipset	Intel SoC (System on Chip) platform								Max battery life	MobileMark® 2014: 15.5 hr									
Memory	8GB or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets								AC adapter	45W or 65W USB Type-C AC adapter									
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								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								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Some: Windows 10 Home 64 Some: 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)									
Storage	One of the following, configurable by model: • M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2) • M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)								Limited warranty	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									
Optical	None								Mil-Spec test	MIL-STD-810G military certification									
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) via optional ThinkPad Ethernet Extension Cable								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant									
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																		
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)																		
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																		

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