

ThinkPad X1 Carbon (5th Gen) 20HR0028++

Region
EMEA

Machine Type
20HR

TopSeller
TopSeller

Processor
Core i5-7200U (2C, 2.5 / 3.1GHz, 3MB)

vPro
No

Graphics
Integrated Intel HD Graphics 620

Memory
8GB Soldered

Display
14" FHD (1920x1080) IPS

Multi-touch
None

Storage
512GB SSD M.2 PCIe NVMe Opal2

Optical
None

WLAN + Bluetooth
Intel 8265 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 reader	None									
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader	MicroSD card reader, supports UHS-II microSD card									
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	LPDDR3-1866	Intel HD Graphics 520	Ports	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									
	i5-6300U			2.4 GHz	3.0 GHz	3MB			WiGig dock (opt)	ThinkPad WiGig dock									
	i7-6500U			2.5 GHz	3.1 GHz	4MB			Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter									
	i7-6600U			2.6 GHz	3.4 GHz	4MB			USB-C to VGA: Lenovo USB-C to VGA Adapter										
	or 7th Generation Intel Core i5 / i7 Processor								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	Camera (optional)	720p: HD720p resolution, fixed focus									
	i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	LPDDR3-1866	Intel HD Graphics 620	IR & 720p: IR camera and HD720p camera										
	i5-7300U			2.6 GHz	3.5 GHz	3MB			Audio support	HD Audio, Conexant® CX11871 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack									
i7-7500U	2.7 GHz			3.5 GHz	4MB	Keyboard			6-row, spill-resistant, multimedia Fn keys, LED backlight										
i7-7600U	2.8 GHz			3.9 GHz	4MB	UltraNav™			TrackPoint® pointing device and buttonless Glass surface multi-touch touchpad										
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)								Security	Power-on password, hard disk password, supervisor password, security keyhole									
Chipset	Intel SoC (System on Chip) platform								Security chip	Discrete TPM 2.0, TCG Certified									
Memory	8GB or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets								vPro (optional)	Intel vPro Technology									
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								Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest									
	Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle								NFC (optional)	Near Field Communication									
Multi-touch	None								Battery	Integrated Li-Polymer 3-cell (57Wh) RapidCharge battery									
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)								Max battery life	MobileMark® 2014: 15.5 hr									
Optical	None								AC adapter	45W or 65W USB Type-C AC adapter									
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) via optional ThinkPad Ethernet Extension Cable								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																	
WWAN	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								Preload	Windows® 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									
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								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 Some: Windows 10 Pro 64 • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate									
WWAN (optional)	Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)								Mil-Spec test	MIL-STD-810G military certification									
SIM card (opt)	Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant									
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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