

# ThinkPad X1 Carbon (6th Gen) 20KH0039++

**Region**  
EMEA

**Machine Type**  
20KH

**TopSeller**  
TopSeller

**Processor**  
Core i7-8550U (4C, 1.8 / 4.0GHz, 8MB)

**vPro**  
No

**Graphics**  
Integrated Intel UHD Graphics 620

**Memory**  
8GB Soldered

**Display**  
14" FHD (1920x1080) IPS Anti-glare

**Multi-touch**  
None

**Storage**  
512GB SSD M.2 PCIe NVMe Opal2

**Optical**  
None

**WLAN + Bluetooth**  
Intel 8265 ac, 2x2 + BT4.1

**WWAN**  
None

**SIM Card**  
None

**Monitor Cable**  
None

**Adapter**  
ThinkPad Ethernet Extension Cable Gen 2

**Color**  
Black

**Camera**  
720p

**Keyboard**  
Backlit

**Fingerprint Reader**  
Fingerprint Reader

**NFC**  
None

**TPM**  
dTPM 2.0

**Battery**  
57Wh

**Power Adapter**  
65W USB-C

**Operating System**  
Windows 10 Pro 64

**Warranty**  
3-year, Onsite

**End of Support**  
Feb 6, 2023

**Ann Date (mm/yy)**  
02/18

**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 (6<sup>th</sup> Gen) Platform Specifications

Product Specifications Reference (PSREF)

Lenovo

Processor	7th Generation Intel® Core™ i5 Processor								Dimensions	<i>WxDxH:</i> 12.74" x 8.55" x 0.63"; 323.5mm x 217.1mm x 15.95mm
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	Starting at 2.49 lb / 1.13 kg
	i5-7300U	2	4	2.6 GHz	3.5 GHz	3MB	LPDDR3-1866	Intel HD Graphics 620	Case color	Black or Silver (silver case is NOT available in EMEA)
	or 8th Generation Intel Core i5 / i7 Processor								Case material	<i>Display cover:</i> CFRP/GFRP hybrid; <i>Bottom:</i> magnesium alloy / PPS hybrid
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Smart card reader	None
	i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	LPDDR3-2133	Intel UHD Graphics 620	Media reader	MicroSD card reader, supports UHS-II
	i5-8350U			1.7 GHz	3.6 GHz	6MB			Ports	Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, microSD card reader, side docking connector, security keyhole
	i7-8550U			1.8 GHz	4.0 GHz	8MB			Monitor cable	<i>Optional:</i> Lenovo HDMI to VGA Monitor Adapter
	i7-8650U			1.9 GHz	4.2 GHz	8MB			Camera (optional)	<i>One of the following, configurable by model:</i> • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera, fixed focus
Graphics	Intel HD Graphics 620 or Intel UHD Graphics 620 in processor; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)								Audio support	HD Audio, Realtek® ALC3286 codec, Dolby® Audio™ Premium / stereo speakers, 1W x 2 / dual array microphone, headphone / microphone combo jack
Chipset	Intel SoC (System on Chip) platform								Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight
Memory	8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets * System clocks down for processors with lower memory controller								UltraNav™	TrackPoint® pointing device and buttonless Glass surface multi-touch touchpad
Display	<i>One of the following, configurable by model:</i> • 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle • 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 • 14.0" (355mm) HDR WQHD (2560x1440) with Dolby Vision™, glossy, LED backlight, IPS, 500 nits, 16:9 aspect ratio, 1500:1 contrast ratio, 100% gamut, 170° viewing angle								Security	Power-on password, hard disk password, supervisor password, security keyhole
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD only)								Security chip	Discrete TPM 2.0, TCG Certified
Storage	<i>One of the following, configurable by model:</i> • 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)								vPro (optional)	Intel vPro Technology
Optical	None								Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Cable Gen 2								NFC (optional)	Near Field Communication
WLAN + Bluetooth™	Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card * Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS								Battery	Integrated Li-Ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
WWAN (optional)	Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card								Max battery life	<i>MobileMark® 2014:</i> 19.3 hr * Battery life varies significantly with settings, usage, & other factors
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card								AC adapter	45W or 65W USB Type-C AC adapter
									Preload	Windows® 10 Home 64 or Windows 10 Pro 64
									Limited warranty	<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 service
									Mil-Spec test	MIL-STD-810G military certification
									Environment	EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

Lenovo  
February 2018

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