

ThinkPad X1 Carbon (7th Gen) 20QD0009US

Product

ThinkPad X1 Carbon (7th Gen)

Region

NA

Country/Region

USA

Machine Type

20QD

TopSeller

TopSeller

Processor

Intel Core i7-8665U (4C / 8T, 1.9 / 4.8GHz, 8MB)

Graphics

Integrated Intel UHD Graphics 620

Chipset

Intel SoC Platform

Memory

16GB Soldered LPDDR3-2133

Display

14" FHD (1920x1080) IPS 400nits Anti-glare, ThinkPad Privacy Guard

Multi-touch

None

Storage

512GB SSD M.2 2280 PCIe NVMe Opal2

Optical

None

WLAN + Bluetooth

Intel 9560 11ac, 2x2 + BT5.0

WWAN

None

SIM Card

None

Smart Card Reader

None

Monitor Cable

None

Bundled Accessories

None

Color

Black, Paint

Camera

720p + IR

Keyboard

Backlit, English

Fingerprint Reader

Fingerprint Reader

NFC

None

TPM

Discrete TPM 2.0

Battery

Integrated 51Wh

Power Adapter

65W USB-C

System Management

Intel vPro

Operating System

Windows 10 Pro 64, English

Bundled Software

None

Base Warranty

3-year, Depot

Bundled Service

None

End of Support

2025-10-10

Announce Date

2019-09-10

Recommended Services**Best**

3Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection + Sealed Battery) (5PS0N73216)

Better

3Y Lenovo Support (Premier Support + Keep Your Drive + Sealed Battery) (5PS0N73159)

Good

3Y Premier Support Upgrade from 3Y Depot/CCI (5WS0T36160)

Notes:

Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.

California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to:

<https://www.calrecycle.ca.gov/Electronics/Consumer>

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ThinkPad X1 Carbon (7th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel® Core™ i5 / i7 Processor									
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB	LPDDR3-2133	Intel UHD Graphics 620		
	i5-8365U			1.6 GHz	4.1 GHz	6MB				
	i7-8565U			1.8 GHz	4.6 GHz	8MB				
i7-8665U	1.9 GHz			4.8 GHz	8MB					
or 10th Generation Intel Core i5 / i7 Processor (NOT available in EMEA)										
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	i5-10210U	4	8	1.6 GHz	4.2 GHz	6MB	LPDDR3-2133	Intel UHD Graphics		
	i7-10510U			1.8 GHz	4.9 GHz	8MB				
	i7-10710U	6	12	1.1 GHz	4.7 GHz	12MB				
Graphics	Intel UHD Graphics 620 or Intel UHD Graphics in processor; supports external digital monitor via HDMI or USB Type-C / Thunderbolt; supports three independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@24Hz (HDMI)									
Chipset	Intel SoC (System on Chip) platform									
Memory	8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets									
Display	Size	Resolution		Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle
	14.0"	FHD (1920x1080) Multi-touch		IPS	Anti-glare	300 nits	16:9	700:1	72%	170°
	14.0"	FHD (1920x1080) Low Power		IPS	Anti-glare	400 nits	16:9	800:1	72%	170°
	14.0"	FHD (1920x1080) ThinkPad Privacy Guard		IPS	Anti-glare	400 nits	16:9	1000:1	72%	170°
	14.0"	WQHD (2560x1440)		IPS	Anti-glare	300 nits	16:9	700:1	72%	170°
	14.0"	UHD (3840x2160) HDR 400, Dolby Vision™		IPS	Glossy	500 nits	16:9	1400:1	90%	170°
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (FHD only), anti-reflection (AR), anti-smudge coating									
Storage	One of the following, configurable by model: • M.2 2280 SSD / SATA 6.0Gb/s • M.2 2280 SSD / PCIe NVMe 3.0 x 4 • Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4 • Intel Optane SSD, M.2 2280, PCIe NVMe 3.0 x 2									
Optical	None									
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2									
WLAN + Bluetooth™	One of the following, configurable by model: • Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0 • Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 (AX201 for 10th Gen processor only)									

WWAN (optional)		One of the following, configurable by model: • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card • Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card * For non-WWAN model, it means the model is NOT WWAN upgradable
SIM card (opt)		Nano-SIM card slot, optional Verizon LTE (US) SIM card
Dimensions		WxDxH (Privacy Guard): 12.72" x 8.54" x 0.61"; 323mm x 217mm x 15.4mm WxDxH (other model): 12.72" x 8.54" x 0.59"; 323mm x 217mm x 14.95mm Privacy Guard model: starting at 2.66 lb / 1.21 kg; Other model: starting at 2.4 lb / 1.09 kg
Weight		
Case color		Black paint or black weave
Case material		Display cover: Carbon Fiber; Bottom: magnesium alloy
Smart card reader		None
Media reader		None
Ports		Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, side docking connector, security keyhole * Depending on many factors, actual data transfer speed may be lower than theoretical speed
Monitor cable		Optional: Lenovo HDMI to VGA Monitor Adapter
Bundled Accy		Optional: ThinkPad Ethernet Extension Adapter Gen 2
Camera (optional)		One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus
Audio support		HD Audio, Realtek® ALC3286 codec / Dolby® Atmos™ speaker system, 2W x 2, 0.8 x 2 / 4 array far-field microphones, headphone / microphone combo jack
Keyboard		6-row, spill-resistant, multimedia Fn keys, LED backlight
UltraNav™		TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
Security		Power-on password, hard disk password, supervisor password, security keyhole
Security chip		Discrete TPM 2.0, TCG Certified
System Mgt (opt)		Intel vPro Technology
Fingerprint reader		Touch style match on chip fingerprint reader on the palm rest
NFC (optional)		Near Field Communication
Battery		Integrated Li-ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
Max battery life		MobileMark® 2014: 18.3 hr * Battery life varies significantly with settings, usage, & other factors
AC adapter		45W, 65W, or 65W slim USB-C AC adapter
Operating system		Optional: Windows® 10 Home 64 or Windows 10 Pro 64
Limited warranty		One of the following, configurable by model: • 1-year depot repair service • 1-year depot with 2-year planar 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 testing
Environment		EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant

Note: The specifications above may not be available in all regions.

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