

ThinkPad X1 Carbon Gen 8 20U90067US

Product

ThinkPad X1 Carbon Gen 8

Region

NA

Country/Region

USA

Machine Type

20U9

TopSeller

TopSeller

Processor

Intel Core i7-10610U (4C / 8T, 1.8 / 4.9GHz, 8MB)

Graphics

Integrated Intel UHD Graphics

Chipset

Intel SoC Platform

Memory

16GB Soldered LPDDR3-2133

Storage

1TB SSD M.2 2280 PCIe NVMe Opal2

Display

14" FHD (1920x1080) WVA 500nits Anti-glare, ThinkPad Privacy Guard

Touchscreen

10-point Multi-touch

Ethernet

100/1000M via Optional Adapter

Optical

None

WLAN + Bluetooth

Intel AX201 11ax, 2x2 + BT5.0

WWAN

None

SIM Card

None

Smart Card Reader

None

Monitor Cable

None

Case Material

Carbon Fiber (Top) + Magnesium Alloy (Bottom)

Bundled Accessories

None

Camera

720p + IR with ThinkShutter

Microphone

4x, 360°

Color

Black, Paint

Keyboard

Backlit, English

Fingerprint Reader

Touch Style, Match-on-Chip

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

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

EAN / UPC / JAN

195235706442

End of Support

2026-11-28

Announce Date

2020-07-21

Recommended Services**Best**

5Y Premier Support upgrade from 3Y Premier Support (5WS0W86745)

Better

4Y Premier Support upgrade from 3Y Premier Support (5WS0W86716)

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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Lenovo™

ThinkPad X1 Carbon Gen 8 Platform Specifications

Product Specifications Reference (PSREF)



Processor	10th Generation Intel® Core™ i5 / i7 Processor									
	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		
	i5-10310U			1.7 GHz	4.4 GHz	6MB				
	i7-10510U			1.8 GHz	4.9 GHz	8MB				
i7-10610U	1.8 GHz			4.9 GHz	8MB					
Dimensions	<i>WxDxH (Privacy Guard model):</i> 12.72" x 8.54" x 0.61"; 323mm x 217mm x 15.4mm <i>WxDxH (other model):</i> 12.72" x 8.54" x 0.59"; 323mm x 217mm x 14.9mm <i>Privacy Guard model:</i> starting at 2.66 lb / 1.21 kg; <i>Other model:</i> starting at 2.4 lb / 1.09 kg									
Weight	Black paint or black weave <i>Display cover:</i> Carbon Fiber; <i>Bottom:</i> magnesium alloy									
Case color	None									
Case material	None									
Smart card reader	None									
Media reader	None									
Ports	Two USB 3.2 Gen 1 (one Always On), two USB 3.2 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 <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i>									
Chipset	Intel SoC (System on Chip) platform									
Memory	8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets									
Display	Size	Resolution	Type	Surface	Touch	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle
	14.0"	FHD (1920x1080)	WVA	Anti-glare	-	400 nits	16:9	800:1	72%	170°
	14.0"	FHD (1920x1080)	WVA	Anti-glare	Multi-touch	400 nits	16:9	700:1	72%	170°
	14.0"	FHD (1920x1080) ThinkPad Privacy Guard	WVA	Anti-glare	Multi-touch	500 nits	16:9	1000:1	72%	170°
	14.0"	WQHD (2560x1440)	WVA	Anti-glare	-	300 nits	16:9	1000:1	72%	170°
	14.0"	UHD (3840x2160) HDR 400, Dolby Vision™	WVA	Glossy	-	500 nits	16:9	1500:1	90% DCI-P3	170°
Monitor cable	Optional: Lenovo HDMI to VGA Monitor Adapter									
Bundled Accy	Optional: ThinkPad Ethernet Extension Adapter Gen 2									
Camera (optional)	<ul style="list-style-type: none"> HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus 									
Audio support	HD Audio, USI 4551-513711-00 codec / Dolby® Atmos™ speaker system, 2W x 2, 0.8 x 2 / four 360° far-field microphones, headphone / microphone combo jack									
Keyboard	6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, 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	<ul style="list-style-type: none"> Firmware TPM 2.0 integrated in chipset 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-Polymer 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter									
Max battery life	<i>MobileMark® 2014:</i> 19.5 hr <i>MobileMark 2018:</i> 13.8 hr <i>* Battery life varies significantly with hardware configurations, settings, usage, & other factors</i>									
AC adapter	<ul style="list-style-type: none"> 45W USB-C AC adapter 65W USB-C AC adapter 65W USB-C slim AC adapter 									
Operating system	<ul style="list-style-type: none"> Windows® 10 Home 64 Windows 10 Pro 64 									
Limited warranty (optional)	<ul style="list-style-type: none"> 1-year depot repair service 1-year depot with 2-year system board repair service 1-year limited onsite service 1-year + 2-year depot repair service 1-year + 2-year limited onsite 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™ Gold; ENERGY STAR® 8.0; TCO Certified; RoHS-compliant									

Note: The specifications above may not be available in all regions and might change by regions.

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