ThinkPad X1 Carbon (7th Gen) 20QD003KGE

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Product
ThinkPad X1 Carbon (7th Gen)

Region
WE

Country
Germany

Machine Type
20QD

TopSeller
TopSeller

Processor
Core i7-8565U (4C / 8T, 1.8 / 4.6GHz, 8MB)

Graphics
Integrated Intel UHD Graphics 620

Chipset
Intel SoC Platform

Memory
16GB Soldered LPDDR3-2133

Display
14" HDR400 UHD (3840x2160) IPS 500nits Glossy

Multi-touch
None

Storage
512GB SSD M.2 2280 PCIe NVMe Opal2

Optane Memory
None

Optical
None

WLAN + Bluetooth
Intel 9560 11ac, 2x2 + BT5.0

WWAN
None

SIM Card
None

Smart Card Reader
None

Monitor Cable
None

Bundled Accessories
ThinkPad Ethernet Extension Adapter Gen 2

Color
Black Weave

Camera
720p + IR

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
NFC

TPM
Discrete TPM 2.0

Battery
Integrated 51Wh

Power Adapter
65W USB-C

System Management
None

Operating System
Windows 10 Pro 64

Bundled Software
None

Warranty
3-year, Depot

Upsell Service Bundles
None

End of Support
2025-07-18

Announce Date
2019-06-18

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.

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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		

Graphics

Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C / Thunderbolt;
supports three independent displays;
Max resolution: 4096x2304@60Hz (Thunderbolt); 4096x2160@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) Dolby Vision™ HDR400	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 x2

Optane memory

Intel Optane Memory H10

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

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0

Bluetooth™

Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

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: 12.74" x 8.55" x 0.59"; 323.5mm x 217.1mm x 14.9mm

Weight

Starting at 2.4 lb / 1.09 kg

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 Mylar surface multi-touch touchpad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Discrete TPM 2.0, TCG Certified

vPro *(optional)*

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 USB Type-C AC adapter

Max battery life

MobileMark® 2014: 18.3 hr

** Battery life varies significantly with settings, usage, & other factors*

AC adapter

45W or 65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service

Mil-Spec test

MIL-STD-810G military testing

Environment

EPEAT™ Bronze; ENERGY STAR® 7.1; RoHS-compliant

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

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