

ThinkPad X1 Carbon (7th Gen) 20QD0032GE

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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
8GB Soldered LPDDR3-2133

Display
14" FHD (1920x1080) Low Power IPS 400nits Anti-glare

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 Paint

Camera
720p + IR

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

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										Dimensions Weight Case color Case material	WxDxH: 12.74" x 8.55" x 0.59"; 323.5mm x 217.1mm x 14.9mm Starting at 2.4 lb / 1.09 kg Black paint or black weave Display cover: Carbon Fiber; Bottom: magnesium alloy
	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)										Smart card reader	None
Chipset	Intel SoC (System on Chip) platform										Media reader	None
Memory	8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets										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
Display	Size	Resolution	Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Monitor cable	Optional: Lenovo HDMI to VGA Monitor Adapter	
	14.0"	FHD (1920x1080) Multi-touch	IPS	Anti-glare	300 nits	16:9	700:1	72%	170°	Bundled Accy	Optional: ThinkPad Ethernet Extension Adapter Gen 2	
	14.0"	FHD (1920x1080) Low Power	IPS	Anti-glare	400 nits	16:9	800:1	72%	170°	Camera (optional)	One of the following, configurable by model:	
	14.0"	FHD (1920x1080) ThinkPad Privacy Guard	IPS	Anti-glare	400 nits	16:9	1000:1	72%	170°	Audio support	• HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus 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	
	14.0"	WQHD (2560x1440)	IPS	Anti-glare	300 nits	16:9	700:1	72%	170°	Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight	
	14.0"	UHD (3840x2160) Dolby Vision™ HDR400	IPS	Glossy	500 nits	16:9	1400:1	90%	170°	UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad	
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (FHD only), anti-reflection (AR), anti-smudge coating										Security	Power-on password, hard disk password, supervisor password, security keyhole
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										Security chip	Discrete TPM 2.0, TCG Certified
Optane memory	Intel Optane Memory H10										vPro (optional)	Intel vPro Technology
Optical	None										Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2										NFC (optional)	Near Field Communication
WLAN	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0										Battery	Integrated Li-ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										Max battery life	MobileMark® 2014: 18.3 hr * Battery life varies significantly with settings, usage, & other factors
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										AC adapter	45W or 65W USB Type-C AC adapter
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card										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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