

ThinkPad X1 Carbon Gen 8 Platform Specifications

Product Specifications Reference (PSREF)

Processor	10th Generation Intel® Core™ i5 / i7 Processor										Dimensions <i>WxDxH (Privacy Guard):</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
	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			1.6 GHz	4.4 GHz	6MB					
	i7-10510U			1.8 GHz	4.9 GHz	8MB					
i7-10610U	1.8 GHz			4.9 GHz	8MB						
Graphics	Intel UHD Graphics in processor; supports up to 3 independent displays via native display and two external monitors; supports external monitors via HDMI (up to 4K@24Hz) or Thunderbolt (5K@60Hz)										Weight Case color Case material <i>Bottom:</i> magnesium alloy Smart card readerNone Media readerNone PortsTwo 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 <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i> <i>Optional:</i> Lenovo HDMI to VGA Monitor Adapter <i>Optional:</i> ThinkPad Ethernet Extension Adapter Gen 2 Monitor cable Bundled Accy
Chipset	Intel SoC (System on Chip) platform										
Memory	8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets										
Display	Size	Resolution	Type	Surface	Touch	Bright-ness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	
	14.0"	FHD (1920x1080)	IPS	Anti-glare	-	400 nits	16:9	800:1	72%	170°	
	14.0"	FHD (1920x1080)	IPS	Anti-glare	Multi-touch	400 nits	16:9	700:1	72%	170°	
	14.0"	FHD (1920x1080) ThinkPad Privacy Guard	IPS	Anti-glare	Multi-touch	500 nits	16:9	1500:1	72%	170°	
	14.0"	WQHD (2560x1440)	IPS	Anti-glare	-	300 nits	16:9	1000:1	72%	170°	
	14.0"	UHD (3840x2160) HDR 400, Dolby Vision™	IPS	Glossy	-	500 nits	16:9	1500:1	90% DCI-P3	170°	
Multi-touch (opt)	<i>* WQHD is NOT available in EMEA</i> Capacitive-type multi-touch, supports 10-finger gesture, anti-reflection (AR) / anti-smudge (AS) coating										Camera (optional)• HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus
Storage	<ul style="list-style-type: none">• 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										Audio supportHD Audio, US1 4551-513711-00 codec / Dolby® Atmos™ speaker system, 2W x 2, 0.8 x 2 / four 360° far-field microphones, headphone / microphone combo jack
Optical	None										Keyboard6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, LED backlight
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Adapter Gen 2										UltraNav™TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
WLAN + Bluetooth™	Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 <i>* Intel AX201 card supports BT5.1 but is limited to BT5.0 by Windows OS</i>										SecurityPower-on password, hard disk password, supervisor password, security keyhole Security chip• Firmware TPM 2.0 integrated in chipset • Discrete TPM 2.0 TCG Certified
WWAN (optional)	<ul style="list-style-type: none">• Wireless WAN upgradable• 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 <i>* For non-WWAN model, it means the model is NOT WWAN upgradable</i>										System Mgt (opt)Intel vPro Technology
SIM card (opt)	Nano-SIM card, Lenovo Connect 12 month, 4G LTE (US, UK and Germany only)										Fingerprint readerTouch style match on chip fingerprint reader on the palm rest NFC (optional)Near Field Communication
											BatteryIntegrated 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> 13.5 hr <i>* Battery life varies significantly with 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 testMIL-STD-810G military testing
											EnvironmentEPEAT™ Gold; ENERGY STAR® 8.0; RoHS-compliant

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

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