

ThinkPad X1 Carbon (7th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel® Core™ i5 / i7 Processor									Dimensions	WxDxH (Privacy Guard): 12.72" x 8.54" x 0.61"; 323mm x 217mm x 15.4mm		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		Weight	WxDxH (other model): 12.72" x 8.54" x 0.59"; 323mm x 217mm x 14.95mm		
	i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB	LPDDR3-2133	Intel UHD Graphics	Privacy Guard model:	starting at 2.66 lb / 1.21 kg;			
	i5-8365U			1.6 GHz	4.1 GHz	6MB			Other model:	starting at 2.4 lb / 1.09 kg			
	i7-8565U			1.8 GHz	4.6 GHz	8MB			Case color	Black paint or black weave			
i7-8665U	1.9 GHz			4.8 GHz	8MB	Case material			Display cover: Carbon Fiber; Bottom: magnesium alloy				
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		Smart card reader	None		
	i5-10210U	4	8	1.6 GHz	4.2 GHz	6MB	LPDDR3-2133	Intel UHD Graphics	Media reader	None			
	i7-10510U			1.8 GHz	4.9 GHz	8MB			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			
	i7-10710U	6	12	1.1 GHz	4.7 GHz	12MB			Monitor cable	* Depending on many factors, actual data transfer speed may be lower than theoretical speed			
									Bundled Accy	Optional: Lenovo HDMI to VGA Monitor Adapter Optional: ThinkPad Ethernet Extension Adapter Gen 2			
Graphics	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	Keyboard	6-row, spill-resistant, multimedia Fn keys, LED backlight		
	14.0"	FHD (1920x1080) Multi-touch	IPS	Anti-reflection Anti-smudge	300 nits	16:9	700:1	72%	170°	UltraNav™	TrackPoint® pointing device and buttonless glass surface multi-touch touchpad		
	14.0"	FHD (1920x1080) Low Power	IPS	Anti-glare	400 nits	16:9	800:1	72%	170°	Security	Power-on password, hard disk password, supervisor password, security keyhole		
	14.0"	FHD (1920x1080) ThinkPad Privacy Guard	IPS	Anti-glare	400 nits	16:9	1000:1	72%	170°	Security chip	• Firmware TPM 2.0 integrated in chipset • Discrete TPM 2.0 TCG Certified • Discrete TPM 2.0 with L3 Security Support (special bid only) * May be disabled in some region		
	14.0"	WQHD (2560x1440)	IPS	Anti-glare	300 nits	16:9	700:1	72%	170°	System Mgt (opt)	Intel vPro Technology		
	14.0"	UHD (3840x2160) HDR 400, Dolby Vision™	IPS	Glossy	500 nits	16:9	1400:1	90%	170°	Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest		
										NFC (optional)	Near Field Communication		
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (FHD only), anti-reflection (AR) / anti-smudge (AS) 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												
Optical	None												
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Adapter Gen 2												
WLAN + Bluetooth™	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth™ 5.1 * BT5.1 is supported on Windows 10 version 2004 or above (limited to BT5.0 on earlier version)												
WWAN (optional)	• Wireless WAN upgradable (special bid only) • 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)	• Verizon LTE (US) SIM card • Gemalto eSIM												
Operating system	Optional: Windows® 10 Home 64 or Windows 10 Pro 64												
Limited warranty	• 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												