ThinkPad X1 Carbon (7th Gen) Platform Specifications

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 # of # of Number Cores Three		# of reads Fr		Max Turbo requency Ca	che M	lemory Types	Proce Grap	essor phics	Weight	WxDxH (other model): 12.72" x 8.54" x 0.59"; 323mm x 217mm x 14.95mm Privacy Guard model: starting at 2.66 lb / 1.21 kg; Other model: starting at 2.4 lb / 1.09 kg
	i5-8265U i5-8365U i7-8565U	4	8 1	.6 GHz .8 GHz	4.1 GHz 6l 4.6 GHz 8l	ив	PDDR3-2133	Intel Grap	-	Case color Case material	Other model: starting at 2.4 lb / 1.09 kg Black paint or black weave Display cover: Carbon Fiber; Bottom: magnesium alloy
	i7-8665U 1.9 GHz 4.8 GHz 8MB or 10th Generation Intel Core i5 / i7 Processor (NOT available in EMEA)									Smart card readerNone Media reader None	
	Processor # of Number Cores Thread 15-10210U 17-10510U 17-10710U 6 12		# of	Base N	Max Turbo	ache M	Memory Types	Proce	essor ohics	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,
			8 1	.8 GHz	4.2 GHz 6MB 4.9 GHz 8MB 4.7 GHz 12MB		PDDR3-2133	33 Intel UHD Graphics		Monitor cable	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 Optional: Lenovo HDMI to VGA Monitor Adapter
Graphics	Intel UHD Graphics in processor;									Bundled Accy	Optional: ThinkPad Ethernet Extension Adapter Gen 2 I) One of the following, configurable by model:
	supports external digital monitor via HDMI or USB Type-C / Thunderbolt; supports three independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@24Hz (HDMI)									- 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 /
Chipset Memory	Intel SoC (System on Chip) platform 8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets										Dolby® Atmos™ speaker system, 2W x 2, 0.8W x 2 / four 360° far-field microphones, headphone / microphone combo jack
Display	Size Reso	lution	Туре	Surface	Brightness	Aspec Ratio	t Contrast Ratio	Color Gamut	Viewing Angle	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
	14.0" FHD (1920x1080) Multi-touch		³⁰⁾ IPS	Anti- reflection Anti- smudge	300 nits	16:9	700:1	72%	170°	Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Firmware TPM 2.0 integrated in chipset Discrete TPM 2.0 TCG Certified
		(1920x108 Power	³⁰⁾ IPS	Anti-glare	400 nits	16:9	800:1	72%	170°	Systom Mat (ont)	Discrete TPM 2.0 with L3 Security Support (special bid only) * May be disabled in some region Intel vPro Technology
	FHD (1920x1080) 14.0" ThinkPad Privacy Guard		BO) Cy IPS	Anti-glare	400 nits	16:9	1000:1	72%	170°	Fingerprint reader	Touch style match on chip fingerprint reader on the palm rest Near Field Communication
	14.0" WQHD (2560x1440) UHD (3840x2160) 14.0" HDR 400, Dolby Vision™			Anti-glare	300 nits	16:9	700:1	72%	170°	Battery	Integrated Li-Polymer 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
			IPS	Glossy 500 nits		16:9	1400:1	90%	170°	Max battery life	MobileMark® 2014: 18.3 hr * Battery life varies significantly with hardware configurations, settings, usage, & other factors
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (FHD only), anti-reflection (AR) / anti-smudge (AS) coating									AC adapter	 45W USB-C AC adapter 65W USB-C AC adapter 65W USB-C slim AC adapter
Storage	One of the following, configurable by model: • M.2 2280 SSD / SATA 6.0Gb/s									Operating system	n Optional: Windows® 10 Home 64 or Windows 10 Pro 64
	 M.2 2280 SSD / PCle NVMe 3.0 x 4 Intel Optane Memory H10 with Solid State Storage, M.2 2280, PCle NVMe 3.0 x 4 									Limited warranty	1-year depot repair service 1-year depot with 2-year system board repair service 1-year limited onsite service
Optical	None							,		_	 1-year + 2-year depot repair service 1-year + 2-year limited onsite service
Ethernet	Native Intel Ethernet Connection I219-V (<i>Non-vPro</i>) or I219-LM (<i>vPro</i>) via optional ThinkPad Ethernet Extension Adapter Gen 2										3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service
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)								r version)	Mil-Spec test	MIL-STD-810G military testing
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 Verizon LTE (US) SIM card 									Environment	EPEAT™ Gold; ENERGY STAR® 8.0; TCO Certified; RoHS-compliant
	Gemalto eSIM pecifications above may not be available in all regions and might change by regions. Lence										