## ThinkPad X1 Carbon (7<sup>th</sup> Gen) Platform Specifications

Processor	8th Generation Intel® Core™ i5 / i7 Processor							WWAN (optional)	One of the following, configurable by model:
	Processor # of # of Number Cores Threads   15-8265U	requency F	requency	nche M	Memory Types		essor phics	SIM card (opt)	<ul> <li>Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card</li> <li>Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card</li> <li>For non-WWAN model, it means the model is NOT WWAN upgradable</li> </ul>
	i5-8365U i7-8565U 4 8	1.6 GHz 1.8 GHz	4.1 GHz 6 4.6 GHz 8	MB MB	.PDDR3-2133	Intel UHD Graphics 620		Dimensions	Nano-SIM card slot, optional Verizon LTE (US) SIM card  WxDxH (Privacy Guard): 12.72" x 8.54" x 0.61"; 323mm x 217mm x 15.4mm  WxDxH (other model): 12.72" x 8.54" x 0.59"; 323mm x 217mm x 14.95mm
	i7-8665U     1.9 GHz   4.8 GHz   8MB     or 10th Generation Intel Core i5 / i7 Processor (NOT available in EMEA)							Weight	Privacy Guard model: starting at 2.66 lb / 1.21 kg; Other model: starting at 2.4 lb / 1.09 kg
	Processor						essor	Case color	Black paint or black weave
			Frequency		viemory Types	Gra	phics	Case material	Display cover: Carbon Fiber; Bottom: magnesium alloy
	i5-10210U 4 8 - i7-10510U 6 12	1.8 GHz	4.9 GHz 8	MB MB L	_PDDR3-2133		UHD phics	Smart card reade Media reader	None
Graphics	Intel UHD Graphics 620 or 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) Intel SoC (System on Chip) platform							Ports  - Monitor cable	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 Optional: Lenovo HDMI to VGA Monitor Adapter
Memory	8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets							Bundled Accy Optional: ThinkPad Ethernet Extension Adapter Gen 2  Camera (optional) One of the following, configurable by model:	
Display	Size Resolution Ty	oe Surface	Brightness	Aspec Ratio	t Contrast Ratio	Color Gamut	Viewing Angle		HD720p camera with ThinkShutter camera privacy, fixed focus     IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus
	14.0" FHD (1920x1080) IF	S Anti- reflection Anti- smudge	300 nits	16:9	700:1	72%	170°	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
	14.0" FHD (1920x1080) IF	S Anti-glare	400 nits	16:9	800:1	72%	170°	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface multi-touch touchpad
	FHD (1920x1080) 14.0" ThinkPad Privacy IP Guard	S Anti-glare	400 nits	16:9	1000:1	72%	170°	Security Security chip System Mat (opt)	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified Intel vPro Technology rTouch style match on chip fingerprint reader on the palm rest Near Field Communication
		S Anti-glare	300 nits	16:9	700:1	72%	170°	Fingerprint reade	
	UHD (3840x2160) HDR 400, Dolby Vision™	S Glossy	500 nits	16:9	1400:1	90%	170°	NFC (optional) Battery	Integrated Li-ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture (FHD only), anti-reflection (AR), anti-smudge coating							Max battery life	MobileMark® 2014: 18.3 hr * Battery life varies significantly with settings, usage, & other factors
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							AC adapter	45W, 65W, or 65W slim USB-C AC adapter an Optional: Windows® 10 Home 64 or Windows 10 Pro 64
								Limited warranty	One of the following, configurable by model:
	<ul> <li>Intel Optane<sup>™</sup> Memory H10 with Solid State Storage,</li> <li>M.2 2280, PCIe NVMe 3.0 x 4</li> </ul>							Limited warranty	1-year depot repair service
Optical	None							<ul> <li>1-year depot with 2-year system board repair service</li> <li>3-year/1-yr battery depot repair service</li> </ul>	
Ethernet	Native Intel Ethernet Connection I219-V ( <i>Non-vPro</i> ) or I219-LM ( <i>vPro</i> ) via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2								3-year/1-yr battery limited onsite service
WLAN +	One of the following, configurable by model:							Mil-Spec test	MIL-STD-810G military testing
Bluetooth™	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0 Intel Wi-Fi 6 AX201, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 (AX201 for 10th Gen processor only)							Environment	EPEAT™ Gold; ENERGY STAR® 7.1; RoHS-compliant
Note: The specific	ations above may not be avai	able in all re	egions.						Lenovo

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