

ThinkPad X390 Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel® Core™ i3 / i5 / i7 Processor										Dimensions	Models	FHD Non-touch		HD / FHD Multi-touch		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		Carbon Fiber		311.9mm x 217.0mm x 16.5mm 12.28" x 8.54" x 0.65"		-			
	i3-8145U	2	4	2.1 GHz	3.9 GHz	4MB	DDR4-2400	Intel UHD Graphics 620		PPS		312.0mm x 217.2mm x 16.9mm 12.28" x 8.55" x 0.67"		312mm x 217.2mm x 16.9mm 12.28" x 8.55" x 0.67"			
	i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB				Models		FHD Non-touch	HD		FHD Multi-touch		
	i5-8365U			1.6 GHz	4.1 GHz	6MB				Carbon Fiber		2.70 lb / 1.22 kg		-			
	i7-8565U			1.8 GHz	4.6 GHz	8MB				PPS		2.85 lb / 1.29 kg		2.93 lb / 1.33 kg		2.84 lb / 1.28 kg	
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; supports three independent displays; Max resolution: 4096x2304@60Hz (Thunderbolt); 4096x2160@24Hz (HDMI)										Case color	Black					
Chipset	Intel SoC (System on Chip) platform										Case material	Display cover: Carbon Fiber (FHD non-touch only) or PPS; Bottom: Magnesium/Aluminum					
Memory	8GB, 16GB or 32GB / 2400MHz DDR4 / soldered to systemboard, no sockets * Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation										Smart card reader	Optional: Smart card reader					
Display	Size	Resolution		Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Media reader	MicroSD card reader, in the combo slot with nano-SIM card					
	13.3"	HD (1366x768)		TN	Anti-glare	250 nits	16:9	300:1	45%	170°	Ports	Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 1.4b, Ethernet extension connector, combo slot of nano-SIM card (WWAN models) and microSD card reader, headphone / microphone combo jack, optional smart card reader, side docking connector, security keyhole * Depending on many factors, actual data transfer speed may be lower than theoretical speed					
	13.3"	FHD (1920x1080)		IPS	Anti-glare	300 nits	16:9	1200:1 (non-touch) 700:1 (multi-touch)	72%	170°	Monitor cable (optional)	HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter USB-C to VGA: Lenovo USB-C to VGA Adapter USB-C to DP: Lenovo USB-C to DisplayPort Adapter					
	13.3"	FHD (1920x1080) ThinkPad Privacy Guard		IPS	Anti-glare	400 nits	16:9	1000:1	72%	178°	Bundled Accy	Optional: ThinkPad Ethernet Extension Adapter Gen 2					
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD only)										Camera (optional)	One of the following, configurable by model: • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus					
Storage	• M.2 2280 SSD / SATA 6.0Gb/s • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4 • M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2										Audio support	HD Audio, Realtek® ALC3287 codec / stereo speakers, 1W x 2, Dolby® Audio™ Premium / dual array far-field microphone, headphone / microphone combo jack					
Optane™ memory	Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2										Keyboard	6-row, spill-resistant, multimedia Fn keys, optional LED backlight					
Optical	None										UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad					
Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via bundled or optional ThinkPad Ethernet Extension Adapter Gen 2										Security	Power-on password, hard disk password, supervisor password, security keyhole					
WLAN (optional)	One of the following, configurable by model: • Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0 • Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0										Security chip	Discrete TPM 2.0, TCG Certified					
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter										System Mgt (opt)	Intel vPro Technology					
WWAN (optional)	One of the following, configurable by model: • Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only) • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card * For non-WWAN model, it means the model is NOT WWAN upgradable										Fingerprint reader	Optional: Touch style match on chip fingerprint reader on the palm rest					
											NFC (optional)	Near Field Communication					
											Battery	Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter					
											Max battery life	MobileMark® 2014: 17.6 hr * Battery life varies significantly with settings, usage, & other factors					
											AC adapter	45W or 65W USB Type-C AC adapter					
											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 • 3-year/1-yr battery limited onsite service					
											Mil-Spec test	MIL-STD-810G military certification					
											Environment	EPEAT™ Bronze; ENERGY STAR® 7.0; RoHS-compliant					

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

Lenovo
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