

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		Weight	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			1.8 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	<i>Display cover:</i> Carbon Fiber (FHD non-touch only) or PPS; <i>Bottom:</i> Magnesium/Aluminum			
Memory	8GB, 16GB or 32GB / 2400MHz DDR4 / soldered to systemboard, no sockets									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			
Multi-touch (opt)	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), USB 3.1 Type-C Gen 1, USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet extension connector, combo slot of nano-SIM card (WWAN models) and microSD card reader, side docking connector, security keyhole			
	13.3"	FHD (1920x1080)	IPS	Anti-glare	300 nits	16:9	1200:1 (non-touch) 700:1 (multi-touch)	72%	170°	Monitor cable (optional)	* Depending on many factors, actual data transfer speed may be lower than theoretical speed <i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter <i>USB-C to VGA:</i> Lenovo USB-C to VGA Adapter <i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter			
	13.3"	FHD (1920x1080) ThinkPad Privacy Guard	IPS	Anti-glare	400 nits	16:9	1000:1	72%	178°	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			
	On-cell touch, supports 10-finger gesture (FHD only)									Audio support	HD Audio, Realtek® ALC3287 codec / stereo speakers, 1W x 2, Dolby® Audio™ Premium / dual array far-field microphone, headphone / microphone combo jack			
Storage	<ul style="list-style-type: none"> 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 Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2 None 									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 Wireless-AX 22260, Wi-Fi 2x2 802.11ax + Bluetooth 5.0									Security chip vPro (optional)	Discrete TPM 2.0, TCG Certified Intel vPro Technology			
Bluetooth™	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									Fingerprint reader	Optional: Touch style match on chip fingerprint reader on the palm rest			
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									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.

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