

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	PPS		312.0mm x 217.2mm x 16.9mm 12.28" x 8.55" x 0.67"		311.9mm 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	or 10th Generation Intel Core i5 / i7 Processor (NOT available in EMEA)																			
Graphics	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Case color	Black													
	i5-10210U	4	8	1.6 GHz	4.2 GHz	6MB	DDR4-2400	Intel UHD Graphics	Case material	Display cover: Carbon Fiber (FHD non-touch only) or PPS; Bottom: Magnesium/Aluminum													
	i7-10510U	1.8 GHz	4.9 GHz	8MB	Smart card reader	Optional: Smart card reader																	
	i7-10710U	6	12	1.1 GHz	4.7 GHz	12MB			Media reader	MicroSD card reader, in the combo slot with nano-SIM card													
	Chipset Memory	Intel SoC (System on Chip) platform 4GB, 8GB, 16GB or 32GB / 2400MHz DDR4 / soldered to systemboard, no sockets * 32GB memory is NOT available for models with 10th Gen processor * Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation									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											
Display		Size	Resolution	Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	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 Optional: ThinkPad Ethernet Extension Adapter Gen 2											
		13.3"	HD (1366x768)	TN	Anti-glare	250 nits	16:9	500:1	45%	90°	Bundled Accy	Camera (optional) • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus											
		13.3"	FHD (1920x1080)	WVA	Anti-glare	300 nits	16:9	800:1 (non-touch) 700:1 (multi-touch)	72%	170°		Audio support	HD Audio, Realtek® ALC3287 codec / stereo speakers, 1W x 2, Dolby® Audio™ Premium / dual array far-field microphone (for special bid model, microphone is optional), headphone / microphone combo jack										
		13.3"	FHD (1920x1080) ThinkPad Privacy Guard	WVA	Anti-glare	400 nits	16:9	1000:1	72%	178°		Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad										
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD only)									Security	Power-on password, hard disk password, supervisor password, security keyhole												
Storage	• M.2 2280 SSD / SATA 6.0Gb/s • M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2 • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4 • Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4									Security chip	Firmware TPM 2.0 integrated in chipset or discrete TPM 2.0 TCG Certified (may be disabled in some region)												
Optical										None	System Mgt (opt)	Intel vPro Technology											
Ethernet										Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Adapter Gen 2									Fingerprint reader	Optional: Touch style match on chip fingerprint reader on the palm rest			
WLAN (optional)										• 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									NFC (optional)	Near Field Communication			
Bluetooth™ (opt)	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									Battery	Integrated Li-Polymer 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter												
WWAN (optional)	• Wireless WAN upgradable (special bid only in EMEA) • 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									Max battery life	MobileMark® 2014: 17.6 hr * Battery life varies significantly with hardware configurations, settings, usage, & other factors												
SIM card (opt)	SIM card (opt)	• Verizon LTE (US) SIM card • Gemalto eSIM									AC adapter	• 45W USB-C AC adapter • 65W USB-C AC adapter • 65W USB-C slim AC adapter											
											Operating system	Optional: Windows® 10 Home 64 or Windows 10 Pro 64											
											Limited warranty (optional)	• 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® 7.1; TCO Certified; RoHS-compliant											