

# 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"	-	
Weight	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)									Case color	Black			
Graphics	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Case material	Display cover: Carbon Fiber (FHD non-touch only) or PPS; Bottom: Magnesium/Aluminum			
	i5-10210U	4	8	1.6 GHz	4.2 GHz	6MB	DDR4-2400	Intel UHD Graphics	Smart card reader	Optional: Smart card reader			
Chipset	i7-10510U	6	12	1.8 GHz	4.9 GHz	8MB			Media reader	MicroSD card reader, in the combo slot with nano-SIM card			
Memory	i7-10710U			1.1 GHz	4.7 GHz	12MB	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 <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i>					
Display	Intel SoC (System on Chip) platform 4GB, 8GB, 16GB or 32GB / 2400MHz DDR4 / soldered to systemboard, no sockets <i>* 32GB memory is NOT available for models with 10th Gen processor</i> <i>* Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation</i>								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			
Display	Size	Resolution	Type	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Bundled Accy			
	13.3"	HD (1366x768)	TN	Anti-glare	250 nits	16:9	500:1	45%	90°	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)	IPS	Anti-glare	300 nits	16:9	800:1 (non-touch) 700:1 (multi-touch)	72%	170°	Audio support			
Multi-touch (opt)	13.3"	FHD (1920x1080) ThinkPad Privacy Guard	IPS	Anti-glare	400 nits	16:9	1000:1	72%	178°	Keyboard			
	On-cell touch, supports 10-finger gesture (FHD only)									UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad		
Storage	<ul style="list-style-type: none"> <li>M.2 2280 SSD / SATA 6.0Gb/s</li> <li>M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2</li> <li>M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4</li> <li>Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4</li> </ul>								Security	Power-on password, hard disk password, supervisor password, security keyhole			
Optical	None								Security chip	Firmware TPM 2.0 integrated in chipset or discrete TPM 2.0 TCG Certified (may be disabled in some region)			
	Ethernet	Native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro) via optional ThinkPad Ethernet Extension Adapter Gen 2								System Mgt (opt)	Intel vPro Technology		
WLAN (optional)	<ul style="list-style-type: none"> <li>Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0</li> <li>Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0</li> </ul>								Fingerprint reader	Optional: Touch style match on chip fingerprint reader on the palm rest			
Bluetooth™ (opt)	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter								NFC (optional)	Near Field Communication			
WWAN (optional)	<ul style="list-style-type: none"> <li>Wireless WAN upgradable (special bid only in EMEA)</li> <li>Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only)</li> <li>Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card</li> <li><i>* For non-WWAN model, it means the model is NOT WWAN upgradable</i></li> </ul>								Battery	Integrated Li-Polymer 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter MobileMark® 2014: 17.6 hr <i>* Battery life varies significantly with hardware configurations, settings, usage, &amp; other factors</i>			
SIM card (opt)	<ul style="list-style-type: none"> <li>Verizon LTE (US) SIM card</li> <li>Gemalto eSIM</li> </ul>								Max battery life	45W USB-C AC adapter			
									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)	<ul style="list-style-type: none"> <li>1-year depot repair service</li> <li>1-year depot with 2-year system board repair service</li> <li>1-year limited onsite service</li> <li>1-year + 2-year depot repair service</li> <li>1-year + 2-year limited onsite service</li> <li>3-year/1-yr battery depot repair service</li> <li>3-year/1-yr battery limited onsite service</li> </ul>			
									Mil-Spec test	MIL-STD-810G military testing			
									Environment	EPEAT™ Gold; ENERGY STAR® 7.1; TCO Certified; RoHS-compliant			

Note: The specifications above may not be available in all regions and might change by regions.

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