ThinkPad L390 Platform Specifications

Product Specifications Reference (PSREF)

Processor 8th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8145U	2	4	2.1 GHz	3.9 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB		
i5-8365U			1.6 GHz	4.1 GHz	6MB		
i7-8565U			1.8 GHz	4.6 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 (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset Intel SoC (System on Chip) platform

Memory 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets
** Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation*

Display

Size	Resolution	Surface	Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle
13.3"	HD (1366x768)	Anti-glare	TN	250 nits	16:9	500:1	90°
13.3"	FHD (1920x1080)	Anti-glare	IPS	250 nits	16:9	700:1 (non-touch) 800:1 (multi-touch)	170°

Multi-touch *(opt)* On-cell touch, supports 10-finger gesture (FHD only)

Storage *One of the following, configurable by model:*
- 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

Optane™ memory None

Optical None

Ethernet Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*)
via optional ThinkPad Ethernet Extension Cable or
Lenovo USB-C to Ethernet Adapter

WLAN
Bluetooth™ Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN None

SIM card None

Dimensions *WxDxH:* 12.67" x 8.83" x 0.74"; 321.8mm x 224.2mm x 18.8mm

Weight Starting at 3.22 lb / 1.46 kg

Case color Black or Silver

Case material *Display cover:* Aluminum
Bottom: GFRP

Smart card reader None

Media reader MicroSD card reader

Ports Two USB 3.1 Gen 1 (one Always On),
two USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort),
HDMI 1.4b, Ethernet extension connector, headphone / microphone combo jack,
microSD card reader, security keyhole
** Depending on many factors, actual data transfer speed may be lower than theoretical speed*

Monitor cable *(optional)*
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to VGA + Power Adapter: Lenovo USB-C to VGA plus Power Adapter
USB-C to HDMI: Lenovo USB-C to HDMI Adapter
USB-C to HDMI + Power Adapter: Lenovo USB-C to HDMI plus Power Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Bundled Accessories *(optional)*
USB-C to RJ45: Lenovo USB-C to Ethernet Adapter
USB-C to USB-A: Lenovo USB-C to USB-A Adapter
USB-C to USB-C: Lenovo USB-C to USB-C Cable 2M

Camera HD720p camera, fixed focus

Audio support HD Audio, Realtek ALC3287 codec /
stereo speakers, 2W x 2, Dolby® Audio™ Premium /
dual array microphone, headphone / microphone combo jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security Power-on password, hard disk password, supervisor password, security keyhole

Security chip Discrete TPM 2.0, TCG Certified

System Mgt None

Fingerprint reader *Optional:* Touch style fingerprint reader on the palm rest

NFC *(optional)* Near Field Communication

Battery Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
with 65W USB Type-C AC adapter

Max battery life *MobileMark® 2014:* 14.61 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.