ThinkPad L590 Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel [®] Celeron [®] Processor or 8th Generation Intel Core™ i3 / i5 / i7 Processor									Dimensions	<i>WxDxH:</i> 14.82" x 10.02" x 0.90"; 376.5mm x 254.5mm x 22.95mm	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency		Memory Proces Types Graph		C	ase color	Starting at 4.48 lb / 2.0 kg Black	
	Cel 4305U	2	2	2.2 GHz	-	2MB	DDR4-2133	Intel UHD Grap 610	ohics —		PC/ABS plastic rOptional: Smart card reader	
	i3-8145U	2	4	2.1 GHz	3.9 GHz	-	DDR4-2400	Intel UHD Graphics			MicroSD card reader 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 (with the function of Power Delivery and DisplayPort).	
	i5-8265U	4	8 1	1.6 GHz	3.9 GHz 4.1 GHz							
	i5-8365U	4	8	1.6 GHz					Shics			
	i7-8565U						HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models),					
	i7-8665U	4	8	1.9 GHz	4.8 GHz	8MB		<u> </u>		4	headphone / microphone combo jack, optional smart card reader, microSD card reader, side docking connector, security keyhole	
Graphics	Intel UHD Graphics 610 or 620 in processor only or Intel UHD Graphics 620 in processor and AMD Radeon 535, 2GB GDDR5 memor (discrete models are NOT available in EMEA); supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)								(C Bi	* Depending on many factors, actual data transfer speed may be lower than theoretical speed Monitor cable (optional) Bundled Accy		
Ohimaat									C	Camera (optional) One of the following, configurable by model:		
Chipset Memory	Intel SoC (System on Chip) platform 64GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * Installed memory is actually 2666MHz but run at 2133MHz or 2400MHz due to Intel limitation								tion A		 HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus HD Audio, Realtek ALC3287 codec / 	
Display	Size Resolution		Ту	pe Surface	e Brightness Aspec		ect Contrast o Ratio	Color Viewing Gamut Angle			stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack	
	15.6" HD (15.6" FHD			N Anti-glar S Anti-glar		16:		45% 90 45% 170		eyboard IltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad	
Multi-touch	None									ecurity	Power-on password, hard disk password, supervisor password, security keyhole	
Storage	 HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4 M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2 								S' Fi	Security chip Discrete TPM 2.0, TCG Certified System Mgt (opt) Intel vPro Technology Fingerprint reader Optional: Touch style fingerprint reader on the palm rest NFC (optional) Near Field Communication		
_	* Installed M.2 2280 SSD is PCIe 3x4 but run at PCIe 3x2 due to M.2 SSD adapter limitation								on Ba	attery Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)		
	otane™ memory <i>Optional:</i> Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2										with 65W AC adapter	
Optical	None									lax battery life	MobileMark® 2014: 12 hr * Battery life varies significantly with settings, usage, & other factors	
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								A	C adapter	45W, 65W, or 65W slim USB-C AC adapter	
WLAN +	One of the following, configurable by model:)		perating system	Optional: Windows [®] 10 Home 64 or Windows 10 Pro 64	
Bluetooth™		Prealtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card							Li		One of the following, configurable by model:	
(optional)	(NOT available in EMEA)										1-year depot repair service	
	 İntel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0 Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 										3-year/1-yr battery depot repair service	
MMAN (optional)	One of the following, configurable by model:									•	MIL-STD-810G military testing	
	 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 <i>* For non-WWAN model, it means the model is NOT WWAN upgradable</i> 									nvironment	EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant	
SIM card	None											
Note: The specifica	tions above	nav n	ot he ava	ilable in all i	regions						Lenovo	

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

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