ThinkPad E590 Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel [®] Core™ i3 / i5 / i7 Processor								Dimensions	<i>WxDxH:</i> 14.53" x 9.94" x 0.78"; 369mm x 252.5mm x 19.9mm
	Processor # of Number Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types		Processor Graphics	Weight Case color	Starting at 4.68 lb / 2.12 kg Black or silver
	i3-8145U 2 i5-8265U	4	2.1 GHz 1.6 GHz	3.9 GHz 3.9 GHz	4MB 6MB	DDR4-240	00 Intel	Intel UHD Graphics	Case material	Display cover: Aluminum; Bottom: PC/ABS plastic
	i7-8565U ⁴	0	1.8 GHz	4.6 GHz	8MB			020	Media reader	MicroSD card reader
	Intel UHD Graphics 620 in processor only or Intel UHD Graphics 620 in processor and AMD Radeon RX 550X Graphics, 2GB DDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports dual independent display; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)								Ports Monitor cable Bundled Accy	One USB 2.0, two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2 (with the function of Power Delivery and DisplayPort), HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole * Depending on many factors, actual data transfer speed may be lower than theoretical speed None None
Chipset Memory	Intel SoC (System on Chip) platform 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								Camera Audio support	HD720p camera, fixed focus HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio /
Display	Size / Resolution	Su	Irface Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle	Multi-touch		dual array microphone, headphone / microphone combo jack
	15.6" HD (1366x76	/	i-glare TN		16:9	400:1	90°	Non-touch	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
Multi-touch	15.6" FHD (1920x1080) Anti-glare IPS 250 nits 16:9 600:1 170° Non-touch None							Non-touch	Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Integrated model: discrete TPM 2.0, TCG Certified
Storage	Up to two drives (one M.2 SSD and one HDD) • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ • M.2 2280 SSD / SATA 6.0Gb/s • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 2							М	System Mgt	<i>Discrete model:</i> firmware TPM 2.0 integrated in chipset None r <i>Optional:</i> Touch style fingerprint reader on the palm rest None
Optane [™] memory	 M.2 2242 SSD / PCle NVMe, PCle 3.0 x 2 tane™ memory <i>Optional:</i> Intel Optane memory, PCle NVMe, PCle 3.0 x 2 total None 							Battery Max battery life	Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter MobileMark® 2014: 11 hr	
Ethernet	Gigabit Ethernet Connection, Realtek R8111GUS								,	* Battery life varies significantly with settings, usage, & other factors
	One of the following, configurable by model:								AC adapter	45W or 65W USB Type-C AC adapter
	 Realtek[®] RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card 							1		
WWAN	None None							4	Limited warranty	One of the following, configurable by model: • 1-year mail-in repair service • 1-year depot repair service
									Mil-Spec test	MIL-STD-810G military testing
									Environment	EPEAT™ Silver; ENERGY STAR [®] 7.1; RoHS-compliant
Note: The specifica	tions above may no	nt ha ava	ilahla in all r	ogione						Lenov

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

Lenovo August 2019