ThinkPad E590 Platform Specifications

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 # of Number Cores Threa	Base street	Max Turbo Frequency Cache	Memory Types	Processor Graphics	Weight Case color Case material	Starting at 4.68 lb / 2.12g Black or silver Display cover: Aluminum; Bottom: PC/ABS plastic
	i3-8145U 2 4	2.1 GHz	3.9 GHz 4MB	<u> </u>	Intel UHD Graphics		
	i5-8265U 4 8	1.6 GHz 1.8 GHz	3.9 GHz 6MB 4.6 GHz 8MB	DDR4-2400	620	Smart card reade Media reader	erNone MicroSD card reader
Graphics	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;					Ports Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2, one USB 2.0, 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	
	supports dual independent display; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)					Camera Audio support	support HD Audio, Conexant® CX11880 codec /
Chipset Memory	Intel SoC (System on Chip) platform 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets					stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack	
Display	Size / Resolution	Surface Type	Brightness Aspec	t Contrast \	/iewing Angle Multi-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
	15.6" HD (1366x768)	Anti-glare TN	220 nits 16:9	400:1	90° Non-touch	Security	Power-on password, hard disk password, supervisor password, security keyhole
	15.6" FHD (1920x1080)	Anti-glare IPS	250 nits 16:9	600:1	170° Non-touch		Integrated model: discrete TPM 2.0, TCG Certified Discrete model: firmware TPM 2.0 integrated in chipset
Multi-touch	None					vPro	None
Storage	<i>Up to two drives (one M.2 SSD and one HDD)</i> • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™				ystem™	Fingerprint reader <i>Optional:</i> Touch style fingerprint reader on the palm rest NFC None	
	 M.2 SSD / SATA 6.0Gb/s M.2 SSD / PCIe NVMe, PCIe 3.0 x 2 					Battery	Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter
Optical	 16GB Intel Optane™ memory, PCle NVMe, PCle 3.0 x 2 None 					Max battery life	MobileMark® 2014: 11 hr *Battery life varies significantly with settings, usage, & other factors
Ethernet	Gigabit Ethernet Connection, Realtek R8111GUS					AC adapter	45W or 65W USB Type-C AC adapter
WLAN +	One of the following, configurable by model:					Preload (optional) Windows® 10 Home 64 or Windows 10 Pro 64
Bluetooth™	Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card					I—————	<u></u>
	 Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card 					Mil-Spec test	MIL-STD-810G military certification
WWAN	None					Environment	ENERGY STAR® 7.0; RoHS-compliant

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

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