

ThinkPad E590 [20NB005HGE](#)

Product
ThinkPad E590

Region
EMEA

Country
Germany

Machine Type
20NB

TopSeller
TopSeller

Processor
Core i5-8265U (4C, 1.6 / 3.9GHz, 6MB)

vPro
No

Graphics
Integrated Intel UHD Graphics 620

Memory
16GBx1

Display
15.6" FHD (1920x1080) IPS

Multi-touch
None

Storage
512GB SSD M.2 PCIe NVMe

Optical
None

WLAN + Bluetooth
Intel 9260 ac, 2x2 + BT5.0

WWAN
None

Color
Black

Camera
720p

Keyboard
Non-backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
dTPM 2.0

Battery
45Wh

Power Adapter
65W USB-C

Operating System
Windows 10 Pro 64

Warranty
1-year, Depot

End of Support
Mar 5, 2025

Ann Date (mm/yy)
02/19

Notes:
Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.
<https://www.lenovo.com/hk/en/battery-info>



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ThinkPad E590 Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel® Core™ i3 / i5 / i7 Processor								Dimensions	WxDxH: 14.53" x 9.94" x 0.78"; 369mm x 252.5mm x 19.9mm		
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	Starting at 4.68 lb / 2.12g		
	i3-8145U	2	4	2.1 GHz	3.9 GHz	4MB	DDR4-2400	Intel UHD Graphics 620	Case color	Black or silver		
	i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB			Display cover:	Aluminum;		
i7-8565U	1.8 GHz			4.6 GHz	8MB	Bottom:			PC/ABS plastic			
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; supports dual independent display; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)								Smart card reader	None		
Chipset	Intel SoC (System on Chip) platform								Media reader	MicroSD card reader		
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets								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 <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i>		
Display	Size / Resolution		Surface	Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle	Multi-touch	Camera	HD720p camera, fixed focus	
	15.6" HD (1366x768)		Anti-glare	TN	220 nits	16:9	400:1	90°	Non-touch	Audio support	HD Audio, Conexant® CX11880 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack	
	15.6" FHD (1920x1080)		Anti-glare	IPS	250 nits	16:9	600:1	170°	Non-touch	Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
Multi-touch	None								UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad		
Storage	Up to two drives (one M.2 SSD and one HDD)								Security	Power-on password, hard disk password, supervisor password, security keyhole		
	<ul style="list-style-type: none"> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ M.2 SSD / SATA 6.0Gb/s M.2 SSD / PCIe NVMe, PCIe 3.0 x 2 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2 								Security chip	<i>Integrated model:</i> discrete TPM 2.0, TCG Certified <i>Discrete model:</i> firmware TPM 2.0 integrated in chipset		
Optical	None								vPro	None		
Ethernet	Gigabit Ethernet Connection, Realtek R8111GUS								Fingerprint reader	<i>Optional:</i> Touch style fingerprint reader on the palm rest		
WLAN + Bluetooth™	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 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 								NFC	None		
WWAN	None								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	<i>MobileMark® 2014:</i> 11 hr <i>* Battery life varies significantly with settings, usage, & other factors</i>		
									AC adapter	45W or 65W USB Type-C AC adapter		
									Preload (optional)	Windows® 10 Home 64 or Windows 10 Pro 64		
									Limited warranty	1-year depot repair service		
									Mil-Spec test	MIL-STD-810G military certification		
									Environment	ENERGY STAR® 7.0; RoHS-compliant		

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

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January 2018

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