

ThinkPad E590 **20NB0017GB**

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

AMD Radeon RX 550X 2GB GDDR5

Memory

8GBx1

Display

15.6" FHD (1920x1080) IPS

Multi-touch

None

Storage

1TB 5400rpm + 256GB 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

FW TPM 2.0

Battery

45Wh

Power Adapter

65W USB-C

Operating System

Windows 10 Pro 64

Warranty

1-year, Depot

End of Support

Jan 25, 2025

Ann Date (mm/yy)

12/18

Note:

* Country Code "US" is for United States, "+" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "***" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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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			Case material	Display cover: Aluminum; Bottom: PC/ABS plastic	
i7-8565U	1.8 GHz			4.6 GHz	8MB	Smart card reader			None		
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)								Media reader	MicroSD card reader	
									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	
Chipset	Intel SoC (System on Chip) platform								Camera	HD720p camera, fixed focus	
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets								Audio support	HD Audio, Conexant® CX11880 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack	
Display	Size / Resolution		Surface	Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle	Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
	15.6" HD (1366x768)		Anti-glare	TN	220 nits	16:9	400:1	90°	UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad	
	15.6" FHD (1920x1080)		Anti-glare	IPS	250 nits	16:9	600:1	170°	Security	Power-on password, hard disk password, supervisor password, security keyhole	
Multi-touch	None								Security chip	Integrated model: discrete TPM 2.0, TCG Certified Discrete model: firmware TPM 2.0 integrated in chipset	
									vPro	None	
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 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								Fingerprint reader	Optional: Touch style fingerprint reader on the palm rest	
									NFC	None	
Optical	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	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 + Bluetooth™	One of the following, configurable by model: • 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								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	
WWAN	None								Environment	ENERGY STAR® 7.0; RoHS-compliant	

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January 2018

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