

ThinkPad E590 20NB0029UK

Product
ThinkPad E590

Region
WE

Country
UK

Machine Type
20NB

TopSeller
TopSeller

Processor
Core i7-8565U (4C / 8T, 1.8 / 4.6GHz, 8MB)

Graphics
AMD Radeon RX 550X 2GB GDDR5

Chipset
Intel SoC Platform

Memory
1x 16GB DIMM DDR4-2400

Display
15.6" FHD (1920x1080) IPS 250nits Anti-glare

Multi-touch
None

Storage
512GB SSD M.2 2242 PCIe x2 NVMe

Optane Memory
None

Optical
None

WLAN + Bluetooth
Intel 9260 11ac, 2x2 + BT5.0

WWAN
None

SIM Card
None

Smart Card Reader
None

Monitor Cable
None

Bundled Accessories
None

Color
Black

Case Material
Aluminum

Camera
720p

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
FW TPM 2.0

Battery
Integrated 45Wh

Power Adapter
65W USB-C

System Management
None

Operating System
Windows 10 Pro 64

Bundled Software
None

Base Warranty
1-year, Depot

Upsell Service Bundles
None

End of Support
2025-01-25

Announce Date
2018-12-25

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.



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ThinkPad E590 Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel® Core™ i3 / i5 / i7 Processor								Dimensions Weight Case color Case material	WxDxH: 14.53" x 9.94" x 0.78"; 369mm x 252.5mm x 19.9mm Starting at 4.68 lb / 2.12 kg Black or silver Display cover: Aluminum; Bottom: PC/ABS plastic
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		
	i3-8145U	2	4	2.1 GHz	3.9 GHz	4MB	DDR4-2400	Intel UHD Graphics 620		
	i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB				
i7-8565U	1.8 GHz			4.6 GHz	8MB					
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 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								Media reader	MicroSD card reader
Memory									Ports	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
Display									Monitor cable	None
									Bundled Accy	None
									Camera	HD720p camera, fixed focus
									Audio support	HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack
Multi-touch									Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
									UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad
									Security	Power-on password, hard disk password, supervisor password, security keyhole
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 • M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2								Security chip	Integrated model: discrete TPM 2.0, TCG Certified Discrete model: firmware TPM 2.0 integrated in chipset
									System Mgt	None
									Fingerprint reader	Optional: Touch style fingerprint reader on the palm rest
Optane™ memory	Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2								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
Ethernet	Gigabit Ethernet Connection, Realtek R8111GUS								Max battery life	MobileMark® 2014: 11 hr * Battery life varies significantly with settings, usage, & other factors
									AC adapter	45W or 65W USB Type-C AC adapter
									Preload (optional)	Windows® 10 Home 64 or Windows 10 Pro 64
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								Limited warranty	1-year depot repair service
WWAN	None								Mil-Spec test	MIL-STD-810G military testing
SIM card	None								Environment	EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant

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

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