ThinkPad E590 20NB0058GE

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
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
Feb 15, 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

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)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display

Size / Resolution	Surface	Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle	Multi-touch
15.6" HD (1366x768)	Anti-glare	TN	220 nits	16:9	400:1	90°	Non-touch
15.6" FHD (1920x1080)	Anti-glare	IPS	250 nits	16:9	600:1	170°	Non-touch

Multi-touch

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

Optical

None

Ethernet

Gigabit Ethernet Connection, Realtek R8111GUS

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

WWAN

None

Dimensions

WxDxH: 14.53" x 9.94" x 0.78"; 369mm x 252.5mm x 19.9mm

Weight

Starting at 4.68 lb / 2.12g

Case color

Black or silver

Case material

Display cover: Aluminum;
Bottom: PC/ABS plastic

Smart card reader

None

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

Camera

HD720p camera, fixed focus

Audio support

HD Audio, Conexant® CX11880 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack

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

Security chip

Integrated model: discrete TPM 2.0, TCG Certified
Discrete model: firmware TPM 2.0 integrated in chipset

vPro

None

Fingerprint reader

Optional: Touch style fingerprint reader on the palm rest

NFC

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

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

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