

ThinkPad E590 **20NB005DGB**

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
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
FW TPM 2.0

Battery
45Wh

Power Adapter
65W USB-C

Operating System
Windows 10 Home 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



WWW.LENOVO.COM

This publication was developed for products and services offered in the United States and E.M.E.A countries. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors.

Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.



<http://psref.lenovo.com>

Visit psref website for the latest version of Product Specifications Reference.

© Lenovo, 2017. All rights reserved.

Lenovo

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						
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	
									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 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets								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	
Memory									Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight	
Display	Size / Resolution		Surface	Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle	UltraNav™	TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad	
	15.6" HD (1366x768)		Anti-glare	TN	220 nits	16:9	400:1	90°	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°	Security chip	Integrated model: discrete TPM 2.0, TCG Certified Discrete model: firmware TPM 2.0 integrated in chipset	
Multi-touch	None								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	
									Battery	Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter	
Optical	None								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	
Ethernet	Gigabit Ethernet Connection, Realtek R8111GUS								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		
									Environment	ENERGY STAR® 7.0; RoHS-compliant	

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

Lenovo
January 2018

Lenovo

ThinkPad E590

