

# ThinkPad E590 20NB001AIX

**Product**  
ThinkPad E590

**Region**  
EMEA

**Country**  
Italy

**Machine Type**  
20NB

**TopSeller**  
TopSeller

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

**vPro**  
No

**Graphics**  
Integrated Intel UHD Graphics 620

**Memory**  
8GBx1

**Display**  
15.6" FHD (1920x1080) IPS

**Multi-touch**  
None

**Storage**  
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**  
dTPM 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	
Graphics	i7-8565U			1.8 GHz	4.6 GHz	8MB			Smart card reader	None	
	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	
									Camera	HD720p camera, fixed focus	
Chipset	Intel SoC (System on Chip) platform								Audio support	HD Audio, Conexant® CX11880 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack	
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets								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)								Fingerprint reader	Optional: Touch style fingerprint reader on the palm rest	
	• HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™								NFC	None	
	• M.2 SSD / SATA 6.0Gb/s								Battery	Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter	
Optical	• M.2 SSD / PCIe NVMe, PCIe 3.0 x 2								Max battery life	MobileMark® 2014: 11 hr	
	• 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2								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:								Limited warranty	1-year depot repair service	
	• Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card								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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