

# ThinkPad E490 20N8000XGB

**Product**  
ThinkPad E490

**Region**  
EMEA

**Country**  
Germany

**Machine Type**  
20N8

**TopSeller**  
TopSeller

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

**vPro**  
No

**Graphics**  
Integrated Intel UHD Graphics 620

**Memory**  
8GBx1

**Display**  
14" 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

**Case Material**  
Aluminum

**Color**  
Silver

**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**  
Jan 25, 2025

**Ann Date (mm/yy)**  
12/18

## Note:

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# ThinkPad E490 Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                  |            |              |                |                     |              |                |                        |                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|----------------|---------------------|--------------|----------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | 8th Generation Intel® Core™ i3 / i5 / i7 Processor                                                                                                                                                                                                                                                               |            |              |                |                     |              |                |                        | Dimensions<br><i>Aluminum (WxDxH):</i> 12.96" x 9.53" x 0.78"; 329mm x 242mm x 19.9mm<br><i>PC/ABS (WxDxH):</i> 12.96" x 9.53" x 0.83"; 329mm x 242mm x 21.9mm<br>Weight<br>Starting at 3.87 lb / 1.75kg<br>Case color<br>Black or silver<br>Case material<br><i>Display cover:</i> Aluminum or PC/ABS plastic;<br><i>Bottom:</i> 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<br>Intel UHD Graphics 620 in processor and<br>AMD Radeon RX 550X Graphics, 2GB DDR5 memory;<br>supports external digital monitor via HDMI or USB Type-C;<br>supports dual independent display;<br>Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI) |            |              |                |                     |              |                |                        | Smart card readerNone<br>Media readerMicroSD card reader<br>PortsTwo 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                                                                                                                                                                                                                                                                              |            |              |                |                     |              |                |                        | CameraHD720p camera, fixed focus<br>Audio supportHD Audio, Conexant® CX11880 codec / stereo speakers, 1.5W 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                                                                                                                                                                                                                                          |            |              |                |                     |              |                |                        |                                                                                                                                                                                                                                                                                                                                                  |
| Display           | Size / Resolution                                                                                                                                                                                                                                                                                                |            | Surface      | Type           | Brightness          | Aspect Ratio | Contrast Ratio | Viewing Angle          | Multi-touch                                                                                                                                                                                                                                                                                                                                      |
|                   | 14.0" HD (1366x768)                                                                                                                                                                                                                                                                                              |            | Anti-glare   | TN             | 220 nits            | 16:9         | 400:1          | 90°                    | Non-touch                                                                                                                                                                                                                                                                                                                                        |
|                   | 14.0" FHD (1920x1080)                                                                                                                                                                                                                                                                                            |            | Anti-glare   | IPS            | 250 nits            | 16:9         | 600:1          | 170°                   | Non-touch                                                                                                                                                                                                                                                                                                                                        |
| Multi-touch       | None                                                                                                                                                                                                                                                                                                             |            |              |                |                     |              |                |                        | Keyboard6-row, spill-resistant, multimedia Fn keys, optional LED backlight<br>UltraNav™TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad                                                                                                                                                                             |
| Storage           | Up to two drives (one M.2 SSD and one HDD)<br>• HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™<br>• M.2 SSD / SATA 6.0Gb/s<br>• M.2 SSD / PCIe NVMe, PCIe 3.0 x 2<br>• 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2<br>None                                                            |            |              |                |                     |              |                |                        | SecurityPower-on password, hard disk password, supervisor password, security keyhole<br>Security chipIntegrated model: discrete TPM 2.0, TCG Certified<br>Discrete model: firmware TPM 2.0 integrated in chipset                                                                                                                                 |
|                   |                                                                                                                                                                                                                                                                                                                  |            |              |                |                     |              |                |                        | vProNone<br>Fingerprint readerOptional: Touch style fingerprint reader on the palm rest<br>NFCNone                                                                                                                                                                                                                                               |
| Optical           |                                                                                                                                                                                                                                                                                                                  |            |              |                |                     |              |                |                        | BatteryIntegrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter<br>Max battery lifeMobileMark® 2014: 13 hr<br>* Battery life varies significantly with settings, usage, & other factors                                                                                                    |
| Ethernet          | Gigabit Ethernet Connection, Realtek R8111GUS                                                                                                                                                                                                                                                                    |            |              |                |                     |              |                |                        | AC adapter45W or 65W USB Type-C AC adapter                                                                                                                                                                                                                                                                                                       |
| WLAN + Bluetooth™ | One of the following, configurable by model:<br>• Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card<br>• 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                                                                                                                                                                                                                                                                                       |
| WWAN              | None                                                                                                                                                                                                                                                                                                             |            |              |                |                     |              |                |                        | Limited warranty1-year depot repair service                                                                                                                                                                                                                                                                                                      |
|                   |                                                                                                                                                                                                                                                                                                                  |            |              |                |                     |              |                |                        | Mil-Spec testMIL-STD-810G military certification                                                                                                                                                                                                                                                                                                 |
|                   |                                                                                                                                                                                                                                                                                                                  |            |              |                |                     |              |                |                        | EnvironmentENERGY STAR® 7.0; RoHS-compliant                                                                                                                                                                                                                                                                                                      |

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