

# ThinkPad T480 20L50005PB

**Product**  
ThinkPad T480

**Region**  
EET

**Country**  
Poland

**Machine Type**  
20L5

**TopSeller**  
TopSeller

**Processor**  
Core i7-8550U (4C / 8T, 1.8 / 4.0GHz, 8MB)

**Graphics**  
NVIDIA GeForce MX150 2GB GDDR5

**Chipset**  
Intel SoC Platform

**Memory**  
1x 8GB DIMM DDR4-2400

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

**Multi-touch**  
None

**Storage**  
1TB HDD 5400rpm 2.5"

**Optane Memory**  
16GB Optane Memory

**Optical**  
None

**WLAN + Bluetooth**  
Intel 8265 11ac, 2x2 + BT4.1

**WWAN**  
None

**SIM Card**  
None

**Smart Card Reader**  
Smart Card Reader

**Monitor Cable**  
None

**Color**  
Black

**Case Material**  
PPS

**Camera**  
720p

**Keyboard**  
Backlit

**Fingerprint Reader**  
Fingerprint Reader

**NFC**  
None

**TPM**  
Discrete TPM 2.0

**Battery**  
Integrated 24Wh + Swappable 24Wh

**Power Adapter**  
65W USB-C

**System Management**  
None

**Operating System**  
Windows 10 Pro 64

**Bundled Software**  
None

**Warranty**  
3-year, Depot

**Upsell Service Bundles**  
None

**End of Support**  
2024-03-28

**Announce Date**  
2018-02-28

## 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 T480 Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                   |         |             |             |             |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|---------------------|-------|--------------|------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|---------|-------------|-------------|-------------|
| Processor         | 7th Generation Intel® Core™ i5 Processor                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |              |                |                     |       |              |                        | Dimensions<br>Weight                                                      | WxDxH: 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm                                                                                                                                                                                                                                                                                                                                                                        |                     |                                   |         |             |             |             |
|                   | Processor Number                                                                                                                                                                                                                                                                                                                                                                                                                                                           | # of Cores                                                                                                                                       | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics     |                                                                           | Models                                                                                                                                                                                                                                                                                                                                                                                                                            | 24Wh or 24Wh + 24Wh | 48Wh, 72Wh, or 24Wh + 48Wh / 72Wh |         |             |             |             |
|                   | i5-7200U                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                                                                                                                                                | 4            | 2.5 GHz        | 3.1 GHz             | 3MB   | DDR4-2133    | Intel HD Graphics 620  | Integrated Magnesium                                                      | 3.49 lb / 1.58 kg                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | 3.92 lb / 1.78 kg                 |         |             |             |             |
|                   | i5-7300U                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |              | 2.6 GHz        | 3.5 GHz             | 3MB   |              |                        | Integrated PPS                                                            | 3.63 lb / 1.65 kg                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | 4.08 lb / 1.85 kg                 |         |             |             |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Discrete Magnesium                                                        | 3.53 lb / 1.60 kg                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | 3.97 lb / 1.80 kg                 |         |             |             |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Discrete PPS                                                              | 3.68 lb / 1.67 kg                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | 4.12 lb / 1.87 kg                 |         |             |             |             |
|                   | or 8th Generation Intel Core i3 / i5 / i7 Processor                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                  |              |                |                     |       |              |                        | Case color                                                                | Black                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                   |         |             |             |             |
|                   | Processor Number                                                                                                                                                                                                                                                                                                                                                                                                                                                           | # of Cores                                                                                                                                       | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics     | Case material                                                             | Display cover: Magnesium Hybrid or PPS;<br>Bottom: Glass-Fiber Reinforced Plastic                                                                                                                                                                                                                                                                                                                                                 |                     |                                   |         |             |             |             |
|                   | i3-8130U                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                                                                                                                                                | 4            | 2.2 GHz        | 3.4 GHz             | 4MB   | DDR4-2400    | Intel UHD Graphics 620 | Smart card reader                                                         | Optional: Smart card reader                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                   |         |             |             |             |
|                   | i5-8250U                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4                                                                                                                                                | 8            | 1.6 GHz        | 3.4 GHz             | 6MB   |              |                        | Media reader                                                              | 4-in-1 reader (MMC, SD, SDHC, SDXC)                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                   |         |             |             |             |
|                   | i5-8350U                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |              | 1.7 GHz        | 3.6 GHz             | 6MB   |              |                        | Ports                                                                     | Two USB 3.1 Gen 1 (one Always On),<br>one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort),<br>one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP),<br>HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models),<br>headphone / microphone combo jack, optional smart card reader,<br>4-in-1 media reader (MMC, SD, SDHC, SDXC),<br>side docking connector, security keyhole |                     |                                   |         |             |             |             |
|                   | i7-8550U                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |              | 1.8 GHz        | 4.0 GHz             | 8MB   |              |                        |                                                                           | * Depending on many factors, actual data transfer speed may be lower than theoretical speed                                                                                                                                                                                                                                                                                                                                       |                     |                                   |         |             |             |             |
|                   | i7-8650U                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                  |              | 1.9 GHz        | 4.2 GHz             | 8MB   |              |                        |                                                                           | HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter<br>USB-C to DP: Lenovo USB-C to DisplayPort Adapter                                                                                                                                                                                                                                                                                                                               |                     |                                   |         |             |             |             |
| Graphics          | Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory (discrete graphics is available only on i7 models in EMEA); supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)                                                               |                                                                                                                                                  |              |                |                     |       |              |                        | Monitor cable (optional)                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                   |         |             |             |             |
| Chipset           | Intel SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                  |              |                |                     |       |              |                        | Camera (optional)                                                         | One of the following, configurable by model:                                                                                                                                                                                                                                                                                                                                                                                      |                     |                                   |         |             |             |             |
| Memory            | 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets<br>* System clocks down for processors with lower memory controller                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                  |              |                |                     |       |              |                        |                                                                           | • HD720p camera with ThinkShutter camera privacy, fixed focus<br>• IR camera and HD720p camera, fixed focus                                                                                                                                                                                                                                                                                                                       |                     |                                   |         |             |             |             |
| Display           | Some:                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio                                        |              |                |                     |       |              |                        | Audio support                                                             | HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack                                                                                                                                                                                                                                                                                      |                     |                                   |         |             |             |             |
|                   | Some:                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle             |              |                |                     |       |              |                        |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                   |         |             |             |             |
|                   | Some:                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle |              |                |                     |       |              |                        | Keyboard                                                                  | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight                                                                                                                                                                                                                                                                                                                                                                |                     |                                   |         |             |             |             |
| Multi-touch (opt) | On-cell touch, supports 10-finger gesture (FHD only)                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                  |              |                |                     |       |              |                        | UltraNav™                                                                 | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad                                                                                                                                                                                                                                                                                                                                                     |                     |                                   |         |             |             |             |
| Storage           | System has one HDD slot or one M.2 2280 slot exclusively for storage<br>Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™<br>Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD)<br>Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4<br>Some: 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, in WWAN slot as 2nd Storage, mutually exclusive with WWAN<br>* Installed M.2 SSD is PCIe 3.0 x 4 but run at PCIe 3.0 x 2 due to M.2 SSD adapter limitation |                                                                                                                                                  |              |                |                     |       |              |                        | Security                                                                  | Power-on password, hard disk password, supervisor password, security keyhole                                                                                                                                                                                                                                                                                                                                                      |                     |                                   |         |             |             |             |
| Optane™ memory    | Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                  |              |                |                     |       |              |                        | Security chip                                                             | Discrete TPM 2.0, TCG Certified                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                   |         |             |             |             |
| Optical           | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                  |              |                |                     |       |              |                        | vPro (optional)                                                           | Intel vPro Technology                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                                   |         |             |             |             |
| Ethernet          | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)<br>vPro model: Intel Ethernet Connection I219-LM (Jacksonville)                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Fingerprint reader                                                        | Optional: Touch style match on chip fingerprint reader on the keyboard bezel, anti-spoofing technology                                                                                                                                                                                                                                                                                                                            |                     |                                   |         |             |             |             |
| WLAN + Bluetooth™ | Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card<br>* Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |              |                |                     |       |              |                        | NFC (optional)                                                            | Near Field Communication                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                                   |         |             |             |             |
| WWAN (optional)   | One of the following, configurable by model (mutually exclusive with Intel Optane memory):<br>• Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)<br>• Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card<br>* For non-WWAN model, it means the model is NOT WWAN upgradable                                                                                                                      |                                                                                                                                                  |              |                |                     |       |              |                        | Battery                                                                   | Optional integrated Li-ion 24Wh battery and external Li-ion 24Wh, 48Wh, or 72Wh battery                                                                                                                                                                                                                                                                                                                                           |                     |                                   |         |             |             |             |
| SIM card (opt)    | Nano-SIM card slot, optional Verizon LTE (US) SIM card                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                  |              |                |                     |       |              |                        | Max battery life (MobileMark® 2014)                                       | Models                                                                                                                                                                                                                                                                                                                                                                                                                            | 24Wh                | 48Wh                              | 72Wh    | 24Wh + 24Wh | 24Wh + 48Wh | 24Wh + 72Wh |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Integrated model                                                          | 7.2 hr                                                                                                                                                                                                                                                                                                                                                                                                                            | 14.4 hr             | 21.8 hr                           | 14.4 hr | 21.8 hr     | 29.0 hr     |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Discrete model                                                            | 6.6 hr                                                                                                                                                                                                                                                                                                                                                                                                                            | 13.2 hr             | 19.8 hr                           | 13.6 hr | 19.8 hr     | 26.4 hr     |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | * Battery life varies significantly with settings, usage, & other factors |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                                   |         |             |             |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | AC adapter                                                                | 45W or 65W USB Type-C AC adapter                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                                   |         |             |             |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Preload                                                                   | Windows® 10 Home 64 or Windows 10 Pro 64                                                                                                                                                                                                                                                                                                                                                                                          |                     |                                   |         |             |             |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Limited warranty                                                          | One of the following, configurable by model:<br>• 1-year depot repair service<br>• 3-year/1-yr battery depot repair service<br>• 3-year/1-yr battery limited onsite service                                                                                                                                                                                                                                                       |                     |                                   |         |             |             |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Mil-Spec test                                                             | MIL-STD-810G military testing                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                                   |         |             |             |             |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                  |              |                |                     |       |              |                        | Environment                                                               | EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                           |                     |                                   |         |             |             |             |

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

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