

# ThinkPad T480 20L60013++

**Region**  
EMEA

**Machine Type**  
20L6

**TopSeller**  
No

**Processor**  
Core i5-8250U (4C, 1.6 / 3.4GHz, 6MB)

**vPro**  
No

**Graphics**  
Integrated Intel UHD Graphics 620

**Memory**  
4GBx1

**Display**  
14" HD (1366x768)

**Multi-touch**  
None

**Storage**  
500GB 7200rpm

**Optical**  
None

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

**WWAN**  
None

**SIM Card**  
None

**Smart Card Reader**  
Smart Card Reader

**Monitor Cable**  
None

**Case Material**  
PPS

**Camera**  
720p

**Keyboard**  
Backlit

**Fingerprint Reader**  
Fingerprint Reader

**NFC**  
None

**TPM**  
dTPM 2.0

**Battery**  
24Wh + 24Wh

**Power Adapter**  
65W USB-C

**Operating System**  
Windows 10 Pro 64

**Warranty**  
3-year, Onsite

**End of Support**  
Feb 6, 2023

**Ann Date (mm/yy)**  
02/18

## Note:

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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                 |             |             |             |
| or 8th Generation Intel Core i5 / i7 Processor |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |              |                |                     |       |              |                        |                                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                     |         |                                   |             |             |             |
|                                                | Processor Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Cores                                                                                                                                       | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics     | Case color                          | Black                                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |                                   |             |             |             |
|                                                | i3-8130U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2                                                                                                                                                | 4            | 2.2 GHz        | 3.4 GHz             | 4MB   | DDR4-2400    | Intel UHD Graphics 620 | Case material                       | Display cover: Magnesium Hybrid or PPS;<br>Bottom: Glass-Fiber Reinforced Plastic                                                                                                                                                                                                                                                                                                                           |                     |         |                                   |             |             |             |
|                                                | i5-8250U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                  |              | 1.6 GHz        | 3.4 GHz             | 6MB   |              |                        |                                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                     |         |                                   |             |             |             |
|                                                | i5-8350U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                  |              | 1.7 GHz        | 3.6 GHz             | 6MB   |              |                        |                                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                     |         |                                   |             |             |             |
|                                                | i7-8550U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                  |              | 1.8 GHz        | 4.0 GHz             | 8MB   |              |                        |                                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                     |         |                                   |             |             |             |
|                                                | i7-8650U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                  |              | 1.9 GHz        | 4.2 GHz             | 8MB   |              |                        |                                     |                                                                                                                                                                                                                                                                                                                                                                                                             |                     |         |                                   |             |             |             |
| 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; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)                                                                                                                                                                                  |                                                                                                                                                  |              |                |                     |       |              |                        | Smart card reader                   | Optional: Smart card reader                                                                                                                                                                                                                                                                                                                                                                                 |                     |         |                                   |             |             |             |
| Chipset                                        | Intel SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                  |              |                |                     |       |              |                        | Media reader                        | 4-in-1 reader (MMC, SD, SDHC, SDXC)                                                                                                                                                                                                                                                                                                                                                                         |                     |         |                                   |             |             |             |
| Memory                                         | 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets<br>* System clocks down for processors with lower memory controller                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                  |              |                |                     |       |              |                        | Ports                               | Two USB 3.1 Gen 1 (one Always On), USB 3.1 Type-C Gen 1, USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole<br>USB-C to VGA: Lenovo USB-C to VGA Adapter<br>USB-C to DP: Lenovo USB-C to DisplayPort Adapter |                     |         |                                   |             |             |             |
| Display                                        | Some:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio                                        |              |                |                     |       |              |                        | Monitor cable (optional)            | USB-C to DP: Lenovo USB-C to DisplayPort Adapter                                                                                                                                                                                                                                                                                                                                                            |                     |         |                                   |             |             |             |
|                                                | Some:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle             |              |                |                     |       |              |                        | Camera (optional)                   | One of the following, configurable by model:<br>• HD720p camera with ThinkShutter camera privacy, fixed focus<br>• IR camera and HD720p camera, fixed focus                                                                                                                                                                                                                                                 |                     |         |                                   |             |             |             |
|                                                | 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 |              |                |                     |       |              |                        | Audio support                       | HD Audio, Realtek® ALC3287 codec, Dolby® Audio™ Premium / stereo speakers, 2W x 2 / dual array microphone, headphone / microphone combo jack                                                                                                                                                                                                                                                                |                     |         |                                   |             |             |             |
| Multi-touch (opt)                              | On-cell touch, supports 10-finger gesture (FHD only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                  |              |                |                     |       |              |                        | Keyboard                            | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight                                                                                                                                                                                                                                                                                                                                          |                     |         |                                   |             |             |             |
| 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, 32Gb/s<br>Some: 128GB M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN<br>Some: 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as storage cache for HDD, mutually exclusive with WWAN |                                                                                                                                                  |              |                |                     |       |              |                        | UltraNav™                           | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad                                                                                                                                                                                                                                                                                                                               |                     |         |                                   |             |             |             |
| Optical                                        | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                  |              |                |                     |       |              |                        | Security                            | Power-on password, hard disk password, supervisor password, security keyhole                                                                                                                                                                                                                                                                                                                                |                     |         |                                   |             |             |             |
| Ethernet                                       | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)<br>vPro model: Intel Ethernet Connection I219-LM (Jacksonville)                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |              |                |                     |       |              |                        | Security chip                       | Discrete TPM 2.0, TCG Certified                                                                                                                                                                                                                                                                                                                                                                             |                     |         |                                   |             |             |             |
| 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                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                  |              |                |                     |       |              |                        | vPro (optional)                     | Intel vPro Technology                                                                                                                                                                                                                                                                                                                                                                                       |                     |         |                                   |             |             |             |
| 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                                                                                                                                                                                                                                                 |                                                                                                                                                  |              |                |                     |       |              |                        | Fingerprint reader                  | Optional: Touch style match on chip fingerprint reader on the keyboard bezel, anti-spoofing technology                                                                                                                                                                                                                                                                                                      |                     |         |                                   |             |             |             |
| SIM card (opt)                                 | Nano-SIM card slot, optional Verizon LTE (US) SIM card                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                  |              |                |                     |       |              |                        | NFC (optional)                      | Near Field Communication                                                                                                                                                                                                                                                                                                                                                                                    |                     |         |                                   |             |             |             |
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |              |                |                     |       |              |                        | Battery                             | Optional integrated Li-Ion 24Wh battery and external Li-Ion 24Wh, 48Wh, or 72Wh battery                                                                                                                                                                                                                                                                                                                     |                     |         |                                   |             |             |             |
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |              |                |                     |       |              |                        | 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     |
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |              |                |                     |       |              |                        | AC adapter                          | * Battery life varies significantly with settings, usage, & other factors<br>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 certification                                                                                                                                                                                                                                                                                                                                                                         |                     |         |                                   |             |             |             |
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |              |                |                     |       |              |                        | Environment                         | EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                               |                     |         |                                   |             |             |             |

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