

# ThinkPad P53s 20N6000PGE

**Product**  
ThinkPad P53s

**Region**  
WE

**Country**  
Germany

**Machine Type**  
20N6

**TopSeller**  
TopSeller

**Processor**  
Core i7-8665U (4C / 8T, 1.9 / 4.8GHz, 8MB)

**Graphics**  
NVIDIA Quadro P520 2GB GDDR5

**Chipset**  
Intel SoC Platform

**Memory**  
16GB Soldered + 16GB DIMM DDR4-2400

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

**Multi-touch**  
None

**Storage**  
1TB SSD M.2 2280 PCIe NVMe Opal2

**Optical**  
None

**WLAN + Bluetooth**  
Intel 9560 11ac, 2x2 + BT5.0

**WWAN**  
None

**SIM Card**  
None

**Smart Card Reader**  
Smart Card Reader

**Monitor Cable**  
None

**Bundled Accessories**  
None

**Color**  
Black

**Camera**  
720p + IR

**Keyboard**  
Backlit

**Fingerprint Reader**  
Fingerprint Reader

**NFC**  
None

**TPM**  
Discrete TPM 2.0

**Battery**  
Integrated 57Wh

**Power Adapter**  
65W USB-C

**System Management**  
Intel vPro

**Operating System**  
Windows 10 Pro 64

**Bundled Software**  
None

**Warranty**  
1-year, Depot

**Upsell Service Bundles**  
None

**End of Support**  
2025-07-24

**Announce Date**  
2019-06-24

## 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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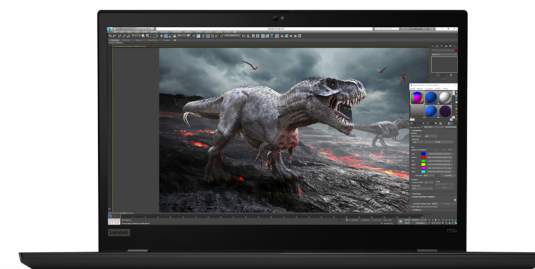
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# ThinkPad P53s Platform Specifications

Product Specifications Reference (PSREF)

|                   |                                                                                                                                                                                                                                                                                                                                                |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------|----------------|---------------------|--------------|----------------|------------------------|---------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor         | 8th Generation Intel® Core™ i7 Processor                                                                                                                                                                                                                                                                                                       |                                      |              |                |                     |              |                |                        |               | Dimensions<br>Weight<br>Case color<br>Case material                                   | WxDxH: 14.40" x 9.76" x 0.75"; 365.8mm x 248mm x 19.1mm<br>starting at 3.87 lb / 1.75 kg<br>Black<br>Display cover: PPS / 50% GF;<br>Bottom: PA / 50% GF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                   | Processor Number                                                                                                                                                                                                                                                                                                                               | # of Cores                           | # of Threads | Base Frequency | Max Turbo Frequency | Cache        | Memory Types   | Processor Graphics     |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                   | i7-8565U                                                                                                                                                                                                                                                                                                                                       | 4                                    | 8            | 1.8 GHz        | 4.6 GHz             | 8MB          | DDR4-2400      | Intel UHD Graphics 620 |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| i7-8665U          | 1.9 GHz                                                                                                                                                                                                                                                                                                                                        |                                      |              | 4.8 GHz        | 8MB                 |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Graphics          | Intel UHD Graphics 620 in processor and NVIDIA Quadro® P520, 2GB GDDR5 memory; supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 3840x2160@60Hz (USB-C); 3840x2160@30Hz (HDMI)                                                                                                    |                                      |              |                |                     |              |                |                        |               | Smart card reader<br>Media reader<br>Ports                                            | Optional: Smart card reader<br>MicroSD card reader<br>Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), one USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, microSD card reader, side docking connector, security keyhole<br>* Depending on many factors, actual data transfer speed may be lower than theoretical speed<br>HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter<br>USB-C to VGA: Lenovo USB-C to VGA Adapter<br>USB-C to DP: Lenovo USB-C to DisplayPort Adapter |
| Chipset           | Intel SoC (System on Chip) platform                                                                                                                                                                                                                                                                                                            |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Memory            | 48GB max / 2400MHz DDR4, dual-channel capable, 8GB or 16GB memory soldered to systemboard, one DDR4 SO-DIMM socket<br>* Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation                                                                                                                                        |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Display           | Size                                                                                                                                                                                                                                                                                                                                           | Resolution                           | Type         | Surface        | Brightness          | Aspect Ratio | Contrast Ratio | Color Gamut            | Viewing Angle | Monitor cable (optional)                                                              | Bundled Accy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                                          | FHD (1920x1080)                      | IPS          | Anti-glare     | 250 nits            | 16:9         | 700:1          | 45%                    | 170°          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                   | 15.6"                                                                                                                                                                                                                                                                                                                                          | UHD (3840x2160)<br>Dolby Vision™ HDR | IPS          | Anti-glare     | 500 nits            | 16:9         | 1200:1         | 100% Adobe             | 170°          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Multi-touch (opt) | On-cell touch, supports 10-finger gesture (FHD only)                                                                                                                                                                                                                                                                                           |                                      |              |                |                     |              |                |                        |               | Camera (optional)                                                                     | Audio support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Storage           | <ul style="list-style-type: none"><li>M.2 2280 SSD / SATA 6.0Gb/s</li><li>M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4</li><li>M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2</li><li>Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4</li></ul>                                                                               |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Optical           | None                                                                                                                                                                                                                                                                                                                                           |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Ethernet          | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)<br>vPro model: Intel Ethernet Connection I219-LM (Jacksonville)                                                                                                                                                                                                                |                                      |              |                |                     |              |                |                        |               | Keyboard<br>UltraNav™                                                                 | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight<br>TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| WLAN              | Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0                                                                                                                                                                                                                                                                                     |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Bluetooth™        | Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter                                                                                                                                                                                                                                                                          |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| WWAN (optional)   | One of the following, configurable by model: <ul style="list-style-type: none"><li>Wireless WAN upgradable</li><li>Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only)</li><li>Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card</li></ul> * For non-WWAN model, it means the model is NOT WWAN upgradable |                                      |              |                |                     |              |                |                        |               | Security<br>Security chip<br>System Mgt (opt)<br>Fingerprint reader<br>NFC (optional) | Power-on password, hard disk password, supervisor password, security keyhole<br>Discrete TPM 2.0, TCG Certified<br>Intel vPro Technology<br>Optional: Touch style match on chip fingerprint reader on the palm rest<br>Near Field Communication                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SIM card (opt)    | Nano-SIM card slot, optional Verizon LTE (US) SIM card                                                                                                                                                                                                                                                                                         |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                   |                                                                                                                                                                                                                                                                                                                                                |                                      |              |                |                     |              |                |                        |               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                   |                                                                                                                                                                                                                                                                                                                                                |                                      |              |                |                     |              |                |                        |               | Battery                                                                               | Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                   |                                                                                                                                                                                                                                                                                                                                                |                                      |              |                |                     |              |                |                        |               | Max battery life                                                                      | MobileMark® 2014: 15 hr (FHD model) / 10 hr (UHD model)<br>* Battery life varies significantly with settings, usage, & other factors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                   |                                                                                                                                                                                                                                                                                                                                                |                                      |              |                |                     |              |                |                        |               | AC adapter                                                                            | 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: <ul style="list-style-type: none"><li>1-year depot repair service</li><li>3-year/1-yr battery depot repair service</li><li>3-year/1-yr battery limited onsite service</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                   |                                                                                                                                                                                                                                                                                                                                                |                                      |              |                |                     |              |                |                        |               | Mil-Spec test                                                                         | MIL-STD-810G military testing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                   |                                                                                                                                                                                                                                                                                                                                                |                                      |              |                |                     |              |                |                        |               | Environment                                                                           | EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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

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