

ThinkPad P53s Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|-------------------|--|--------------------------------------|--------------|----------------|---------------------|------------|--------------|------------------------|-------------|---|--|
| Processor | 8th Generation Intel® Core™ i7 Processor | | | | | | | | | Dimensions Weight Case color Case material | <i>WxDxH:</i> 14.40" x 9.76" x 0.75"; 365.8mm x 248mm x 19.1mm starting at 3.87 lb / 1.75 kg Black <i>Display cover:</i> PPS / 50% GF; <i>Bottom:</i> 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 | | Smart card reader Media reader Ports | <i>Optional:</i> Smart card reader MicroSD card reader 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 <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i> |
| | 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) | | | | | | | | | Monitor cable (optional) | <i>HDMI to VGA:</i> Lenovo HDMI to VGA Monitor Adapter <i>USB-C to VGA:</i> Lenovo USB-C to VGA Adapter <i>USB-C to DP:</i> Lenovo USB-C to DisplayPort Adapter |
| Chipset | Intel SoC (System on Chip) platform 48GB max / 2400MHz DDR4, dual-channel capable, 8GB or 16GB memory soldered to systemboard, one DDR4 SO-DIMM socket <i>* Installed memory is actually 2666MHz but run at 2400MHz due to Intel limitation</i> | | | | | | | | | | |
| Memory | | | | | | | | | | Bundled Accy | None |
| | Display | Size | Resolution | Type | Surface | Brightness | Aspect Ratio | Contrast Ratio | Color Gamut | | |
| | 15.6" | FHD (1920x1080) | IPS | Anti-glare | 250 nits | 16:9 | 700:1 | 45% | 170° | Camera (optional) <i>One of the following, configurable by model:</i> • HD720p camera with ThinkShutter camera privacy, fixed focus • IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus | |
| | 15.6" | UHD (3840x2160) 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) | | | | | | | | | Audio support | dual array far-field microphone, headphone / microphone combo jack |
| Storage | <ul style="list-style-type: none"> • M.2 2280 SSD / SATA 6.0Gb/s • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4 • M.2 2242 SSD / PCIe NVMe, PCIe 3.0 x 2 • Intel Optane™ Memory H10 with Solid State Storage, M.2 2280, PCIe NVMe 3.0 x 4 | | | | | | | | | | |
| Optane™ memory | Intel Optane Memory H10 | | | | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad |
| Optical | • None | | | | | | | | | | |
| Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | | | Security Security chip vPro (optional) Fingerprint reader NFC (optional) | Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified Intel vPro Technology <i>Optional:</i> Touch style match on chip fingerprint reader on the palm rest Near Field Communication |
| 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 | | | | | | | | | Battery Max battery life | Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) <i>MobileMark® 2014:</i> 15 hr (FHD model) / 10 hr (UHD model) <i>* Battery life varies significantly with settings, usage, & other factors</i> |
| WWAN (optional) | <i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Integrated Mobile Broadband 4G LTE, Fibocom L830-EB, M.2 card (EMEA only) • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card <i>* For non-WWAN model, it means the model is NOT WWAN upgradable</i> | | | | | | | | | | |
| SIM card (opt) | Nano-SIM card slot, optional Verizon LTE (US) SIM card | | | | | | | | | AC adapter | 65W USB Type-C AC adapter |
| | | | | | | | | | | | |
| | | | | | | | | | | Preload | Windows® 10 Home 64 or Windows 10 Pro 64 |
| | | | | | | | | | | | |
| | | | | | | | | | | Limited warranty | <i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service |
| | | | | | | | | | | | |
| | | | | | | | | | | Mii-Spec test | MIL-STD-810G military testing |
| | | | | | | | | | | | |
| | | | | | | | | | | Environment | ENERGY STAR® 7.1; RoHS-compliant |
| | | | | | | | | | | | |

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

Lenovo
June 2019