

ThinkPad P50s Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | | Smart card reader Media reader Ports Camera (optional) Audio support | Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | |
|--|--|-------------------|-------------------|----------------|---------------------|-------|--------------|--|--|-----------------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------|---------|-------------------|-------------------|--|--|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | Processor Graphics | | | | | | | | | | | |
| | i5-6300U | 2 | 4 | 2.4 GHz | 3 GHz | 3MB | DDR3L-1600 | | | Intel HD Graphics 520 | | | | | | | | | | | |
| | i7-6500U | | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | |
| i7-6600U | 2.6 GHz | | | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M, 2GB memory; supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI) | | | | | | | Keyboard UltraNav™ Security Security chip ThinkEngine | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 1.2 TCG Certified and Firmware TPM 2.0 integrated in chipset Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | | | | | | | vPro (optional) Fingerprint reader | Intel vPro Technology Optional: Swipe style fingerprint reader on the palm rest | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio, 160° viewing angle Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle | | | | | | | Internal battery External battery Max battery life ¹⁰ (MobileMark® 2014) | Optional: Integrated Li-Polymer 3-cell (44Wh) Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) <table border="1"> <thead> <tr> <th>Models</th> <th>3 + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>12.0 hr</td> <td>16.3 hr</td> <td>20.5 hr</td> </tr> </tbody> </table> | Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | Max battery life | 12.0 hr | 16.3 hr | 20.5 hr | | | | |
| Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | | | | | | | | | | | | | | | | | | |
| Max battery life | 12.0 hr | 16.3 hr | 20.5 hr | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture | | | | | | | AC adapter | 65W Slim AC adapter or 65W AC adapter | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory | | | | | | | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) For ISV certifications, please visit www.lenovo.com/support/ISV | | | | | | | | | | | | |
| Optical | None | | | | | | | Limited warranty ¹² | One of the following, configurable by model: • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | |
| WLAN ⁴ | One of the following, configurable by model: • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | One of the following, configurable by model: • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ Weight ² | WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>5.27 lb / 2.39 kg</td> <td>4.97 lb / 2.25 kg</td> <td>5.44 lb / 2.47 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.00 lb / 2.27 kg</td> <td>5.42 lb / 2.46 kg</td> </tr> </tbody> </table> | | | | | | | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 5.27 lb / 2.39 kg | 4.97 lb / 2.25 kg | 5.44 lb / 2.47 kg | Multi-touch | - | 5.00 lb / 2.27 kg | 5.42 lb / 2.46 kg | | |
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| Case material | Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | |

| Model | 20FL000D** |
|--------------------|---------------------------------------|
| Product | ThinkPad P50s |
| Region | MEA |
| Machine Type | 20FL |
| TopSeller | TopSeller |
| Processor | Core i7-6500U (2C, 2.5 / 3.1GHz, 4MB) |
| vPro | No |
| Graphics | NVIDIA Quadro M500M 2GB |
| Memory | 8GBx1 |
| Display | 15.6" FHD (1920x1080) IPS |
| Multi-touch | None |
| Storage | 256GB SSD Opal2 |
| Optical | None |
| WLAN + Bluetooth | Intel 8260 ac, 2x2 + BT4.1 |
| WWAN | WWAN Upgradable |
| SIM Card | None |
| Smart Card Reader | Smart Card Reader |
| Camera | 720p |
| Keyboard | Backlit |
| Fingerprint Reader | Fingerprint Reader |
| Battery | 3-cell (44Wh) + 6-cell (72Wh) |
| Power Adapter | 65W |
| Operating System | Windows 10 DG Windows 7 Pro 64 |
| Warranty | 3-year, Onsite |
| Global | No |
| Ann Date (mm/yy) | 01/16 |



