

ThinkPad P50s Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Smart card reader <i>Optional</i> : Smart card reader							
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector							
	i5-6300U	2	4	2.4 GHz	3 GHz	3MB	DDR3L-1600	Intel HD Graphics 520	Camera <i>(optional)</i> HD720p resolution, low light sensitive, fixed focus							
	i7-6500U			2.5 GHz	3.1 GHz	4MB			Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack							
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 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch							
Chipset	Intel SoC (System on Chip) platform								Security Power-on password, hard disk password, supervisor password, security keyhole							
Memory	32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets								Security chip Discrete TPM 1.2 TCG Certified and Firmware TPM 2.0 integrated in chipset							
Display	<i>Some</i> : 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								ThinkEngine Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures							
	<i>Some</i> : 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle								vPro <i>(optional)</i> Intel vPro Technology							
Multi-touch <i>(opt)</i>	In-cell touch, supports 10-finger gesture								Fingerprint reader <i>Optional</i> : Swipe style fingerprint reader on the palm rest							
Storage	<i>Some</i> : SSD / SATA 6.0Gb/s (e.g. xxxG SSD)								Internal battery <i>Optional</i> : Integrated Li-Polymer 3-cell (44Wh)							
	<i>Some</i> : SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s (e.g. xxxG SSD PCIe NVMe)								External battery Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh)							
Optical	<i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™								Max battery life ¹⁰ <i>(MobileMark® 2014)</i>							
	<i>Some</i> : SSHD with 8GB NAND flash memory								<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
Models	3 + 3-cell	3 + 6-cell 48Wh	3 + 6-cell 72Wh													
Max battery life	12.0 hr	16.3 hr	20.5 hr													
Ethernet	<i>Non-vPro model</i> : Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model</i> : Intel Ethernet Connection I219-LM (Jacksonville)								AC adapter 65W Slim AC adapter or 65W AC adapter							
WLAN ⁴	<i>One of the following, configurable by model</i> : • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card								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)							
Bluetooth™	Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								For ISV certifications, please visit www.lenovo.com/support/ISV							
WWAN <i>(optional)</i>	<i>One of the following, configurable by model</i> : • 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)								Limited warranty ¹² <i>One of the following, configurable by model</i> : • 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)							
SIM card <i>(opt)</i>	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card								Mil-Spec test MIL-STD-810G military certification							
Dimensions ³ Weight ²	WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm								Environment EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant							
	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										
Case material	<i>Display cover</i> : PPS; <i>Bottom</i> : Glass-Fiber Reinforced Plastic															

Model	20FL000KUS
Product	ThinkPad P50s
Region	US
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	500GB 7200rpm
Optical	None
WLAN + Bluetooth	Intel 8260 ac, 2x2 + BT4.1
WWAN	WWAN Upgradable
SIM Card	None
Smart Card Reader	None
Camera	720p
Keyboard	Backlit
Fingerprint Reader	Fingerprint Reader
Battery	3-cell (44Wh) + 3-cell (23Wh)
Power Adapter	65W
Operating System	Windows 10 DG Windows 7 Pro 64
Warranty	3-year, Depot
Global	No
Ann Date (mm/yy)	01/16





