ThinkPad P50s Platform Specifications

Processor	6th Generation Intel® Core™ i5 / i7 Processor	Smart card reader	Optional: Smart card reader
	Processor # of # of Base Max Turbo Cache Memory Processor		4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector
	i5-6300U 2.4 GHz 3 GHz 3MB	Camera (optional)	HD720p resolution, low light sensitive, fixed focus
	17-6500U 2 4 2.5 GHz 3.1 GHz 4MB DDR3L-1600 Intel HD Graphics 520 17-6600U 2.6 GHz 3.4 GHz 4MB DDR3L-1600 1		HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Graphics	Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory);	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch
	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)	Security chip ThinkEngine	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant 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 <i>(optional)</i> 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	External battery Max battery life ¹⁰ (<i>MobileMark</i> ® 2014)	Optional: Integrated Li-Polymer 3-cell (44Wh) Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) 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		65W Slim AC adapter or 65W AC adapter
Storage	Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCle NVMe, PCle 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high 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		Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Lenovo Solution Center Lenovo Solution Center ThinkVantage Product Recovery Windows 10 Pro 64 Lenovo Solution Center Lenovo Setting Microsoft Office preloaded;
Optical	None		 Rescue and Recovery[™] purchase a product key to activate
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)		 ThinkVantage System Update Adobe® Reader® Microsoft® Office preloaded; McAfee® LiveSafe™ (30-day trial)
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		 burchase a product key to activate McAfee® LiveSafe™ (30-day trial) For ISV certifications, please visit www.lenovo.com/support/ISV
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter	Limited warranty ¹²	One of the following, configurable by model:
WWAN (optional)	Wireless WAN upgradable	,	 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)
	 Wireless WAN, Sierra Wireless EM/455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card Wireless WAN, HUAWEI ME906S, 	Mil-Spec test	MIL-STD-810G military certification
SIM card (opt)	HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card	Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant
Dimensions ³	<i>WxDxH</i> : 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm		
Weight ²	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		
Coop motoric!	Multi-touch - 5.00 lb / 2.27 kg 5.42 lb / 2.46 kg		
Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic		