

ThinkPad P50s Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor								Smart card reader	Optional: 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)		
	i5-6300U	2	4	2.4 GHz	3 GHz	3MB	DDR3L-1600	Intel HD Graphics 520	Ports	Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector		
	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™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 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	Trusted Platform Module, TCG 1.2-compliant	
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									ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures	
	Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle									vPro (optional)	Intel vPro Technology	
Multi-touch (opt)	In-cell touch, supports 10-finger gesture									Fingerprint reader	Optional: Swipe style fingerprint reader on the palm rest	
Storage	Some: SSD / SATA 6.0Gb/s (e.g. xxxG SSD)									Internal battery	Optional: Integrated Li-Polymer 3-cell (44Wh)	
	Some: 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	Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™									Max battery life ¹⁰		
	Some: SSHD with 8GB NAND flash memory									(MobileMark® 2014)		
Ethernet	None									AC adapter	65W Slim AC adapter or 65W AC adapter	
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)									Preload	Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64	Windows 10 Pro 64
	vPro model: Intel Ethernet Connection I219-LM (Jacksonville)											
WLAN ⁴	One of the following, configurable by model:									• ThinkVantage Product Recovery	• Microsoft Office preloaded; purchase a product key to activate	
Bluetooth™	• 11ac+BT, Broadcom BCM4356, 2x2, M.2 card									• Rescue and Recovery™	• McAfee® LiveSafe™ (30-day trial)	
	• 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card									• ThinkVantage System Update		
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter									• Adobe® Reader®		
										• Microsoft® Office preloaded; purchase a product key to activate		
WWAN (optional)	One of the following, configurable by model:									• McAfee® LiveSafe™ (30-day trial)	For ISV certifications, please visit www.lenovo.com/support/ISV	
WWAN (optional)	• Wireless WAN upgradable									Limited warranty ¹²	One of the following, configurable by model:	
	• Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card											• 3-year/1-yr battery depot repair service
SIM card (opt)	• Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only)									Mil-Spec test	MIL-STD-810G military certification	
	Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card											Environment
Dimensions ³	WxDxH: 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						
	Multi-touch	-		5.00 lb / 2.27 kg		5.42 lb / 2.46 kg						
Case material	Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic											

Model	20FK0008++
Product	P50s
Region	WE
Machine Type	20FK
TopSeller	No
Processor	i7-6600U (2C, 2.6 / 3.4GHz, 4MB, 1600MHz)
vPro	vPro
Graphics	NVIDIA Quadro M500M, 2GB memory
Memory	8GBx2
Display	15.5" 3K (2880x1620) IPS
Multi-touch	None
Storage	256GB SSD Opal2
Optical	None
WLAN &Bluetooth	Intel 8260 ac + BT4.1
WWAN	HUAWEI ME906S
SIM Card	None
Smart Card Reader	Smart Card Reader
Camera	720p
Backlit Keyboard	Backlit Keyboard
Numeric Keypad	Numeric Keypad
Fingerprint Reader	Fingerprint Reader
Battery Cells (internal + external)	3-cell (44Wh) + 6-cell (72wh)
Power Adapter (watt)	65W
Preload	Windows 10 DG Windows 7 Pro 64
Base Warranty	3-year onsite
Global	No
Ann Date (mm/yy)	03/16





