ThinkPad P52 Platform Specifications

Processor	8th Generation Intel® Core™ i7 Processor or Intel Xeon® E Processor	Dimensions	
	Processor Number # of Cores # of Threads Base Frequency Max Turbo Frequency Cache Memory Types Processor Graphics	Weight	WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm Non-touch model: starting at 5.65 lb (2.57kg); Multi-touch model: starting at 6.4 lb (2.9kg)
	17-8750H	Case color Case material	Black Display cover: PPS; Bottom: Magnesium/Aluminum
Graphics	Intel UHD Graphics 630 in processor and NVIDIA Quadro® P1000 (4GB memory), P2000 (4GB memory), or P3200 (6GB memory, VR ready); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports four independent displays; Max resolution: 3840X2160@60Hz (DisplayPort via Mini DisplayPort cable); 5120X2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)	Smart card reade ExpressCard Media reader Ports	Ar Optional: Smart card reader None 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Three USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort 1.4, HDMI 2.0, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole
Chipset Memory	Mobile Intel CM246 Chipset 64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets * Installed DIMMs are actually 2666MHz but run at 2400MHz due to Intel limitatio		One of the following, configurable by model: HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera, fixed focus
Display	Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 160° viewing angle	Audio support	HD Audio, Realtek® ALC3286 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / headphone / microphone combo jack, Dolby Atmos® headphone, dual array microphone
	Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch	Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight 3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad
Multi-touch (opt) Pen	Capacitive-type multi-touch, supports 10-finger gesture (4K only) None	Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified
Storage	Up to 3 drives (two M.2 SSD and one HDD) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ Some: M.2 SSD / PCle NVMe, PCle 3.0 x 4, 32Gb/s Some: 16GB Intel Optane™ memory, PCle NVMe, PCle 3.0 x 2, 16Gb/s	vPro (optional) Fingerprint reade Color calibration NFC (optional)	Intel vPro Technology rTouch style match on chip fingerprint reader on the palm rest None Near Field Communication
Optical Ethernet	None Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)	Battery Max battery life (MobileMark® 2014) AC adapter	Li-lon 90Wh battery Discrete mode: 6.1 hr) Hybrid mode: 8.9 hr 170W slim tip AC adapter
WLAN Bluetooth™ WWAN (optional)	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card	Preload	One of the following, configurable by model: • Windows® 10 Home 64 • Windows 10 Pro 64
SIM card (opt)	Nano-SIM card slot, optional Verizon LTE (US) SIM card	Limited warranty	 Windows 10 Pro 64 for Workstations One of the following, configurable by model: 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service
		Mil-Spec test	MIL-STD-810G military certification
		Environment	EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant
			Lenovo

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