ThinkPad P52 Platform Specifications

Product Specifications Reference (PSREF)

Processor	8th Generation Intel [®] Core [™] i7 Processor or Intel Xeon [®] E Processor	Dimensions	<i>WxDxH:</i> 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
	Processor # of # of Base Max Turbo Cache Memory Processor Number Cores Threads Frequency Frequency Cache Memory Processor	Weight	<i>WxDxH(Touch):</i> 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm <i>Non-touch model:</i> starting at 5.4 lb (2.45kg); <i>Multi-touch model:</i> starting at 6.4 lb (2.9kg)
	i7-8750H 2.2 GHz 4.1 GHz 9MB i7-8850H 6 12 2.6 GHz 4.3 GHz 9MB E-2176M 2.7 GHz 4.4 GHz 12MB Intel UHD Graphics 630	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)	ExpressCard Media reader Ports	r 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 128GB non-ECC or 64GB ECC max / 2400MHz DDR4 (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 limitation		 <i>One of the following, configurable by model:</i> HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera, fixed focus HD Audio, Realtek® ALC3286 codec,
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		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 <i>(opt)</i> Pen	Capacitive-type multi-touch, supports 10-finger gesture (4K only) Supports pen accessory, please see the accessory compatibility for details	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 / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s	Fingerprint reader Color calibration	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)	Max battery life (MobileMark® 2014)	Li-Ion 90Wh battery Discrete mode: 6.1 hr) Hybrid mode: 8.9 hr
WLAN Bluetooth™ WWAN <i>(optional)</i>	Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card	AC adapter 170W slim tip AC adapter 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
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