ThinkPad P50 Platform Specifications

Product Specifications Reference (PSREF)

Processor	i7-6700HQ	Base FrequencyMax Turbo FrequencyCache2.6 GHz3.5 GHz6MB	Mamani	Processor Graphics Intel HD Graphics	ExpressCard Media reader Ports	er <i>Optional:</i> Smart card reader One slot (ExpressCard/34) 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector
	E3-1505M v5 4 8	2.7 GHz 3.6 GHz 8MB 2.8 GHz 3.7 GHz 8MB 2.9 GHz 3.8 GHz 8MB	DDR4-2133	530 Intel HD Graphics P530	Camera (optional) Audio support	I/)HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack
Graphics	Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro [®] M1000M (2GB or 4GB memory) or M2000M (4GB memory); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports four independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 3840x2160@30Hz (HDMI) Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits,				Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad Security Power-on password, hard disk password, supervisor password, security keyhole	
Chipset Memory Display					Security chip ThinkEngine Discrete TPM 1.2 TCG Certified and Firmware TPM 2.0 integrated in chipset Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures VPro (optional) Intel vPro Technology Fingerprint reader Touch style fingerprint reader on the palm rest Color calibration Optional: Pantone [®] color calibrator by X-Rite [®] color calibration sensor in palm rest	
Multi-touch <i>(opt)</i> Pen <i>(optional)</i>	 Some: 15.6 (Jobernin) Find (Jacox roto), anti-glate, LED backlight, if 3, 250 fitts, 16.9 aspect ratio, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 178° viewing angle Capacitive-type multi-touch, supports 10-finger gesture, 220 nits ThinkPad Pen Pro, active pen for multi-touch display Up to 3 drives (two M.2 SSD and one HDD) HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2) M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe) None 			viewing angle t, IPS, 300 nits,	Battery Max battery life ¹⁰ (<i>MobileMark</i> ® 2014) AC adapter	Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)
Storage				M.2 PCIe NVMe)	Preload	Some:Genuine Windows® 7 Professional 64Windows 10 Pro 64 • Lenovo Solution CenterSome:Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64• Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Lenovo Setting
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)					Lenovo Solution Center Lenovo SHAREit ThinkVantage Product Recovery • Microsoft Office preloaded; purchase a product key to activate • McAfee [®] LiveSafe™ (30-day trial)
WLAN⁴ Bluetooth™	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter			apter		 Rescue and Recovery™ ThinkVantage System Update
WWAN (optional) SIM card	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card Micro-SIM card slot			GNSS, M.2 card	 Adobe[®] Reader⁶ Microsoft[®] Office preloaded; purchase a product key to activate McAfee[®] LiveSafe[™] (30-day trial) 	
Dimensions ³	<i>WxDxH:</i> 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm <i>WxDxH(Touch):</i> 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm			m x 24.5-29.4mm		For ISV certifications, please visit www.lenovo.com/support/ISV
Weight ²	Models 4-ce Non-touch 5.6 lb / 2 Multi-touch 6.2 lb / 2	ell 6-cell 2.55kg 5.9 lb / 2.6	7kg			 ¹² One of the following, configurable by model: 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)
Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum					MIL-STD-810G military certification
					Environment	EPEAT [™] Gold (US only); ENERGY STAR [®] 6.1; GREENGUARD [®] ; RoHS-compliar

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