## ThinkPad P53 Platform Specifications

Processor	9th Generation Intel <sup>®</sup> Core <sup>™</sup> i5 / i7 / i9 Processor or Intel Xeon <sup>®</sup> E Processor										Dimensions	WxDxH (non-touch): 14.86" x 9.93" x 0.96-1.16";	
	Processor Number	+ +	# of Threads		ncy Free		ine -	emory Types	Proce: Graph			377.4mm x 252.3mm x 24.5-29.4mm WxDxH (multi-touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm	
	i5-9400H i7-9750H	4	8	2.5 G 2.6 G	Hz 4.5	GHz 8M GHz 12M	ЛB	Ir	Intel UHD Grap		Weight	Non-touch model: starting at 5.51 lb / 2.5 kg; Multi-touch model: starting at 6.4 lb / 2.9 kg	
	i7-9850H i9-9880H	6 8	12 16	2.6 G 2.3 G		GHz 12M GHz 16M		R4-2666	630		Case color Case material	Black Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum	
	E-2276M	6	12	2.8 G	Hz 4.7	GHz 12M	ИВ	Ir	Intel UHD Graphics P630		Smart card reade	er Optional: Smart card reader	
	Intel UHD Graphics 630 or P630 in processor and NVIDIA® Quadro® T1000 (4GB GDDR5), T2000 (4GB GDDR5), RTX 3000 (6GB GDDR6, VR ready), RTX 4000 Max-Q (8GB GDDR6, VR ready), or RTX 5000 Max-Q (16GB GDDR6, VR ready); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt <sup>™</sup> ; supports five independent displays; Max resolution: 5K@60Hz (Thunderbolt); 4K@60Hz (USB-C or HDMI)										ExpressCard Media reader Ports	None 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (with the function of PD and DP), 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), security keyhole	
Memory	Mobile Intel CM246 Chipset 128GB max / 2666MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets										- Monitor cable	* Power Delivery only supports power-out for charging peripherals * USB-C Dock is not supported in right-side USB-C port * Depending on many factors, actual data transfer speed may be lower than theoretical speed	
Display	Size Resolution			Туре	Surface	Brightness F		ct Contrast	t Color Gamut	Viewing Angle	(optional)	SB-C to VGA: Lenovo USB-C to VGA Adapter SB-C to DP: Lenovo USB-C to DisplayPort Adapter	
	15.6" FHD		,	IPS A	nti-glare	300 nits	16:9	700:1	72%	160°	Bundled Accy	None	
	15.6" HDR	(1920x1 400, y Vision™	<i>'</i>	IPS A	nti-glare	500 nits	16:9	1200:1	72%	160°	Camera (optional	<ul> <li>I) One of the following, configurable by model:</li> <li>HD720p camera with ThinkShutter camera privacy, fixed focus</li> <li>IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus</li> </ul>	
	15.6" HDR Dolby	y Vision		IPS A	nti-glare	500 nits	16:9	1200:1	100%	170°	Audio support	HD Audio, Synaptic <sup>®</sup> CX11880 codec / stereo speakers, 2W x 2 / dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos <sup>®</sup> sound system	
	15.6" HDR Dolby	(3840x2 500 True y Vision, -touch	Black, C	DLED	AR, AS	350 nits (peak 400 nits)	16:9	100000:	100% DCI-P3	170°	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	
	Capacitive-type multi-touch, supports 10-finger gesture (UHD only), anti-reflection (AR), anti-smudge (AS) coating										Security Security chip	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified	
Storage	Supports pen accessory, please see the accessory compatibility for details <i>Up to 3 drives</i> • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System <sup>™</sup> • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4										vPro (optional) Fingerprint reade Color calibration NFC (optional)	Intel vPro Technology r Touch style match on chip fingerprint reader on the palm rest <i>Optional:</i> X-Rite Pantone factory color calibration (UHD model only) Near Field Communication	
RAID (optional) Optical	<i>i Optional:</i> Intel Optane memorý, PCIe NVMe, PCIe 3.0 x 2 RAID 0/1/5 support None										Battery Max battery life ( <i>MobileMark</i> <sup>®</sup> 2014) AC adapter	Integrated Li-ion 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr) <i>Discrete mode:</i> 8 hr; <i>Hybrid mode:</i> 13 hr * <i>Battery life varies significantly with settings, usage, &amp; other factors</i> 170W or 230W slim tip AC adapter	
	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)										Preload	One of the following, configurable by model:	
Bluetooth™ <i>(opť)</i>	Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter											<ul> <li>Windows<sup>®</sup> 10 Home 64</li> <li>Windows 10 Pro 64</li> <li>Windows 10 Pro 64 for Workstations</li> </ul>	
	One of the following, configurable by model: • Wireless WAN upgradable • Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card * For non-WWAN model, it means the model is NOT WWAN upgradable Nano-SIM card slot, optional Verizon LTE (US) SIM card										Limited warranty	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 testing	
											Environment	EPEAT™ Silver; ENERGY STAR <sup>®</sup> 7.1; RoHS-compliant	

Note: The specifications above may not be available in all regions.