ThinkPad P53 Platform Specifications

Processor	9th Generation Intel® Core™ i5 / i7 / i9 Processor or Intel Xeon® E Processor									r	Dimensions	WxDxH (non-touch): 14.86" x 9.93" x 0.96-1.16";
	Processor Number	umber Cores Threads Frequency		ncy Fre	quency	ncy Cache Typ		Processor Graphics			377.4mm x 252.3mm x 24.5-29.4mm *DxH (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	7-9750H 6 12		2.5 GI 2.6 GI	Hz 4.5	3 GHz 8M 5 GHz 12N	IB	In	tel UHD Graphics		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		6 GHz 12M 8 GHz 16M	— 11111	4-2666			Case color Case material	Black Display cover: Glass-Fiber Reinforced Plastic;
	E-2276M	6	12	2.8 G	Hz 4.7	7 GHz 12M	IB	In	Intel UHD Graphics P630			Bottom: Magnesium/Aluminum 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 (8GB GDDR6, VR ready), or RTX 5000 (16GB GDDR6, VR ready); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; 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
	Mobile Intel CM246 Chipset 128GB max / 2666MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets * 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 theoretic * HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter											
Display	Size Resolution			Type S	Surface	Brightness	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	(optional)	USB-C to VGA: Lenovo USB-C to VGA Adapter USB-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
	FHD (1920x1080) HDR 400, Dolby Vision™			IPS A	nti-glare	500 nits	16:9	1200:1	72%	160°	Camera (optional)	One of the following, configurable by model: HD720p camera with ThinkShutter camera privacy, fixed focus IR camera and HD720p camera with ThinkShutter camera privacy, fixed focus
	UHD (3840x2160) HDR 400, Dolby Vision			IPS A	Anti-glare 500 nits		16:9	1200:1	100%	170°	Audio support	HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2 / dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system
	15.6" HDR Dolby	(3840x2 500 Tru y Vision, touch	ie Bláck,	OLED /	AR, AS	350 nits (peak 400 nits)	16:9	100000:1	100% DCI-P3	170°	Keyboard UltraNav™	3-button Mylar surface multi-touch touchpad
(-1-7	Capacitive-type multi-touch, supports 10-finger gesture (UHD only), anti-reflection (AR), anti-smudge (AS) coating										Security Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified	
Pen Storage											vPro <i>(optional)</i> Fingerprint reade	gerprint reader Touch style match on chip fingerprint reader on the palm rest
Ü	• HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™										Color calibration NFC (optional)	
RAID (optional) Optical	y Optional: Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2 RAID 0/1/5 support										Battery Max battery life (MobileMark® 2014)	
Ethernet	TVOIT-VI TO TRIODEI. IIILEI ELITETTIEL CONTIECTION 12 13-V (GACKSONVIIIC)										AC adapter Operating system	170W or 230W slim tip AC adapter One of the following, configurable by model:
Bluetooth™ (opt)	Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter											 Windows® 10 Home 64 Windows 10 Pro 64
	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	 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 testing
											Environment	EPEAT™ Silver; ENERGY STAR® 7.1; RoHS-compliant