ThinkPad P53 Platform Specifications

Processor	9th Generation Intel® Core™ i5 / i7 / i9 Processor or Intel Xeon® E Processor										Dimensions	WxDxH (non-touch): 14.86" x 9.93" x 0.96-1.16";
	Number Cores Threa		# of Threads	Base Frequency	Max Turbo Frequency Cach		1	nory pes	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	6	8 12	2.5 GHz 2.6 GHz	4.3 GHz 4.5 GHz	8MB 12MB	-	Int	Intel UHD Graphics 630		Weight	Non-touch model: starting at 5.51 lb / 2.5 kg;
	i7-9750H	6	12	2.6 GHz	4.6 GHz	12MB	1	1-2666			Case color	Multi-touch model: starting at 6.4 lb / 2.9 kg Black
	i9-9880H	8	16	2.3 GHz	4.8 GHz	16MB	- DDN4				Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum
	E-2276M	6	12	2.8 GHz	4.7 GHz	12MB		Int	ntel UHD Graphics P630		Smart card reade	or 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™; 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
											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 HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
Display	Size Resolution			Type Surf	ace Brigh	Brightness A		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 Anti-	glare 300		Ratio 16:9	700:1	72%	160°	Bundled Accy	None
	FHD (1920x1080) 15.6" HDR 400, Dolby Vision™		′	IPS Anti-	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 Anti-	glare 500	500 nits		3:9 1200:1	100%	170°		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	(3840x 500 Tru y Vision -touch	ue Bláck,	OLED AR,	AS (pe	nits eak nits)	16:9	100000:1	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
Multi-touch (opt) Pen	Capacitive-type multi-touch, supports 10-finger gesture (UHD only), anti-reflection (AR), anti-smudge (AS) coating 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 • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ • M.2 2280 SSD / PCIe NVMe, PCIe 3.0 x 4										vPro (optional) Fingerprint reade Color calibration NFC (optional)	Intel vPro Technology rTouch style match on chip fingerprint reader on the palm rest Optional: X-Rite Pantone factory color calibration (UHD model only) Near Field Communication
RAID (optional) Optical	y <i>Optional:</i> Intel Optane memory, PCIe NVMe, PCIe 3.0 x 2 RAID 0/1/5 support None										Battery Max battery life (MobileMark® 2014) AC adapter	Integrated Li-ion 90Wh battery, supports Rapid Charge (charge up to 80% in 1hr) Discrete mode: 8 hr; Hybrid mode: 13 hr * Battery life varies significantly with settings, usage, & other factors 170W or 230W slim tip AC adapter
Ethernet	TVOT-VI TO MODEL. ITTEL ELITETTE CONTINECTION 12 TO V (DECKSONVIIIC)										Preload	One of the following, configurable by model:
Bluetooth™ (opt)	th™ (opt) Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter											 Windows® 10 Home 64 Windows 10 Pro 64 Windows 10 Pro 64 for Workstations
	 IAN (optional) 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 I card (opt) 										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® 7.1; RoHS-compliant	