## ThinkPad P53 Platform Specifications

Processor	Oth Congration Intol® C	oro™i∈ /	i7 / i0 Dro	000001 01 1	atal Va	on® E D-	000000	,	Dimensions	Discoursions M/4D41/(non-touch), 44.00ll v.0.001 4.0ll	
Processor	9th Generation Intel® Coressor # of # of Number Cores Thread	Ва		Turbo Cachi	Mer	mory pes	Proces Graph	ssor	Dimensions	WxDxH (non-touch): 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH (multi-touch): 14.86" x 9.93" x 1.02-1.21";	
	i5-9400H 4 8 i7-9750H 6 12 i7-9850H 6 12 i9-9880H 8 16	2.5 ( 2.6 ( 2.6 ( 2.3 (	GHz 4.3 GHz 4.5 GHz 4.6	GHz 8MB GHz 12ME GHz 12ME GHz 16ME	3 DDB4		Intel UHD Graphics 630		Case color Case material Smart card reader	377.4mm x 252.3mm x 25.8-30.7mm  Non-touch model: starting at 5.51 lb / 2.5 kg;  Multi-touch model: starting at 6.4 lb / 2.9 kg  Black Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum  er Optional: Smart card reader	
	E-2276M 6 12	2.8 (		GHz 12ME	7	Int	ntel UHD Graphics P630				
Graphics	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 * 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		
	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 theoretical speed	
Display	Size Resolution	Туре	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 (1920x1080)	IPS .	Anti-glare	300 nits	16:9	700:1	72%	160°	Bundled Accy	None	
	15.6" FHD (1920x1080) HDR 400, Dolby Vision™	IPS .	Anti-glare	500 nits	16:9	1200:1	72%	160°	Camera (optional) Audio support	) 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   HD Audio, Synaptic® CX11880 codec / stereo speakers, 2W x 2 / dual array far-field microphone, headphone / microphone combo jack, Dolby Atmos® sound system	
	UHD (3840x2160) HDR 400, Dolby Vision	IPS .	Anti-glare	500 nits	16:9	1200:1	100%	170°			
	15.6" UHD (3840x2160) HDR 500 True Black Dolby Vision, Multi-touch	OLED	AR, AS	350 nits (peak 400 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 vPro (optional)	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 2.0, TCG Certified Intel vPro Technology	
Storage	Up to 3 drives • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™								Fingerprint reader Color calibration NFC (optional)	r Touch style match on chip fingerprint reader on the palm rest	
Optane™ memory RAID <i>(optional)</i> Optical	ory <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)		
Ethernet	TVOTEVE TO THOUGH. ITLES ESSENTIAL CONTINUES TO V (OUCKSONVING)								AC adapter Operating system	170W or 230W slim tip AC adapter  One of the following, configurable by model:	
Bluetooth™ (opt)	nal) Intel Wi-Fi 6 AX200, Wi-Fi 2x2 802.11ax + Bluetooth 5.0 pt) 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	
	<ul> <li>al) One of the following, configurable by model:</li> <li>Wireless WAN upgradable</li> <li>Integrated Mobile Broadband 4G LTE-A, Fibocom L850-GL, M.2 card</li> <li>For non-WWAN model, it means the model is NOT WWAN upgradable</li> <li>Nano-SIM card slot, optional Verizon LTE (US) SIM card</li> </ul>								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	





