

ThinkPad P51 Platform Specifications

Product Specifications Reference (PSREF)

Processor	7th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v6 Family								Dimensions	WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics		Weight	WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm		
	i7-7700HQ	4	8	2.8 GHz	3.8 GHz	6MB	DDR4-2400	Intel HD Graphics 630			Models	4-cell	6-cell
	i7-7820HQ			2.9 GHz	3.9 GHz	8MB		Intel HD Graphics P630			Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
	E3-1505M v6			3.0 GHz	4.0 GHz						Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg
E3-1535M v6	3.1 GHz			4.2 GHz									
Graphics	Intel HD Graphics 630 or P630 in processor and NVIDIA Quadro® M1200M or M2200M, 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); 4096x2160@24Hz (HDMI)								Case color	Black			
									Case material	Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum			
Smart card reader									Optional: Smart card reader				
ExpressCard									One slot (ExpressCard/34)				
Media reader									4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card				
Ports									Four USB 3.1 Gen 1 / USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort 1.2a, HDMI 1.4b, Ethernet (RJ-45), Dock connector				
Camera (optional)									HD720p resolution, fixed focus				
Audio support									HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack				
Keyboard									6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight				
UltraNav™									3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad				
Security									Power-on password, hard disk password, supervisor password, security keyhole				
Security chip									Discrete TPM 2.0, TCG Certified				
vPro (optional)									Intel vPro Technology				
Fingerprint reader									Touch style match on chip fingerprint reader on the palm rest				
Color calibration									Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest				
NFC									None				
Battery									Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh)				
Max battery life ¹⁰									Model	4-cell	6-cell		
(MobileMark® 2014)									Discrete Graphics	4.5 hr	6.1 hr		
									Hybrid Graphics	6.5 hr	8.9 hr		
AC adapter									170W AC adapter				
Preload									Some: Windows® 10 Home 64 Some: Windows 10 Pro 64				
									• Lenovo Companion				
									• Lenovo Setting				
									• Microsoft Office preloaded; purchase a product key to activate				
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 certification				
Environment									EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant				