

ThinkPad P71 Platform Specifications

Product Specifications Reference (PSREF)

Processor	7th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v6 Family								Dimensions Weight Case color Case material	WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm Starting at 7.3 lb (3.3kg) Black Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum						
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics								
	i7-7700HQ	4	8	2.8 GHz	3.8 GHz	6MB	DDR4-2400	Intel HD Graphics 630								
	i7-7820HQ			2.9 GHz	3.9 GHz	8MB		Intel HD Graphics P630								
	E3-1505M v6			3.0 GHz	4.0 GHz											
E3-1535M v6	3.1 GHz			4.2 GHz												
Graphics	Intel HD Graphics 630 or P630 in processor and NVIDIA Quadro® M620M (2GB memory), P3000M (6GB memory), P4000M (8GB memory), or P5000M (16GB 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)								Smart card reader ExpressCard Media reader Ports	Optional: Smart card reader One slot (ExpressCard/34) 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Four USB 3.1 Gen 1 / USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort 1.2a, HDMI 1.4b, Ethernet (RJ-45), Dock connector						
Chipset	Mobile Intel CM238 Chipset								Camera (optional)	HD720p resolution, fixed focus						
Memory	64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets								Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						
Display	Some: 17.3" (439mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 72% gamut, 170° viewing angle Some: 17.3" (439mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 90% gamut, 170° viewing angle								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and 3-button Mylar surface multi-touch touchpad						
Multi-touch	None								Security	Power-on password, hard disk password, supervisor password, security keyhole						
Pen	None								Security chip vPro (optional)	Discrete TPM 2.0, TCG Certified Intel vPro Technology						
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™								Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel						
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in								Color calibration NFC	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest None						
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								Battery	Li-Ion 8-cell (96Wh)						
WLAN	Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card								Max battery life (MobileMark® 2014)	<table><tr><th>Mode</th><th>Discrete Graphics</th><th>Hybrid Graphics</th></tr><tr><td>Max battery life</td><td>9.8 hr</td><td>14.25 hr</td></tr></table>	Mode	Discrete Graphics	Hybrid Graphics	Max battery life	9.8 hr	14.25 hr
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Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter * Intel 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS								AC adapter	170W or 230W AC adapter						
WWAN (optional)	One of the following, configurable by model: • Wireless WAN upgradable • Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card								Preload	Some: Windows® 10 Home 64 Some: Windows 10 Pro 64 • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate						
SIM card (opt)	Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) 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 certification						
									Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant						