

ThinkPad P71 Platform Specifications

Processor	7th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v6 Family							
	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			Intel HD Graphics P630
	E3-1535M v6			3.1 GHz	4.2 GHz			
Graphics	Intel HD Graphics 630 or P630 in processor and NVIDIA Quadro® M620 (2GB memory), M2200 (4GB memory), P3000 (6GB memory), P4000 (8GB memory), or P5000 (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)							
Chipset Memory	Mobile Intel CM238 Chipset 64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets							
Display	<i>Some:</i> 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 <i>Some:</i> 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							
Multi-touch Pen	None None							
Storage	<i>Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay)</i> • HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ • M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s							
RAID (optional) Optical (optional)	RAID 0/1 support DVD burner, 9.5mm high, fixed, tray-in							
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)							
WLAN Bluetooth™	Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card 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							
WWAN (optional)	<i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card							
SIM card (opt)	Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card							

Dimensions	WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm		
Weight	Starting at 7.3 lb (3.3kg)		
Case color	Black		
Case material	<i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum		
Smart card reader	<i>Optional:</i> 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), two USB Type-C / Thunderbolt 3, Mini DisplayPort 1.2a, HDMI 1.4b, Ethernet (RJ-45), Dock connector <i>* Depending on many factors, actual data transfer speed may be lower than theoretical speed</i> <i>Optional:</i> Lenovo Mini-DisplayPort to DisplayPort Monitor Cable		
Monitor cable			
Camera (<i>optional</i>)	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 (<i>optional</i>)	Intel vPro Technology		
Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel		
Color calibration	<i>Optional:</i> Pantone® color calibrator by X-Rite® color calibration sensor in palm rest		
NFC	None		
Battery	Li-ion 8-cell (96Wh)		
Max battery life			
(<i>MobileMark® 2014</i>)	<i>Mode</i>	<i>Discrete Graphics</i>	<i>Hybrid Graphics</i>
	<i>Max battery life</i>	9.8 hr	14.25 hr
	<i>* Battery life varies significantly with settings, usage, & other factors</i>		
AC adapter	170W or 230W slim tip AC adapter		
Preload	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Windows® 10 Home 64 Windows 10 Pro 64 Windows 10 Pro 64 for Workstations 		
Limited warranty	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 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™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant		

Note: The specifications above may not be available in all regions.