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		
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 — Mobile Intel CM238 Chipset
Memory — 64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

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
Multi-touch — None
Pen — None

Storage — *Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay)*
• 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)* — RAID 0/1 support
Optical *(optional)* — DVD burner, 9.5mm high, fixed, tray-in

Ethernet — *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN — Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
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

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
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 — *Display cover:* Glass-Fiber + PPS;
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), two USB Type-C / Thunderbolt 3, Mini DisplayPort 1.2a, HDMI 1.4b, Ethernet (RJ-45), Dock connector
* Depending on many factors, actual data transfer speed may be lower than theoretical speed
Monitor cable — *Optional:* Lenovo Mini-DisplayPort to DisplayPort Monitor Cable

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 keyboard bezel
Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest
NFC — None

Battery — Li-ion 8-cell *(96Wh)*
Max battery life *(MobileMark® 2014)*

Mode	Discrete Graphics	Hybrid Graphics
Max battery life	9.8 hr	14.25 hr

* Battery life varies significantly with settings, usage, & other factors
AC adapter — 170W or 230W slim tip AC adapter

Preload — *One of the following, configurable by model:*
• Windows® 10 Home 64
• Windows 10 Pro 64
• Windows 10 Pro 64 for Workstations

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™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

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