

# ThinkPad P71 20HK0002++

**Product**  
ThinkPad P71

**Region**  
EMEA

**Machine Type**  
20HK

**TopSeller**  
TopSeller

**Processor**  
Core i7-7820HQ (4C, 2.9 / 3.9GHz, 8MB)

**vPro**  
vPro

**Graphics**  
NVIDIA Quadro P3000 6GB

**Chipset**  
Intel CM238

**Memory**  
8GBx2 non-ECC

**Display**  
17.3" FHD (1920x1080) IPS

**Multi-touch**  
None

**Pen**  
None

**Storage**  
512GB SSD M.2 PCIe NVMe Opal2

**RAID**  
No

**Optical**  
DVD±RW

**WLAN + Bluetooth**  
Intel 8265 ac, 2x2 + BT4.1

**WWAN**  
WWAN Upgradable

**SIM Card**  
None

**Smart Card Reader**  
Smart Card Reader

**Monitor Cable**  
None

**Camera**  
720p

**Keyboard**  
Backlit

**Color Calibrator**  
X-Rite

**Fingerprint Reader**  
Fingerprint Reader

**NFC**  
None

**TPM**  
dTPM 2.0

**Battery**  
8-cell (96Wh)

**Power Adapter**  
230W Slim Tip

**Operating System**  
Windows 10 Pro 64

**Warranty**  
3-year, Onsite

**End of Support**  
May 4, 2023

**Ann Date (mm/yy)**  
04/17

#### Notes:

Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences.  
<https://www.lenovo.com/hk/en/battery-info>



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# ThinkPad P71 Platform Specifications

Product Specifications Reference (PSREF)

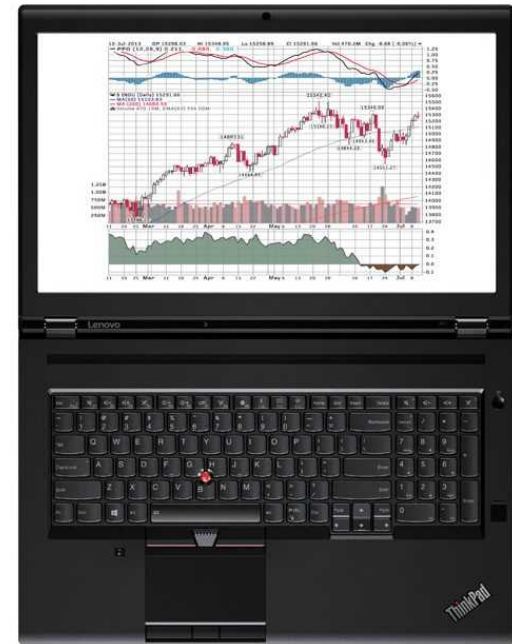


Processor	7th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v6 Family								Dimensions	<i>WxDxH:</i> 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm								
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Weight	Starting at 7.3 lb (3.3kg)								
	i7-7700HQ	4	8	2.8 GHz	3.8 GHz	6MB	DDR4-2400	Intel HD Graphics 630	Case color	Black								
	i7-7820HQ			2.9 GHz	3.9 GHz			Case material	<i>Display cover:</i> Glass-Fiber + PPS; <i>Bottom:</i> Magnesium/Aluminum									
	E3-1505M v6			3.0 GHz	4.0 GHz	8MB		Intel HD Graphics P630	Smart card reader	<i>Optional:</i> Smart card reader								
E3-1535M v6	3.1 GHz			4.2 GHz	ExpressCard			One slot (ExpressCard/34)										
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)								Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card								
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								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>								
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								Monitor cable	<i>Optional:</i> Lenovo Mini-DisplayPort to DisplayPort Monitor Cable								
Multi-touch Pen	None None								Camera ( <i>optional</i> )	HD720p resolution, fixed focus								
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								Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack								
RAID ( <i>optional</i> )	RAID 0/1 support								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight								
Optical ( <i>optional</i> )	DVD burner, 9.5mm high, fixed, tray-in								UltraNav™	3-button Mylar surface multi-touch touchpad								
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville)								Security	Power-on password, hard disk password, supervisor password, security keyhole								
WLAN	Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card								Security chip	Discrete TPM 2.0, TCG Certified								
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter <i>* Intel 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS</i>								vPro ( <i>optional</i> )	Intel vPro Technology								
WWAN ( <i>optional</i> )	<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								Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel								
SIM card ( <i>opt</i> )	Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card								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> )	<table border="1"> <thead> <tr> <th>Mode</th> <th>Discrete Graphics</th> <th>Hybrid Graphics</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>9.8 hr</td> <td>14.25 hr</td> </tr> </tbody> </table>			Mode	Discrete Graphics	Hybrid Graphics	Max battery life	9.8 hr	14.25 hr
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Max battery life	9.8 hr	14.25 hr																
									AC adapter	<i>* Battery life varies significantly with settings, usage, &amp; other factors</i> 170W or 230W slim tip AC adapter								
									Preload	<i>One of the following, configurable by model:</i> • 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> • 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								

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

Lenovo  
September 2018

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