

# ThinkPad P71 20HK0000++

**Region**  
EMEA

**Machine Type**  
20HK

**TopSeller**  
TopSeller

**Processor**  
Core i7-7700HQ (4C, 2.8 / 3.8GHz, 6MB)

**vPro**  
No

**Graphics**  
NVIDIA Quadro M620 2GB

**Chipset**  
Intel CM238

**Memory**  
8GBx1 non-ECC

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

**Multi-touch**  
None

**Pen**  
None

**Storage**  
256GB 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**  
170W

**Operating System**  
Windows 10 Pro 64

**Warranty**  
3-year, Onsite

**End of Support**  
May 4, 2023

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

## Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "\*\*\*" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



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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 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® 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)								Smart card reader	Optional: Smart card reader
Chipset	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								ExpressCard	One slot (ExpressCard/34)
									Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card
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
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	Monitor cable
Multi-touch	None	None							Camera (optional)	HD720p resolution, fixed focus
Pen	None								Audio support	HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack
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 DVD burner, 9.5mm high, fixed, tray-in								Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
Optical (optional)	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								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
Ethernet	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								Security chip	Discrete TPM 2.0, TCG Certified
WLAN	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								vPro (optional)	Intel vPro Technology
Bluetooth™									Fingerprint reader	Touch style match on chip fingerprint reader on the keyboard bezel
WWAN (optional)	Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card								Color calibration	Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest
SIM card (opt)									NFC	None
Max battery life (MobileMark® 2014)									Battery	Li-Ion 8-cell (96Wh)
									<table><tr><td>Mode</td><td>Discrete Graphics</td><td>Hybrid Graphics</td></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								
AC adapter									170W or 230W 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	

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September 2017

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