

ThinkPad P70 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family								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 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector						
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics								
	i7-6700HQ	4	8	2.6 GHz	3.5 GHz	6MB	DDR4-2133	Intel HD Graphics 530								
	i7-6820HQ			2.7 GHz	3.6 GHz	8MB		Intel HD Graphics P530								
	E3-1505M v5			2.8 GHz	3.7 GHz	8MB		Intel Iris™ Pro Graphics P580								
E3-1575M v5	3 GHz			3.9 GHz												
Graphics	Intel HD Graphics 530, Intel HD Graphics P530, or Intel Iris™ Pro Graphics P580 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports five independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 3840x2160@30Hz (HDMI)								Camera (optional) Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack						
Chipset	Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets								Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad						
Memory									Security Security chip ThinkEngine	Power-on password, hard disk password, supervisor password, security keyhole Discrete TPM 1.2 TCG Certified and Firmware TPM 2.0 integrated in chipset Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures						
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								vPro (optional) Fingerprint reader Color calibration	Intel vPro Technology Touch style fingerprint reader on the keyboard bezel Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest						
Multi-touch (opt) Pen (optional)									Capacitive-type multi-touch, supports 10-finger gesture, 270 nits ThinkPad Pen Pro, active pen for multi-touch display							
Storage	Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) Some: M.2 SSD / SATA 6.0Gb/s (e.g. xxxG SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxG SSD PCIe NVMe) Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™								Battery Max battery life ¹⁰ (MobileMark® 2014)	Li-Ion 8-cell (96Wh) <table><tr><th>Mode</th><th>Discrete Graphics</th><th>Hybrid Graphics</th></tr><tr><td>Max battery life</td><td>8.5 hr</td><td>10.8 hr</td></tr></table>	Mode	Discrete Graphics	Hybrid Graphics	Max battery life	8.5 hr	10.8 hr
Mode	Discrete Graphics	Hybrid Graphics														
Max battery life	8.5 hr	10.8 hr														
Optical (optional)	DVD burner, 9.5mm high, fixed, tray-in								AC adapter	170W or 230W AC adapter						
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)								Preload	Some: Genuine Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) For ISV certifications, please visit www.lenovo.com/support/ISV						
WLAN ⁴ Bluetooth™	11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter								Limited warranty ¹²	One of the following, configurable by model: • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)						
WWAN (optional)	Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA/UMTS/GNSS, M.2 card								Mil-Spec test	MIL-STD-810G military certification						
SIM card	Micro-SIM card slot								Environment	EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®, RoHS-compliant						
Dimensions ³	WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm															
Weight ²	Non-touch model: starting at 7.3 lb (3.3kg); Multi-touch model: starting at 8.1 lb (3.7kg)															
Case material	Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum															

Model	20ER003F++
Product	ThinkPad P70
Region	EMEA
Machine Type	20ER
TopSeller	TopSeller
Processor	Core i7-6700HQ (4C, 2.6 / 3.5GHz, 6MB)
vPro	No
Graphics	NVIDIA Quadro M600M 2GB
Chipset	Intel CM236
Memory	8GBx1 non-ECC
Display	17.3" FHD (1920x1080) IPS
Multi-touch	None
Pen	None
Storage	256GB SSD M.2 Opal2
RAID	No
Optical	DVD±RW
WLAN + Bluetooth	Intel 8260 ac, 2x2 + BT4.1
WWAN	WWAN Upgradable
SIM Card	None
Smart Card Reader	Smart Card Reader
Camera	720p
Keyboard	Backlit
Fingerprint Reader	Fingerprint Reader
Color Calibrator	X-Rite
Battery	8-cell (96Wh)
Power Adapter	170W
Operating System	Windows 10 Pro 64
Warranty	3-year, Onsite
Global	No
Ann Date (mm/yy)	07/16







