

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 Trusted Platform Module, TCG 1.2-compliant 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
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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 <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: from 7.3 lb (3.3kg); Multi-touch model: from 8.1 lb (3.7kg)															
Case material	Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum															