

ThinkPad T470 20HD000L++

Region
EMEA

Machine Type
20HD

TopSeller
TopSeller

Processor
Core i7-7600U (2C, 2.8 / 3.9GHz, 4MB)

vPro
vPro

Graphics
Integrated Intel HD Graphics 620

Memory
8GB

Display
14" FHD (1920x1080) IPS

Multi-touch
None

Storage
256GB SSD M.2 PCIe NVMe Opal2

Optical
None

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

WWAN
WWAN Upgradable

SIM Card
None

Smart Card Reader
Smart Card Reader

Dock
None

Monitor Cable
None

Case Material
PPS

Camera
720p

Keyboard
Backlit

Fingerprint Reader
Fingerprint Reader

NFC
None

TPM
dTPM 2.0

Battery
3-cell (24Wh) + 3-cell (24Wh)

Power Adapter
45W Slim Tip

Operating System
Windows 10 Pro 64

Warranty
3-year, Onsite

End of Support
Feb 28, 2023

Ann Date (mm/yy)
01/17

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 T470 Platform Specifications

Product Specifications Reference (PSREF)

Processor	6th Generation Intel® Core™ i5 / i7 Processor (i7-6500U is NOT available in EMEA)																												
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics																					
	i5-6200U	2	4	2.3 GHz	2.8 GHz	3MB	DDR4-2133	Intel HD Graphics 520																					
	i5-6300U			2.4 GHz	3.0 GHz	3MB																							
	i7-6500U			2.5 GHz	3.1 GHz	4MB																							
i7-6600U	2.6 GHz			3.4 GHz	4MB																								
or 7th Generation Intel Core i3 / i5 / i7 Processor																													
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics																					
	i3-7100U	2	4	2.4 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620																					
	i5-7200U			2.5 GHz	3.1 GHz	3MB																							
	i5-7300U			2.6 GHz	3.5 GHz	3MB																							
	i7-7500U			2.7 GHz	3.5 GHz	4MB																							
	i7-7600U			2.8 GHz	3.9 GHz	4MB																							
Graphics	Intel HD Graphics 520 or 620 in processor only, or Intel HD Graphics 620 in processor and NVIDIA GeForce® 940MX, 2GB 2.5GHz GDDR5 memory (discrete models are NOT available in EMEA); supports external digital monitor via HDMI or USB Type-C; supports three independent displays; Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)																												
Chipset	Intel SoC (System on Chip) platform																												
Memory	32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets * System clocks down for processors with lower memory controller																												
Display	Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle																												
Multi-touch (opt)	On-cell touch, supports 10-finger gesture (FHD IPS panel with PPS cover only)																												
Storage	System has one HDD slot or one M.2 2280 slot exclusively for storage Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD) Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s Some: 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN and WiGig																												
Optical	None																												
Ethernet	Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville)																												
WLAN	One of the following, configurable by model (WiGig can coexist with WWAN): • Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card • Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card • Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card • Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1, M.2 card																												
Bluetooth™	Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter * Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS																												
WWAN (optional)	One of the following, configurable by model (WWAN can coexist with WiGig): • Wireless WAN upgradable • Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card • Integrated Mobile Broadband 4G LTE, Intel XMM™ 7160 (Fibocom L831-EAU), M.2 card (EMEA only)																												
SIM card (opt)	Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card																												
Dimensions	WxDxH: 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm																												
Weight	<table><tr><td>Models</td><td>3-cell or 3 + 3-cell</td><td>6-cell or 3 + 6-cell</td></tr><tr><td>Magnesium</td><td>3.49 lb / 1.58 kg</td><td>3.92 lb / 1.78 kg</td></tr><tr><td>PPS</td><td>3.63 lb / 1.65 kg</td><td>4.35 lb / 1.85 kg</td></tr></table>								Models	3-cell or 3 + 3-cell	6-cell or 3 + 6-cell	Magnesium	3.49 lb / 1.58 kg	3.92 lb / 1.78 kg	PPS	3.63 lb / 1.65 kg	4.35 lb / 1.85 kg												
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Magnesium	3.49 lb / 1.58 kg	3.92 lb / 1.78 kg																											
PPS	3.63 lb / 1.65 kg	4.35 lb / 1.85 kg																											
Case color	Black																												
Case material	Display cover: Magnesium Hybrid or PPS; Bottom: Glass-Fiber Reinforced Plastic																												
Smart card reader	Optional: Smart card reader																												
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC), supports SD 3.0, UHS-I																												
Ports	Three USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet (RJ-45), Dock connector																												
WiGig dock (opt)	ThinkPad WiGig dock																												
Monitor cable	Optional: Lenovo USB-C to VGA Adapter																												
Camera (optional)	720p: HD720p resolution, fixed focus IR & 720p: IR camera and HD720p camera (mutually exclusive with WiGig)																												
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, optional LED backlight																												
UltraNav™	TrackPoint® pointing device and buttonless 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	Optional: Touch style match on chip fingerprint reader on the keyboard bezel																												
NFC (optional)	Near Field Communication																												
Internal battery	Optional: Integrated Li-Polymer 3-cell (24Wh)																												
External battery	Li-Polymer 3-cell (24Wh) or Li-Ion 6-cell (48Wh or 72Wh)																												
Max battery life (MobileMark® 2014)	<table><tr><td>Models</td><td>3-cell</td><td>3 + 3-cell</td><td>6-cell 48Wh</td><td>6-cell 72Wh</td><td>3 + 6-cell 48Wh</td><td>3 + 6-cell 72Wh</td></tr><tr><td>Integrated</td><td>6.9 hr</td><td>13.9 hr</td><td>13.9 hr</td><td>20.9 hr</td><td>20.9 hr</td><td>27.1 hr</td></tr><tr><td>Discrete</td><td>6.9 hr</td><td>13.9 hr</td><td>14.3 hr</td><td>21.6 hr</td><td>21.2 hr</td><td>28.6 hr</td></tr></table>								Models	3-cell	3 + 3-cell	6-cell 48Wh	6-cell 72Wh	3 + 6-cell 48Wh	3 + 6-cell 72Wh	Integrated	6.9 hr	13.9 hr	13.9 hr	20.9 hr	20.9 hr	27.1 hr	Discrete	6.9 hr	13.9 hr	14.3 hr	21.6 hr	21.2 hr	28.6 hr
Models	3-cell	3 + 3-cell	6-cell 48Wh	6-cell 72Wh	3 + 6-cell 48Wh	3 + 6-cell 72Wh																							
Integrated	6.9 hr	13.9 hr	13.9 hr	20.9 hr	20.9 hr	27.1 hr																							
Discrete	6.9 hr	13.9 hr	14.3 hr	21.6 hr	21.2 hr	28.6 hr																							
AC adapter	45W or 65W slim tip AC adapter, 45W or 65W USB Type-C AC adapter																												
Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo PowerEngage • ThinkVantage Product Recovery • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) 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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