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Summary of Changes

This section describes the technical changes made in this edition.
This edition might also include minor corrections and editorial changes which are not identified.

February 20, 2019 - Version 538

Additions in this update

►**New product(s)**
None

►**New model(s)**
ThinkPad E490 models announced February 2019
ThinkPad E590 models announced February 2019

►**Others**
None

Withdrawals in this update

►**Withdrawn product(s)**
ThinkPad 13 Chromebook

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ThinkPad 11e (5th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor

7th Generation Intel® Core™ m / i5 Processor, Intel Celeron® processor, or Intel Pentium® Silver processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
m3-7Y30	2	4	1.0 GHz	2.6 GHz	4MB	LPDDR3-1866	Intel HD Graphics 615
i5-7Y54			1.2 GHz	3.2 GHz	4MB		
Celeron N4100	4		1.1 GHz	2.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 600
Pentium Silver N5000			1.1 GHz	2.7 GHz	4MB		Intel UHD Graphics 605

Graphics

Intel HD Graphics 615, Intel UHD Graphics 600 or 605 in processor,
supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;
Max resolution: 3840x2160@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

4GB or 8GB / 1866MHz LPDDR3 or 2400MHz DDR4 /
soldered to systemboard, no sockets

Display

Some: 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio

Some: 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, IPS, multi-touch, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

Multi-touch

Capacitive-type multi-touch, supports 10-finger gesture (HD IPS only)

Storage

eMMC flash memory on board or
M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

Optical

None

Ethernet

Realtek RTL8111GUS Gigabit Network Connection

WLAN + Bluetooth™

One of the following, configurable by model:

- Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card (US only)

WWAN

None

Dimensions

WxDxH: 11.81" x 8.27" x 0.86"; 300mm x 210mm x 21.9mm

Weight

Starting at 2.99 lb (1.36 kg)

Case color

Black

Case material

Display cover: PC/ABS+GF;
Bottom: PC/ABS plastic

Media reader

MicroSD card reader

Ports

Two USB 3.1 Gen 1, one USB 3.1 Type-C Gen 1,
HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack,
microSD card reader, security keyhole

Camera

HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3287 codec,
stereo speakers, 2W x 2, Dolby® Audio™,
monaural digital microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

Touchpad

Buttonless Mylar surface touchpad below keyboard, multi-touch

Security

Power-on password, supervisor password, security keyhole

Security chip

Discrete TPM 2.0, TCG Certified

vPro

None

Fingerprint reader

None

NFC

None

Battery

Integrated Li-ion 42Wh battery

Max battery life

MobileMark® 2014: 13.9 hr

AC adapter

45W or 65W slim tip AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

Lenovo
March 2018

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20LQ0001US	US	m3-7Y30	No	Intel HD 615	4GBx1 LPDDR3-1866	11.6" HD (1366x768)	None	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/18
20LQ0002US	US	m3-7Y30	No	Intel HD 615	4GBx1 LPDDR3-1866	11.6" HD (1366x768) IPS	10-point Multi-touch	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/18
20LQ0007US	US	m3-7Y30	No	Intel HD 615	4GBx1 LPDDR3-1866	11.6" HD (1366x768)	None	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/18
20LQ000GUS	US	Celeron N4100	No	Intel UHD 600	4GBx1 DDR4-2400	11.6" HD (1366x768)	None	128GB eMMC	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	02/18
20LQ000HUS	US	Celeron N4100	No	Intel UHD 600	4GBx1 DDR4-2400	11.6" HD (1366x768)	None	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	02/18
20LQ000JUS	US	Celeron N4100	No	Intel UHD 600	4GBx1 DDR4-2400	11.6" HD (1366x768) IPS	10-point Multi-touch	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	02/18
20LQ000KUS	US	Celeron N4100	No	Intel UHD 600	4GBx1 DDR4-2400	11.6" HD (1366x768) IPS	10-point Multi-touch	128GB eMMC	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	02/18
20LQ000LUS	US	Celeron N4100	No	Intel UHD 600	8GBx1 DDR4-2400	11.6" HD (1366x768)	None	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	02/18
20LQ000MUS	US	Pentium Silver N5000	No	Intel UHD 605	8GBx1 DDR4-2400	11.6" HD (1366x768)	None	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	02/18
20LQ000NUS	US	Pentium Silver N5000	No	Intel UHD 605	8GBx1 DDR4-2400	11.6" HD (1366x768) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	720p	Non-backlit	None	None	dTPM 2.0	3-cell (42Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/18

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ThinkPad A275 Platform Specifications

Processor — AMD PRO A-Series APUs

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
PRO A10-8730B	4	4	2.4 GHz	3.3 GHz	2MB	DDR4-1866	AMD Radeon™ R5 Graphics
PRO A12-8830B			2.5 GHz	3.4 GHz			AMD Radeon R7 Graphics
PRO A10-9700B			2.5 GHz	3.4 GHz			
PRO A12-9800B			2.7 GHz	3.6 GHz			

** Windows 7 is only supported by PRO A10-8730B and PRO A12-8830B*

Graphics — AMD Radeon R5 or R7 Graphics in processor only;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2160@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset — AMD SoC (System on Chip) platform

Memory — 16GB max / 1866MHz DDR4, one DDR4 SO-DIMM socket

Display
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Multi-touch *(opt)* — On-cell touch, supports 10-finger gesture (FHD only, US only)

Storage — *System has one HDD slot or one M.2 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

Optical — None

Ethernet — Realtek® RTL8111EPV Gigabit Ethernet connection

WLAN
Bluetooth™ — Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — *One of the following, configurable by model:*
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

SIM card *(opt)* — Micro-SIM card slot, opt Verizon LTE (US) SIM card

Dimensions — *WxDxH:* 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

Weight

Models	*No + 3-cell*	*3-cell + 3-cell*	*3 + 6-cell*
Weight	2.79 lb / 1.27 kg	2.98 lb / 1.36 kg	3.33 lb / 1.52 kg

Case color — Black

Case material — Glass-Fiber Reinforced Plastic

Smart card reader — *Optional:* Smart card reader

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 1, HDMI 1.4b, Ethernet (RJ-45)

Monitor cable *(optional)* — *HDMI to VGA:* Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)* — HD720p resolution, fixed focus

Audio support — HD Audio, Realtek ALC3268 codec / stereo speakers, 1.5W 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 — *dTPM 1.2:* discrete TPM 1.2, TCG Certified
dTPM 2.0: discrete TPM 2.0, TCG Certified

Fingerprint reader — *Optional:*Touch style match on chip fingerprint reader on the palm rest

NFC — None

Internal battery — *Optional:* Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery — Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh)*

Max battery life (*MobileMark® 2014*)

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*
Max battery life	5.05 hr	10.1 hr	15.6 hr

AC adapter — 45W slim tip AC adapter or 45W 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

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

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20KD0013US	US	AMD PRO A12-9800B	AMD R7 Graphics	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	09/17
20KD0014US	US	AMD PRO A12-9800B	AMD R7 Graphics	16GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	09/17
20KD0015US	US	AMD PRO A12-9800B	AMD R7 Graphics	16GBx1	12.5" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	09/17
20KD0016US	US	AMD PRO A12-9800B	AMD R7 Graphics	8GBx1	12.5" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	09/17
20KD0017US	US	AMD PRO A10-9700B	AMD R7 Graphics	4GBx1	12.5" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	09/17
20KD0018US	US	AMD PRO A10-8730B	AMD R5 Graphics	8GBx1	12.5" FHD (1920x1080) IPS	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	09/17
20KD0019US	US	AMD PRO A10-8730B	AMD R5 Graphics	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	09/17
20KD001AUS	US	AMD PRO A10-8730B	AMD R5 Graphics	4GBx1	12.5" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	09/17
20KD001QUS	US	AMD PRO A12-8830B	AMD R7 Graphics	8GBx1	12.5" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	11/17
20KD001RUS	US	AMD PRO A12-8830B	AMD R7 Graphics	16GBx1	12.5" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	11/17
20KD001SUS	US	AMD PRO A12-8830B	AMD R7 Graphics	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	11/17
20KD001TUS	US	AMD PRO A12-8830B	AMD R7 Graphics	16GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	11/17

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ThinkPad A285 Platform Specifications

Processor — AMD Ryzen™ PRO Mobile Processors with Radeon™ Vega Graphics

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	L2 Cache	Memory Types	Processor Graphics
Ryzen 3 PRO 2300U	4	4	2.0 GHz	3.4 GHz	2MB	DDR4-2400	Radeon Vega 6 Graphics
Ryzen 5 PRO 2500U		8	2.0 GHz	3.6 GHz			Radeon Vega 8 Graphics
Ryzen 7 PRO 2700U		8	2.2 GHz	3.8 GHz			Radeon Vega 10 Graphics

Graphics — AMD Radeon Vega 6, Vega 8, or Vega 10 Graphics in processor only;
supports external digital monitor via HDMI or USB Type-C;
supports four independent displays;
Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@60Hz (HDMI)

Chipset — AMD SoC (System on Chip) platform

Memory — 8GB or 16GB / 2400MHz DDR4, soldered to systemboard, no sockets

Display
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

Multi-touch *(opt)* — On-cell touch, supports 10-finger gesture (FHD only)

Storage — *One of the following, configurable by model:*
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

Optical — None

Ethernet — Gigabit Ethernet connection via optional ThinkPad Ethernet Extension Cable Gen 2

WLAN — Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card

Bluetooth™ — Bluetooth 4.2 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — Integrated Mobile Broadband 4G LTE-A,
Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

SIM card *(opt)* — Nano-SIM card slot, in the combo slot with microSD card reader,
optional Verizon LTE (US) SIM card

Dimensions
WxDxH (HD & FHD multi-touch):
12.11" x 8.26" x 0.69"; 307.7mm x 209.8mm x 17.4mm
WxDxH (FHD non-touch):
12.11" x 8.26" x 0.70"; 307.7mm x 209.8mm x 17.8mm

Weight
FHD non-touch model: 2.49 lb / 1.13 kg;
HD non-touch model: 2.78 lb / 1.26 kg;
FHD multi-touch model: 2.79 lb / 1.27 kg

Case color — Black

Case material
Display cover: Carbon Fiber (FHD non-touch model) or PPS (HD & FHD multi-touch model);
Bottom: Magnesium/Aluminum

Smart card reader — *Optional:* Smart card reader

Media reader — MicroSD card reader, in the combo slot with nano-SIM card

Ports — One USB 3.1 Gen 1 (Always On), one USB 3.1 Gen 2,
two USB 3.1 Type-C Gen 2, HDMI 2.0, Ethernet extension connector,
combo slot of nano-SIM card (WWAN models) and microSD card reader,
headphone / microphone combo jack, optional smart card reader,
side docking connector, security keyhole

Monitor cable *(optional)*
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)* — *One of the following, configurable by model:*
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support — HD Audio, Realtek ALC3287 codec /
stereo speakers, 2W x 2, Dolby® Audio™ Premium /
dual array microphone, headphone / microphone combo 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

Fingerprint reader — *Optional:* Touch style match on chip fingerprint reader on the palm rest

NFC — None

Battery — Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life — *MobileMark® 2014:* 10.55 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter — 45W or 65W USB Type-C AC adapter

Preload — Windows® 10 Home 64 or Windows 10 Pro 64

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™ Silver; ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	Graphics	Memory (Soldered)	Display	Multi-touch	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Adapter	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	OS	Warranty	Ann Date (m/y)
20MW000TUS	US	AMD Ryzen 5 PRO 2500U	AMD Vega 8 Graphics	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	11ac, 2x2 + BT4.1	None	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	08/18
20MW0010US	US	AMD Ryzen 5 PRO 2500U	AMD Vega 8 Graphics	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	11ac, 2x2 + BT4.1	None	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	08/18

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ThinkPad A475 Platform Specifications

Processor

AMD PRO A-Series APUs

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
PRO A10-8730B	4	4	2.4 GHz	3.3 GHz	2MB	DDR4-1866	AMD Radeon™ R5 Graphics
PRO A12-8830B			2.5 GHz	3.4 GHz			AMD Radeon R7 Graphics
PRO A10-9700B			2.5 GHz	3.4 GHz			
PRO A12-9800B			2.7 GHz	3.6 GHz			

** Windows 7 is only supported by PRO A10-8730B and PRO A12-8830B*

Graphics

AMD Radeon R5 or R7 Graphics in processor only;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2160@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset

AMD SoC (System on Chip) platform

Memory

32GB max / 1866MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display

Some: 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 350:1 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 only, US 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

Optical

None

Ethernet

Realtek® RTL8111EPV Gigabit Ethernet connection

WLAN
Bluetooth™

Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

One of the following, configurable by model:
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

SIM card *(opt)*

Micro-SIM card slot, opt Verizon LTE (US) SIM card

Dimensions

WxDxH: 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm

Weight

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

Case color

Black

Case material

Display cover: Magnesium Hybrid or PPS (Magnesium Hybrid for US only);
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, HDMI 1.4b, Ethernet (RJ-45), Dock connector

Monitor cable

Optional: Lenovo USB-C to VGA Adapter

Camera *(optional)*

HD720p resolution, fixed focus

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

dTPM 1.2: discrete TPM 1.2, TCG Certified
dTPM 2.0: discrete TPM 2.0, TCG Certified

Fingerprint reader

Optional: Touch style match on chip fingerprint reader on the keyboard bezel

NFC

None

Internal battery

Optional: Integrated Li-Polymer 3-cell *(24Wh)*

External battery

Li-Polymer 3-cell *(24Wh)* or Li-Ion 6-cell *(48Wh)*

Max battery life (*MobileMark® 2014*)

Models	*3-cell*	*3 + 3-cell*	*6-cell 48Wh*	*3 + 6-cell 48Wh*
Max battery life	5.13 hr	10.26 hr	10.26 hr	15.4 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

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

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20KL0016US	US	AMD PRO A10-9700B	AMD R7 Graphics	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	09/17
20KL0017US	US	AMD PRO A12-9800B	AMD R7 Graphics	8GB	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	09/17
20KL0018US	US	AMD PRO A12-9800B	AMD R7 Graphics	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	09/17
20KL0019US	US	AMD PRO A12-9800B	AMD R7 Graphics	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	09/17
20KL001AUS	US	AMD PRO A12-9800B	AMD R7 Graphics	16GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	09/17
20KL001BUS	US	AMD PRO A10-8730B	AMD R5 Graphics	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	09/17
20KL001CUS	US	AMD PRO A10-8730B	AMD R5 Graphics	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	09/17
20KL001DUS	US	AMD PRO A10-8730B	AMD R5 Graphics	8GB	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	09/17
20KL001PUS	US	AMD PRO A12-8830B	AMD R7 Graphics	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	11/17
20KL001QUS	US	AMD PRO A12-8830B	AMD R7 Graphics	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	11/17
20KL001RUS	US	AMD PRO A12-8830B	AMD R7 Graphics	16GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	11/17
20KL001SUS	US	AMD PRO A12-8830B	AMD R7 Graphics	8GB	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	11/17

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ThinkPad A485 Platform Specifications

Processor

AMD Ryzen™ PRO Mobile Processors with Radeon™ Vega Graphics

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	L2 Cache	Memory Types	Processor Graphics
Ryzen 3 PRO 2300U	4	4	2.0 GHz	3.4 GHz	2MB	DDR4-2400	Radeon Vega 6 Graphics
Ryzen 5 PRO 2500U		8	2.0 GHz	3.6 GHz			Radeon Vega 8 Graphics
Ryzen 7 PRO 2700U		8	2.2 GHz	3.8 GHz			Radeon Vega 10 Graphics

Graphics

AMD Radeon Vega 6, Vega 8, or Vega 10 Graphics in processor only;
supports external digital monitor via HDMI or USB Type-C;
supports four independent displays;
Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@60Hz (HDMI)

Chipset

AMD SoC (System on Chip) platform

Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets
* *Installed DIMMs are actually 2666MHz but run at 2400MHz due to AMD limitation*

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, 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 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 / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

Optical

None

Ethernet

Realtek® RTL8111GUL Gigabit Ethernet connection

WLAN
Bluetooth™

Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Integrated Mobile Broadband 4G LTE-A,
Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions

WxDxH: 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm

Weight

Models	*24Wh or 24Wh + 24Wh*	*48Wh, 72Wh, or 24Wh + 48Wh / 72Wh*
Magnesium	3.49 lb / 1.58 kg	3.92 lb / 1.78 kg
PPS	3.63 lb / 1.65 kg	4.08 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

One USB 3.1 Gen 1 (Always On), one USB 3.1 Gen 2,
two USB 3.1 Type-C Gen 2, HDMI 2.0, Ethernet (RJ-45),
nano-SIM card slot (WWAN models), headphone / microphone combo jack,
optional smart card reader, 4-in-1 media reader (MMC, SD, SDHC, SDXC),
side docking connector, security keyhole

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3287 codec /
stereo speakers, 2W x 2, Dolby® Audio™ Premium /
dual array microphone, headphone / microphone combo jack

Keyboard
UltraNav™

6-row, spill-resistant, multimedia Fn keys, optional LED backlight
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

Fingerprint reader

Optional: Touch style match on chip fingerprint reader on the keyboard bezel

NFC

None

Battery

Integrated Li-ion 24Wh battery and
external Li-ion 24Wh, 48Wh, or 72Wh battery

Max battery life (*MobileMark® 2014*)

Models	*24Wh*	*48Wh*	*72Wh*	*24Wh + 24Wh*	*24Wh + 48Wh*	*24Wh + 72Wh*
Max battery life	5.37 hr	10.76 hr	16.4 hr	10.76 hr	16.4 hr	22.15 hr

AC adapter

45W or 65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

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

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

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20MU000HUS	US	AMD Ryzen 5 PRO 2500U	AMD Vega 8 Graphics	8GBx1	14" FHD (1920x1080) IPS	None	128GB SSD	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000JUS	US	AMD Ryzen 5 PRO 2500U	AMD Vega 8 Graphics	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000KUS	US	AMD Ryzen 7 PRO 2700U	AMD Vega 10 Graphics	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000LUS	US	AMD Ryzen 3 PRO 2300U	AMD Vega 6 Graphics	8GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20MU000MUS	US	AMD Ryzen 7 PRO 2700U	AMD Vega 10 Graphics	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000NUS	US	AMD Ryzen 7 PRO 2700U	AMD Vega 10 Graphics	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000PUS	US	AMD Ryzen 5 PRO 2500U	AMD Vega 8 Graphics	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20MU000QUS	US	AMD Ryzen 3 PRO 2300U	AMD Vega 6 Graphics	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20MU000RUS	US	AMD Ryzen 5 PRO 2500U	AMD Vega 8 Graphics	8GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000SUS	US	AMD Ryzen 7 PRO 2700U	AMD Vega 10 Graphics	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000TUS	US	AMD Ryzen 5 PRO 2500U	AMD Vega 8 Graphics	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000UUS	US	AMD Ryzen 7 PRO 2700U	AMD Vega 10 Graphics	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU000VUS	US	AMD Ryzen 5 PRO 2500U	AMD Vega 8 Graphics	8GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20MU000WUS	US	AMD Ryzen 7 PRO 2700U	AMD Vega 10 Graphics	16GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20MU001AUS	US	AMD Ryzen 3 PRO 2300U	AMD Vega 6 Graphics	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	08/18

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ThinkPad E475 Platform Specifications

Processor

AMD Accelerated Processor A6 or A10 APU

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
A6-9500B	2	4	2.3 GHz	3.2 GHz	2MB	DDR4-1866	R5 Graphics
A10-9600P	4	8	2.4 GHz	3.3 GHz	2MB		

Graphics

AMD Radeon™ R5 Graphics in processor only, or
AMD Radeon R5 M430 Graphics, 2GB DDR3 memory,
digital monitor support via HDMI™;
supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset

AMD SoC (System on Chip) platform

Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets
*System automatically clocks down with 1866MHz DDR4 memory controller

Display

14.0" (355mm) HD (1366x768), anti-glare, LED backlight,
220 nits, 16:9 aspect ratio, 400:1 contrast ratio

Multi-touch

None

Storage

Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable

Optical

None

Ethernet

Gigabit Ethernet Connection, Realtek R8111GUS

WLAN

One of the following, configurable by model:

- QCA, Qualcomm 344A-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm 435-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

SIM card

None

Dimensions

WxDxH: 13.35" x 9.53" x 0.93"; 339mm x 242mm x 23.7mm

Weight

Starting at 4.12 lb / 1.87kg

Case color

Black

Case material

PC/ABS plastic

Smart card reader

None

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0 (one Always On), one USB 2.0, HDMI, Ethernet (RJ-45),
combo audio / microphone jack

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Conexant® CX11852 codec,
Dolby® Audio™ Premium, stereo speakers, 2W x 2,
dual array microphone, combo audio / microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

UltraNav™

TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

FW TPM2.0: Firmware TPM 2.0, integrated in chipset
dTPM2.0: Discrete TPM 2.0, TCG Certified

Fingerprint reader

None

NFC

None

Battery

Li-Polymer 3-cell (45Wh)

Max battery life

MobileMark® 2014: 6.5 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W slim tip AC adapter

Preload *(optional)*

Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty

1-year depot repair service

Mil-Spec test

None

Environment

EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Color	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20H40006US	US	AMD A6-9500B	AMD R5 Graphics	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	45W	Windows 10 Pro 64	1-year, Depot	11/16
20H40007US	US	AMD A10-9600P	AMD R5 M430 2GB	8GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	45Wh	65W	Windows 10 Pro 64	1-year, Depot	11/16
20H40008US	US	AMD A10-9600P	AMD R5 M430 2GB	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	45Wh	65W	Windows 10 Pro 64	1-year, Depot	11/16
20H40009US	US	AMD A6-9500B	AMD R5 Graphics	8GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	45W	Windows 10 Pro 64	1-year, Depot	11/16
20H4000AUS	US	AMD A10-9600P	AMD R5 M430 2GB	8GBx1	14" HD (1366x768)	None	256GB SSD Opal2	None	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	45Wh	65W	Windows 10 Pro 64	1-year, Depot	11/16
20H4000DUS	US	AMD A10-9600P	AMD R5 M430 2GB	8GBx1	14" HD (1366x768)	None	180GB SSD Opal2	None	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	45Wh	65W	Windows 10 Pro 64	1-year, Depot	01/17

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ThinkPad E480 Platform Specifications

Processor

7th Generation Intel® Core™ i3 / i5 Processor
(i3-7130U is NOT available in US and EMEA) or

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-7020U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620
i3-7130U			2.7 GHz	-	3MB		
i5-7200U			2.5 GHz	3.1 GHz	3MB		

8th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		

Graphics
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and
AMD Radeon RX 550 Graphics, 2GB DDR5 memory;
supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

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, IPS, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio

Multi-touch
None

Storage
Up to 2 drives (one M.2 SSD and one HDD)
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: M.2 SSD / PCIe NVMe

Optical
None

Ethernet
Gigabit Ethernet Connection, Realtek R8111GUS

WLAN + Bluetooth™
One of the following, configurable by model:
- Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + Bluetooth 4.1, M.2 Card

** Intel 3165ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN
None

SIM card
None

Dimensions
Aluminum (WxDxH): 12.96" x 9.53" x 0.78"; 329mm x 242mm x 19.9mm
PC/ABS (WxDxH): 12.96" x 9.53" x 0.83"; 329mm x 242mm x 21.9mm

Weight
Starting at 3.87 lb / 1.75kg

Case color
Black or silver

Case material
Display cover: Aluminum or PC/ABS plastic;
Bottom: PC/ABS plastic

Smart card reader
None

Media reader
MicroSD card reader

Ports
Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2, one USB 2.0, HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

Camera
HD720p camera, fixed focus

Audio support
HD Audio, Conexant® CX11852 codec /
stereo speakers, 1.5W x 2, Dolby® Advanced Audio /
dual array microphone, headphone / microphone combo 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 *(opt)*
Firmware TPM 2.0 integrated in chipset or discrete TPM 2.0 TCG Certified

vPro
None

Fingerprint reader
Optional: Touch style fingerprint reader on the palm rest

NFC
None

Battery
Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life
MobileMark® 2014: 13.51 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter
45W or 65W USB Type-C AC adapter

Preload *(optional)*
Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty
1-year depot repair service

Mil-Spec test
MIL-STD-810G military certification

Environment
ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Color	Case Material	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20KN0032US	US	i7-8550U	No	AMD RX 550 2GB	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	FW TPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN0033US	US	i7-8550U	No	AMD RX 550 2GB	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Silver	Aluminum	720p	Non-backlit	None	FW TPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN0034US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Silver	Aluminum	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN003SUS	US	i5-7200U	No	Intel HD 620	8GBx1	14" HD (1366x768)	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Black	PC/ABS	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN003UUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN003WUS	US	i7-8550U	No	AMD RX 550 2GB	4GBx2	14" FHD (1920x1080) IPS	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	FW TPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN003XUS	US	i5-8250U	No	Intel UHD 620	4GBx2	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN003YUS	US	i5-7200U	No	Intel HD 620	4GBx2	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN0040US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	128GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN0041US	US	i7-8550U	No	AMD RX 550 2GB	8GBx1	14" FHD (1920x1080) IPS	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Silver	Aluminum	720p	Non-backlit	None	FW TPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KN0094US	US	i5-7200U	No	Intel HD 620	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	08/18

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ThinkPad E485 Platform Specifications

Processor — AMD Ryzen™ Mobile Processors with Radeon™ Vega Graphics

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	L2 Cache	Memory Controller	Processor Graphics
Ryzen 3 2200U	2	4	2.5 GHz	3.4 GHz	1MB	DDR4-2400	Radeon Vega 3 Graphics
Ryzen 5 2500U	4	8	2.0 GHz	3.6 GHz	2MB		Radeon Vega 8 Graphics
Ryzen 7 2700U			2.2 GHz	3.8 GHz	2MB		Radeon RX Vega 10 Graphics

Graphics — AMD Radeon Vega 3, Vega 8, or RX Vega 10 Graphics in processor only;
supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset — AMD SoC (System on Chip) platform

Memory — 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

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, IPS, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio

Multi-touch — None

Storage — *Up to 2 drives (one M.2 SSD and one HDD)*
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: M.2 SSD / PCIe NVMe

Optical — None

Ethernet — Gigabit Ethernet Connection, Realtek RTL8111GUS

WLAN + Bluetooth™ — *One of the following, configurable by model:*
- Qualcomm QCNFA435, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
- Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card

WWAN — None

SIM card — None

Dimensions — *Aluminum (WxDxH):* 12.96" x 9.53" x 0.78"; 329mm x 242mm x 19.9mm
PC/ABS (WxDxH): 12.96" x 9.53" x 0.86"; 329mm x 242mm x 21.9mm

Weight — Starting at 3.87 lb / 1.75kg

Case color — Black

Case material — *Display cover:* Aluminum or PC/ABS plastic;
Bottom: PC/ABS plastic

Smart card reader — None

Media reader — MicroSD card reader

Ports — Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2, one USB 2.0, HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

Camera — HD720p camera, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec / stereo speakers, 1.5W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

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

Fingerprint reader — None

NFC — None

Battery — Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life — *MobileMark® 2014:* 9.37 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter — 45W or 65W USB Type-C AC adapter

Preload *(optional)* — Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty — 1-year depot repair service

Mil-Spec test — None

Environment — ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	Graphics	Memory	Display	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Color	Case Material	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20KU0018US	US	AMD Ryzen 3 2200U	AMD Vega 3 Graphics	4GBx1	14" HD (1366x768)	500GB 7200rpm	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	PC/ABS	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20KU0019US	US	AMD Ryzen 3 2200U	AMD Vega 3 Graphics	8GBx1	14" HD (1366x768)	500GB 7200rpm	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	PC/ABS	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20KU001AUS	US	AMD Ryzen 5 2500U	AMD Vega 8 Graphics	8GBx1	14" HD (1366x768)	500GB 7200rpm	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	PC/ABS	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	06/18
20KU001BUS	US	AMD Ryzen 7 2700U	AMD RX Vega 10 Graphics	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	PC/ABS	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20KU001KUS	US	AMD Ryzen 5 2500U	AMD Vega 8 Graphics	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	PC/ABS	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	06/18

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ThinkPad E490 Platform Specifications

Processor

8th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8145U	2	4	2.1 GHz	3.9 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB		
i7-8565U			1.8 GHz	4.6 GHz	8MB		

Graphics

Intel UHD Graphics 620 in processor only or
Intel UHD Graphics 620 in processor and
AMD Radeon RX 550X Graphics, 2GB DDR5 memory;
supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;
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

Display

Size / Resolution	Surface	Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle	Multi-touch
14.0" HD (1366x768)	Anti-glare	TN	220 nits	16:9	400:1	90°	Non-touch
14.0" FHD (1920x1080)	Anti-glare	IPS	250 nits	16:9	600:1	170°	Non-touch

Multi-touch

None

Storage

Up to two drives (one M.2 SSD and one HDD)
- HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- M.2 SSD / SATA 6.0Gb/s
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2
- 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2

Optical

None

Ethernet

Gigabit Ethernet Connection, Realtek R8111GUS

WLAN + Bluetooth™

One of the following, configurable by model:
- Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card
- Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

WWAN

None

Dimensions

Aluminum (WxDxH): 12.96" x 9.53" x 0.78"; 329mm x 242mm x 19.9mm
PC/ABS (WxDxH): 12.96" x 9.53" x 0.83"; 329mm x 242mm x 21.9mm

Weight

Starting at 3.87 lb / 1.75kg

Case color

Black or silver

Case material

Display cover: Aluminum or PC/ABS plastic;
Bottom: PC/ABS plastic

Smart card reader

None

Media reader

MicroSD card reader

Ports

Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2, one USB 2.0, HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

Camera

HD720p camera, fixed focus

Audio support

HD Audio, Conexant® CX11880 codec /
stereo speakers, 1.5W x 2, Dolby® Advanced Audio /
dual array microphone, headphone / microphone combo 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

Integrated model: discrete TPM 2.0, TCG Certified
Discrete model: firmware TPM 2.0 integrated in chipset

vPro

None

Fingerprint reader

Optional: Touch style fingerprint reader on the palm rest

NFC

None

Battery

Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life

MobileMark® 2014: 13 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W USB Type-C AC adapter

Preload *(optional)*

Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty

1-year depot repair service

Mil-Spec test

MIL-STD-810G military certification

Environment

ENERGY STAR® 7.0; RoHS-compliant

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

Lenovo
January 2018

Model	Region	Country	Processor	vPro	Graphics	Memory	Display	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	Case Material	Color	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20N8001AUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Aluminum	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001BUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Aluminum	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001CUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Aluminum	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001DUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001EUS	NA	US	i3-8145U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001FUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx2	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Aluminum	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001GUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Aluminum	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001HUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Aluminum	Silver	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001KUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Aluminum	Silver	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001LUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Aluminum	Silver	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8001MUS	NA	US	i3-8145U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20N8005MUS	NA	US	i3-8145U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	01/19
20N8005NUS	NA	US	i5-8265U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	01/19
20N8006RUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20N8006SUS	NA	US	i3-8145U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	1TB 5400rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20N8006TUS	NA	US	i3-8145U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20N8006UUS	NA	US	i5-8265U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20N8006VUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx2	14" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20N8006WUS	NA	US	i5-8265U	No	Intel UHD 620	4GBx1	14" FHD (1920x1080) IPS	1TB 5400rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20N8006XUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	1TB 5400rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19

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Model	Region	Country	Processor	vPro	Graphics	Memory	Display	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	Case Material	Color	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20N8006YUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	1TB 5400rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20N80070US	NA	US	i7-8565U	No	Intel UHD 620	8GBx2	14" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	PC/ABS	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19

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ThinkPad E575 Platform Specifications

Processor — AMD A-Series Processors

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
A6-9500B	2	4	2.3 GHz	3.2 GHz	2MB	DDR4-1866	R5 Graphics
A10-9600P	4	8	2.4 GHz	3.3 GHz	2MB		R5 Graphics
A12-9700P	4	8	2.5 GHz	3.4 GHz	2MB		R7 Graphics

Graphics — AMD Radeon™ R5 Graphics in processor only, or
AMD Radeon R5 Graphics in processor and
AMD Radeon R5 M430 Graphics, 2GB DDR3 memory;
external digital monitor support via HDMI™;
supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset — AMD SoC (System on Chip) platform

Memory — 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets
*System automatically clocks down with 1866MHz DDR4 memory controller

Display
Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio

Multi-touch — None

Storage
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable

Optical *(optional)* — DVD burner, 9.0mm high, removable

Ethernet — Gigabit Ethernet Connection, Realtek RTL8111GUS

WLAN + Bluetooth™ — *One of the following, configurable by model:*
- QCA, Qualcomm 344A-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
- QCA, Qualcomm 435-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — None

SIM card — None

Dimensions — *WxDxH:* 14.92" x 10.28" x 1.00"; 379mm x 261mm x 25.4mm

Weight — Starting at 5.07 lb / 2.3 kg

Case color — Black

Case material — PC/ABS plastic

Smart card reader — None

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports — Two USB 3.0, one USB 2.0 (Always On), VGA, HDMI, Ethernet (RJ-45), combo audio / microphone jack

Camera *(optional)* — HD720p camera, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec,
Dolby® Audio™ Premium, stereo speakers, 2W x 2,
dual array microphone, combo audio / microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

UltraNav™ — TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip
FW TPM2.0: Firmware TPM 2.0, integrated in chipset
dTPM2.0: Discrete TPM 2.0, TCG Certified

Fingerprint reader — None

NFC — None

Battery — Li-Ion 4-cell (41Wh)

Max battery life — *MobileMark® 2014:* 6.5 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter — 45W or 65W slim tip AC adapter

Preload *(optional)* — Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty — 1-year depot repair service

Mil-Spec test — None

Environment — EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Color	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20H8000CUS	US	AMD A10-9600P	AMD R5 M430 2GB	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	41Wh	65W	Windows 10 Pro 64	1-year, Depot	11/16
20H8000DUS	US	AMD A10-9600P	AMD R5 M430 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	DVD±RW	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	41Wh	65W	Windows 10 Pro 64	1-year, Depot	11/16
20H8000EUS	US	AMD A10-9600P	AMD R5 M430 2GB	8GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	41Wh	65W	Windows 10 Pro 64	1-year, Depot	11/16
20H8000FUS	US	AMD A6-9500B	AMD R5 Graphics	8GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	dTPM 2.0	41Wh	45W	Windows 10 Pro 64	1-year, Depot	11/16
20H8000GUS	US	AMD A10-9600P	AMD R5 M430 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	DVD±RW	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	41Wh	65W	Windows 10 Pro 64	1-year, Depot	11/16
20H8000HUS	US	AMD A6-9500B	AMD R5 Graphics	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	dTPM 2.0	41Wh	45W	Windows 10 Pro 64	1-year, Depot	11/16
20H8000QUS	US	AMD A10-9600P	AMD R5 M430 2GB	8GBx1	15.6" HD (1366x768)	None	180GB SSD Opal2	DVD±RW	11ac, 1x1 + BT4.1	None	None	Black	720p	Non-backlit	None	FW TPM 2.0	41Wh	65W	Windows 10 Pro 64	1-year, Depot	01/17

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ThinkPad E580 Platform Specifications

Processor

7th Generation Intel® Core™ i3 / i5 Processor
(i3-7130U is NOT available in US and EMEA) or

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-7020U	2	4	2.3 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620
i3-7130U			2.7 GHz	-	3MB		
i5-7200U			2.5 GHz	3.1 GHz	3MB		

8th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		

Graphics
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and
AMD Radeon RX 550 Graphics, 2GB DDR5 memory;
supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

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: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio

Multi-touch
None

Storage
Up to 2 drives (one M.2 SSD and one HDD)
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: M.2 SSD / PCIe NVMe

Optical
None

Ethernet
Gigabit Ethernet Connection, Realtek R8111GUS

WLAN + Bluetooth™
One of the following, configurable by model:
- Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
- Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + Bluetooth 4.1, M.2 Card

** Intel 3165ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN
None

SIM card
None

Dimensions
WxDxH: 14.53" x 9.92" x 0.78"; 369mm x 252mm x 19.95mm

Weight
Starting at 4.7 lb / 2.1kg

Case color
Black or silver

Case material
Display cover: Aluminum;
Bottom: PC/ABS plastic

Smart card reader
None

Media reader
MicroSD card reader

Ports
Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2, one USB 2.0, HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

Camera
HD720p camera, fixed focus

Audio support
HD Audio, Conexant® CX11852 codec /
stereo speakers, 2W x 2, Dolby® Advanced Audio /
dual array microphone, headphone / microphone combo jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad, 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 *(opt)*
Firmware TPM 2.0 integrated in chipset or discrete TPM 2.0 TCG Certified

vPro
None

Fingerprint reader
Optional: Touch style fingerprint reader on the palm rest

NFC
None

Battery
Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life
MobileMark® 2014: 12.23 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter
45W or 65W USB Type-C AC adapter

Preload *(optional)*
Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty
1-year depot repair service

Mil-Spec test
MIL-STD-810G military certification

Environment
ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Color	Case Material	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20KS003LUS	US	i7-8550U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	01/18
20KS003MUS	US	i7-8550U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Silver	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	01/18
20KS003NUS	US	i7-8550U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Silver	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	01/18
20KS003PUS	US	i7-8550U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	01/18
20KS003QUS	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KS003RUS	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" HD (1366x768)	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KS003SUS	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KS003TUS	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	128GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KS003UUS	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KS003VUS	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KS003WUS	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	11ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17
20KS0040US	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	11ac, 2x2 + BT4.1	None	None	Silver	Aluminum	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/17

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ThinkPad E585 Platform Specifications

Processor — AMD Ryzen™ Mobile Processors with Radeon™ Vega Graphics

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	L2 Cache	Memory Controller	Processor Graphics
Ryzen 3 2200U	2	4	2.5 GHz	3.4 GHz	1MB	DDR4-2400	Radeon Vega 3 Graphics
Ryzen 5 2500U	4	8	2.0 GHz	3.6 GHz	2MB		Radeon Vega 8 Graphics
Ryzen 7 2700U			2.2 GHz	3.8 GHz	2MB		Radeon RX Vega 10 Graphics

Graphics — AMD Radeon Vega 3, Vega 8, or RX Vega 10 Graphics in processor only;
supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;
Max resolution: 1920x1080 (HDMI)@60Hz

Chipset — AMD SoC (System on Chip) platform

Memory — 32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display
Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio (NOT available in EMEA)
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio

Multi-touch — None

Storage
Up to 2 drives (one M.2 SSD and one HDD)
Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™
Some: M.2 SSD / PCIe NVMe

Optical — None

Ethernet — Gigabit Ethernet Connection, Realtek RTL8111GUS

WLAN + Bluetooth™
One of the following, configurable by model:
- Qualcomm QCNFA435, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
- Realtek® RTL8821CE, Wi-Fi 1x1 802.11ac + Bluetooth 4.1, M.2 card
- Realtek RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card

WWAN — None

SIM card — None

Dimensions — *WxDxH:* 14.53" x 9.92" x 0.79"; 369mm x 252mm x 19.95mm

Weight — Starting at 4.7 lb / 2.1kg

Case color — Black

Case material — *Display cover:* Aluminum;
Bottom: PC/ABS plastic

Smart card reader — None

Media reader — MicroSD card reader

Ports — Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2, one USB 2.0, HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

Camera — HD720p camera, fixed focus

Audio support — HD Audio, Conexant® CX11852 codec / stereo speakers, 1.5W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys

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

Fingerprint reader — None

NFC — None

Battery — Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life — *MobileMark® 2014:* 8.63 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter — 45W or 65W USB Type-C AC adapter

Preload *(optional)* — Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty — 1-year depot repair service

Mil-Spec test — None

Environment — ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	Graphics	Memory	Display	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Color	Case Material	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20KV000WUS	US	AMD Ryzen 5 2500U	AMD Vega 8 Graphics	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	06/18
20KV000XUS	US	AMD Ryzen 3 2200U	AMD Vega 3 Graphics	4GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20KV000YUS	US	AMD Ryzen 7 2700U	AMD RX Vega 10 Graphics	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20KV0010US	US	AMD Ryzen 3 2200U	AMD Vega 3 Graphics	8GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	07/18
20KV0011US	US	AMD Ryzen 5 2500U	AMD Vega 8 Graphics	8GBx1	15.6" FHD (1920x1080) IPS	500GB 7200rpm	None	RTL8822BE ac, 2x2 + BT4.1	None	None	Black	Aluminum	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	06/18

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ThinkPad E590 Platform Specifications

Processor

8th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8145U	2	4	2.1 GHz	3.9 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB		
i7-8565U			1.8 GHz	4.6 GHz	8MB		

Graphics

Intel UHD Graphics 620 in processor only or
Intel UHD Graphics 620 in processor and
AMD Radeon RX 550X Graphics, 2GB DDR5 memory;
supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;
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

Display

Size / Resolution	Surface	Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle	Multi-touch
15.6" HD (1366x768)	Anti-glare	TN	220 nits	16:9	400:1	90°	Non-touch
15.6" FHD (1920x1080)	Anti-glare	IPS	250 nits	16:9	600:1	170°	Non-touch

Multi-touch

None

Storage

Up to two drives (one M.2 SSD and one HDD)
- HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- M.2 SSD / SATA 6.0Gb/s
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 2
- 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2

Optical

None

Ethernet

Gigabit Ethernet Connection, Realtek R8111GUS

WLAN + Bluetooth™

One of the following, configurable by model:
- Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.2, M.2 card
- Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

WWAN

None

Dimensions *WxDxH:* 14.53" x 9.94" x 0.78"; 369mm x 252.5mm x 19.9mm

Weight Starting at 4.68 lb / 2.12g

Case color Black or silver

Case material *Display cover:* Aluminum;
Bottom: PC/ABS plastic

Smart card reader None

Media reader MicroSD card reader

Ports Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 2, one USB 2.0, HDMI 1.4b, Ethernet (RJ-45), headphone / microphone combo jack, microSD card reader, security keyhole

Camera HD720p camera, fixed focus

Audio support HD Audio, Conexant® CX11880 codec / stereo speakers, 2W x 2, Dolby® Advanced Audio / dual array microphone, headphone / microphone combo jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, 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 *Integrated model:* discrete TPM 2.0, TCG Certified
Discrete model: firmware TPM 2.0 integrated in chipset

vPro None

Fingerprint reader *Optional:* Touch style fingerprint reader on the palm rest

NFC None

Battery Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life *MobileMark® 2014:* 11 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter 45W or 65W USB Type-C AC adapter

Preload *(optional)* Windows® 10 Home 64 or Windows 10 Pro 64

Limited warranty 1-year depot repair service

Mil-Spec test MIL-STD-810G military certification

Environment ENERGY STAR® 7.0; RoHS-compliant

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

Model	Region	Country	Processor	vPro	Graphics	Memory	Display	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	Color	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20NB001CUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001DUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Silver	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001EUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx2	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001FUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001HUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001JUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001KUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001LUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Silver	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001MUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx2	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001NUS	NA	US	i3-8145U	No	Intel UHD 620	8GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001PUS	NA	US	i3-8145U	No	Intel UHD 620	8GBx1	15.6" HD (1366x768)	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001QUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001RUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Silver	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001SUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx2	15.6" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB001TUS	NA	US	i7-8565U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	12/18
20NB004UUS	NA	US	i3-8145U	No	Intel UHD 620	4GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	01/19
20NB005EUS	NA	US	i5-8265U	No	Intel UHD 620	4GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	Finger-print Reader	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	01/19
20NB005JUS	US	US	i5-8265U	No	Intel UHD 620	8GBx2	15.6" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20NB005KUS	US	US	i5-8265U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20NB005LUS	US	US	i3-8145U	No	Intel UHD 620	4GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19

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Model	Region	Country	Processor	vPro	Graphics	Memory	Display	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	Color	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20NB005MUS	US	US	i5-8265U	No	Intel UHD 620	4GBx1	15.6" HD (1366x768)	500GB 7200rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20NB005NUS	US	US	i3-8145U	No	Intel UHD 620	8GBx1	15.6" HD (1366x768)	1TB 5400rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20NB005PUS	US	US	i5-8265U	No	Intel UHD 620	4GBx1	15.6" FHD (1920x1080) IPS	1TB 5400rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20NB005QUS	US	US	i7-8565U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	1TB 5400rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19
20NB005RUS	US	US	i5-8265U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	1TB 5400rpm	None	Intel 9260 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/19

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ThinkPad L380 Platform Specifications

Processor

Intel® Celeron® Processor, 7th Generation Intel Core™ i3 / i5 Processor or

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3965U	2	2	2.2 GHz	-	2MB	DDR4-2133	Intel HD Graphics 610
i3-7130U		4	2.7 GHz	-	3MB		Intel HD Graphics 620
i5-7200U			2.5 GHz	3.1 GHz	3MB		

8th Generation Intel Core i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB		
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		

Graphics

Intel HD Graphics 610, 620 or Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (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: 13.3" (338mm) HD (1366x768), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 500:1 contrast ratio

Some: 13.3" (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Some: 13.3" (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle, on-cell touch

Multi-touch *(opt)*

on-cell touch, supports 10-finger gesture

Storage

One of the following, configurable by model:

- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

Optical

None

Ethernet

Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*)
via optional ThinkPad Ethernet Extension Cable

WLAN + Bluetooth™

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN

None

Dimensions

WxDxH: 12.67" x 8.83" x 0.74"; 321.8mm x 224.2mm x 18.8mm

Weight

Starting at 3.22 lb / 1.46 kg

Case color

Black or Silver

Case material

Display cover: Aluminum
Bottom: GFRP

Smart card reader

None

Media reader

MicroSD card reader

Ports

Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 1, HDMI 1.4b, Ethernet extension connector, headphone / microphone combo jack, microSD card reader, security keyhole

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera

HD720p camera, fixed focus

Audio support

HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ / dual array microphone, headphone / microphone combo jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

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 fingerprint reader on the keyboard bezel, anti-spoofing technology

NFC *(optional)*

Near Field Communication

Battery

Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life

MobileMark® 2014: 16.1 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

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

Lenovo
November 2018

Model	Region	Processor	vPro	Graphics	Memory	Display(Size, Resolution, Type)	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Monitor Cable	Adapter	Color	Camera	Keyboard	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20M5000FUS	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS 250nits AG	On-cell Touch	256GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Silver	720p	Backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M5000GUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS 250nits AG	On-cell Touch	256GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M5000HUS	US	i5-8250U	No	Intel UHD 620	4GBx1	13.3" HD (1366x768) 250nits AG	None	256GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	02/18
20M5000KUS	US	i5-8250U	No	Intel UHD 620	4GBx1	13.3" HD (1366x768) 250nits AG	None	256GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Silver	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	02/18
20M5000LUS	US	i5-7200U	No	Intel HD 620	8GBx1	13.3" HD (1366x768) 250nits AG	None	256GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M5000NUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS 250nits AG	On-cell Touch	256GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Silver	720p	Backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M5000QUS	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS 250nits AG	On-cell Touch	256GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M5000RUS	US	Celeron 3965U	No	Intel HD 610	4GBx1	13.3" HD (1366x768) 250nits AG	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	02/18
20M5000SUS	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" HD (1366x768) 250nits AG	None	256GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M5003UUS	US	i3-8130U	No	Intel UHD 620	4GBx1	13.3" FHD (1920x1080) IPS 250nits AG	On-cell Touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	04/18
20M5003VUS	US	i3-8130U	No	Intel UHD 620	4GBx1	13.3" HD (1366x768) 250nits AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	04/18
20M5003WUS	US	i3-8130U	No	Intel UHD 620	4GBx1	13.3" HD (1366x768) 250nits AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Silver	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	04/18
20M5003YUS	US	i3-8130U	No	Intel UHD 620	8GBx1	13.3" HD (1366x768) 250nits AG	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Silver	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	05/18
20M50040US	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" HD (1366x768) 250nits AG	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	05/18
20M50041US	US	i3-8130U	No	Intel UHD 620	8GBx1	13.3" HD (1366x768) 250nits AG	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	05/18
20M50049US	US	Celeron 3965U	No	Intel HD 610	4GBx1	13.3" HD (1366x768) 250nits AG	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	Black	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	08/18

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ThinkPad L390 Platform Specifications

Product Specifications Reference (PSREF)

Processor

8th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8145U	2	4	2.1 GHz	3.9 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB		
i7-8565U			1.8 GHz	4.6 GHz	8MB		

Graphics

Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display

Size / Resolution	Surface	Type	Brightness	Aspect Ratio	Contrast Ratio	Viewing Angle	Multi-touch
13.3" HD (1366x768)	Anti-glare	TN	250 nits	16:9	500:1	90°	Non-touch
13.3" FHD (1920x1080)	Anti-glare	IPS	250 nits	16:9	700:1	170°	Non-touch
13.3" FHD (1920x1080)	Anti-glare	IPS	250 nits	16:9	800:1	170°	On-cell touch

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture

Storage

One of the following, configurable by model:

- M.2 SSD / SATA 6.0Gb/s
- M.2 (2242) SSD / PCIe NVMe, PCIe 3.0 x 2
- M.2 (2280) SSD / PCIe NVMe, PCIe 3.0 x 4

Optical

None

Ethernet

Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*)
via optional ThinkPad Ethernet Extension Cable or
Lenovo USB-C to Ethernet Adapter

WLAN
Bluetooth™

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

Dimensions

WxDxH: 12.67" x 8.83" x 0.74"; 321.8mm x 224.2mm x 18.8mm

Weight

Starting at 3.22 lb / 1.46 kg

Case color

Black or Silver

Case material

Display cover: Aluminum
Bottom: GFRP

Smart card reader

None

Media reader

MicroSD card reader

Ports

Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 1,
HDMI 1.4b, Ethernet extension connector, headphone / microphone combo jack,
microSD card reader, security keyhole

Monitor cable *(optional)*

USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to VGA + Power Adapter: Lenovo USB-C to VGA plus Power Adapter
USB-C to HDMI: Lenovo USB-C to HDMI Adapter
USB-C to HDMI + Power Adapter: Lenovo USB-C to HDMI plus Power Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Adapter *(optional)*

USB-C to RJ45: Lenovo USB-C to Ethernet Adapter
USB-C to USB-A: Lenovo USB-C to USB-A Adapter
USB-C to USB-C: Lenovo USB-C to USB-C Cable 2M

Camera

HD720p camera, fixed focus

Audio support

HD Audio, Realtek ALC3287 codec /
stereo speakers, 2W x 2, Dolby® Audio™ Premium /
dual array microphone, headphone / microphone combo jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™

TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Discrete TPM 2.0, TCG Certified

vPro

None

Fingerprint reader

Optional: Touch style fingerprint reader on the palm rest

NFC *(optional)*

Near Field Communication

Battery

Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
with 65W USB Type-C AC adapter

Max battery life

MobileMark® 2014: 14.61 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

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

ENERGY STAR® 7.0; RoHS-compliant

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

Lenovo
January 2018

Model	Region	Country	Processor	vPro	Graphics	Memory	Display(Size, Resolution, Type)	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Monitor Cable	Bundled Accessories	Color	Camera	Keyboard	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20NR0009US	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	On-cell Touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Black	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NR000AUS	NA	US	i5-8265U	No	Intel UHD 620	4GBx1	13.3" HD (1366x768)	None	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Silver	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	12/18
20NR000BUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	On-cell Touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NR000CUS	NA	US	i3-8145U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	None	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Black	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	12/18
20NR000DUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	None	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NR000EUS	NA	US	i3-8145U	No	Intel UHD 620	4GBx1	13.3" HD (1366x768)	None	128GB SSD M.2 (2242) PCIe NVMe	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Black	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	12/18
20NR000FUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	On-cell Touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NR000GUS	NA	US	i5-8265U	No	Intel UHD 620	4GBx1	13.3" HD (1366x768)	None	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Black	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	12/18
20NR000HUS	NA	US	i3-8145U	No	Intel UHD 620	4GBx1	13.3" HD (1366x768)	None	128GB SSD M.2 (2242) PCIe NVMe	None	Intel 9560 ac, 2x2 + BT5.0	None	None	Silver	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	12/18

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ThinkPad L470 Platform Specifications

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor
(i7 processor is NOT available in EMEA) or

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6006U	2	4	2.0 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520
i3-6100U			2.3 GHz	-	3MB		
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		

Intel Celeron® Processor 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
Cel 3965U	2	2	2.2 GHz	-	2MB	DDR4-2133	Intel HD Graphics 610
i3-7100U		4	2.4 GHz	-	3MB		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 610 or 620 in processor only, or
Intel HD Graphics 620 in processor and AMD Radeon™ R5 M430, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

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, 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

None

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 or 9.5mm 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

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:
- 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

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
** Intel 8260ac / 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*

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
- 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: 13.35" x 9.25" x 0.94"; 339mm x 235mm x 23.9mm

Weight

Models	*3-cell*	*6-cell*
Integrated model	4.13 lb / 1.87 kg	4.45 lb / 2.02 kg
Discrete model	4.16 lb / 1.89 kg	4.48 lb / 2.03 kg

Case color

Black

Case material

PC/ABS plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.1 Gen 1 (USB 3.0, one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, fixed focus

Audio support

HD Audio, Realtek ALC3268 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys

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: Swipe style fingerprint reader on the keyboard bezel

NFC

None

Battery

Li-Ion 3-cell *(24Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life[10] (*MobileMark® 2014*)

Models	*3-cell*	*6-cell 48Wh*	*6-cell 72Wh*
Integrated model	7.24 hr	14.48 hr	21.72 hr
Discrete model	4.34 hr	8.68 hr	13.02 hr

AC adapter

45W or 65W slim tip 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

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20J4000RUS	US	i5-7200U	No	Intel HD 620	4GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20J4000SUS	US	i5-7200U	No	Intel HD 620	4GBx1	14" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20J4000TUS	US	i5-7200U	No	Intel HD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20J4000UUS	US	i5-7200U	No	Intel HD 620	4GBx1	14" HD (1366x768)	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20J40012US	US	i3-7100U	No	Intel HD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20J40013US	US	i5-7200U	No	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20J40014US	US	i5-7300U	vPro	Intel HD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20J40015US	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20J40016US	US	i5-7200U	No	Intel HD 620	8GB	14" HD (1366x768)	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20J4003EUS	US	i5-7200U	No	Intel HD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J4003FUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J4003GUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Keyboard	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20JU0008US	US	i5-6200U	No	Intel HD 520	4GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU0009US	US	i5-6200U	No	Intel HD 520	8GB	14" HD (1366x768)	None	180GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000AUS	US	i5-6200U	No	Intel HD 520	4GBx1	14" FHD (1920x1080) IPS	None	128GB SSD	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000BUS	US	i5-6200U	No	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	180GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000CUS	US	i5-6200U	No	Intel HD 520	4GBx1	14" HD (1366x768)	None	128GB SSD	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000DUS	US	i5-6200U	No	Intel HD 520	8GB	14" HD (1366x768)	None	256GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000EUS	US	i5-6200U	No	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000FUS	US	i5-6200U	No	Intel HD 520	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000QUS	US	i5-6200U	No	Intel HD 520	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000RUS	US	i5-6200U	No	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JU000WUS	US	i5-6300U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	05/17
20JU0018US	US	i5-6300U	vPro	Intel HD 520	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	05/17
20JU0019US	US	i5-6300U	vPro	Intel HD 520	4GBx1	14" HD (1366x768)	None	180GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	05/17

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ThinkPad L480 Platform Specifications

Processor

7th Generation Intel® Core™ i3 / i5 Processor
(i3-7130U is NOT available in US and EMEA) or

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-7130U	2	4	2.7 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		

8th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB		
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		

Graphics

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and
AMD Radeon 530, 2GB 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@30Hz (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, 500:1 contrast ratio
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture (FHD 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 / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN + Bluetooth™ *(optional)*

One of the following, configurable by model:
- Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card (US only)
- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card

** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*

One of the following, configurable by model:
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

* For non-WWAN model, it means the model is NOT WWAN upgradable

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions *WxDxH:* 13.19" x 9.25" x 0.89"; 335mm x 235mm x 22.5mm

Weight Starting at 3.71 lb / 1.68 kg

Case color Black

Case material PC/ABS plastic

Smart card reader *Optional:* Smart card reader

Media reader MicroSD card reader

Ports Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 1, HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, microSD card reader, side docking connector, security keyhole

Monitor cable *(optional)* *HDMI to VGA:* Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter

Camera *(optional)* *One of the following, configurable by model:*
- HD720p camera, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ / dual array microphone, headphone / microphone combo 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, anti-spoofing technology

NFC *(optional)* Near Field Communication

Battery Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life *MobileMark® 2014:* 12.2 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter 45W or 65W USB Type-C AC adapter

Preload Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Keyboard	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20LS0000US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LS0001US	US	i5-7300U	vPro	Intel HD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20LS0002US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LS0003US	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LS0004US	US	i5-8250U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LS0005US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	None	128GB SSD	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LS0006US	US	i3-7130U	No	Intel HD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	05/18
20LS0007US	US	i5-8350U	vPro	Intel UHD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20LS0008US	US	i5-7300U	vPro	Intel HD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LS0009US	US	i5-8250U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20LS000UUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LS0020US	US	i5-8250U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LS0021US	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LS002GUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	05/18
20LS002VUS	US	i5-7200U	No	Intel HD 620	8GBx1	14" HD (1366x768)	None	128GB SSD	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	08/18

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ThinkPad L570 Platform Specifications

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor
(i7 processor is NOT available in EMEA) or

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6006U	2	4	2.0 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520
i3-6100U			2.3 GHz	-	3MB		
i5-6200U			2.3 GHz	2.8 GHz	3MB		
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		

Intel Celeron® Processor 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
Cel 3965U	2	2	2.2 GHz	-	2MB	DDR4-2133	Intel HD Graphics 610
i3-7100U		4	2.4 GHz	-	3MB		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, 610, or 620 in processor only;
supports external analog monitor via VGA and digital monitor via Mini DisplayPort;
supports three independent displays;
Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)

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: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 350:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle

Multi-touch
None

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

Optical *(optional)*
DVD-ROM or DVD burner, 9mm high, fixed, not removable, tray-in

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:
- Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card (US only)
- 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

Bluetooth™
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
** Intel 8260ac / 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*
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
- 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: 14.84" x 10.04" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm

Weight
Starting at 5.25 lb / 2.38 kg

Case color
Black

Case material
PC/ABS plastic

ExpressCard *(opt)*
One slot (ExpressCard/34)

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Four USB 3.1 Gen 1 (USB 3.0, one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector

Monitor cable
Optional: Lenovo Mini-DisplayPort to DisplayPort Monitor Cable (MiniDP to DP)

Camera *(optional)*
HD720p resolution, fixed focus

Audio support
HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, numeric keypad

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: Swipe style fingerprint reader on the palm rest

NFC
None

Battery
Li-Ion 6-cell *(48Wh)*

Max battery life
MobileMark® 2014: 14.8 hr

AC adapter
45W slim tip 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

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	ExpressCard	Monitor Cable	Camera	Key-board	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20J8000WUS	US	i3-7100U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	180GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J8000XUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J8000YUS	US	i5-7300U	vPro	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	128GB SSD	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J80010US	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J80011US	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	180GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J80012US	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	128GB SSD	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J80013US	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J80014US	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	256GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J80015US	US	i3-7100U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	256GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J80016US	US	i3-7100U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J80017US	US	i5-7300U	vPro	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20J8002EUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	ExpressCard / 34	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J8002FUS	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	ExpressCard / 34	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J8002GUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J8002LUS	US	i7-7500U	No	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20J8002MUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	DVD±RW	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	Finger-print Reader	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	06/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	ExpressCard	Monitor Cable	Camera	Key-board	Finger-print Reader	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20JQ000UUS	US	i3-6006U	No	Intel HD 520	4GBx1	15.6" HD (1366x768)	None	180GB SSD Opal2	DVD±RW	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	06/17
20JQ000VUS	US	i5-6300U	vPro	Intel HD 520	4GBx1	15.6" HD (1366x768)	None	180GB SSD Opal2	DVD±RW	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	06/17
20JQ000WUS	US	i5-6300U	vPro	Intel HD 520	4GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	DVD±RW	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/17
20JQ000XUS	US	i3-6006U	No	Intel HD 520	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	06/17
20JQ000YUS	US	i5-6300U	vPro	Intel HD 520	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	DVD±RW	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/17
20JQ0010US	US	i5-6300U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	DVD±RW	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/17
20JQ0011US	US	i5-6300U	vPro	Intel HD 520	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	DVD±RW	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	ExpressCard / 34	None	720p	Non-backlit	None	dTPM 2.0	6-cell (48Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	06/17

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ThinkPad L580 Platform Specifications

Processor

Intel® Celeron® Processor, 7th Generation Intel Core™ i3 / i5 Processor
(i3-7130U is NOT available in US and EMEA) or

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
Cel 3965U	2	2	2.2 GHz	-	2MB	DDR4-2133	Intel HD Graphics 610
i3-7130U		4	2.7 GHz	-	3MB		Intel HD Graphics 620
i5-7200U			2.5 GHz	3.1 GHz	3MB		
i5-7300U			2.6 GHz	3.5 GHz	3MB		

8th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8130U	4	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8250U		8	1.6 GHz	3.4 GHz	6MB		
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		

Graphics

Intel HD Graphics 610, 620 or Intel UHD Graphics 620 in processor only or
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and
AMD Radeon 530, 2GB 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@30Hz (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: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

Multi-touch

None

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 / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN + Bluetooth™ *(optional)*

One of the following, configurable by model:
- Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card (US only)
- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card

** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*

One of the following, configurable by model:
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

* For non-WWAN model, it means the model is NOT WWAN upgradable

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions *WxDxH:* 14.82" x 10.02" x 0.90"; 376.5mm x 254.5mm x 22.95mm

Weight Starting at 4.46 lb / 2.0 kg

Case color Black

Case material PC/ABS plastic

ExpressCard None

Smart card reader *Optional:* Smart card reader

Media reader MicroSD card reader

Ports Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 1, HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, microSD card reader, side docking connector, security keyhole

Monitor cable *(optional)* *HDMI to VGA:* Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter

Camera *(optional)* HD720p camera, fixed focus

Audio support HD Audio, Realtek ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ / dual array microphone, headphone / microphone combo jack

Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, 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 palm rest, anti-spoofing technology

NFC *(optional)* Near Field Communication

Battery Integrated Li-ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life *MobileMark® 2014:* 12 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter 45W or 65W USB Type-C AC adapter

Preload Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20LW0000US	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" HD (1366x768)	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LW0001US	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LW0002US	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LW0003US	US	i5-7300U	vPro	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20LW0004US	US	i5-8250U	No	Intel UHD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20LW0005US	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" HD (1366x768)	None	128GB SSD	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LW0006US	US	i5-8350U	vPro	Intel UHD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20LW0007US	US	i5-8350U	vPro	Intel UHD 620	8GBx1	15.6" HD (1366x768)	None	128GB SSD	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LW0008US	US	i5-8350U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LW0009US	US	i3-7130U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	05/18
20LW002HUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LW002JUS	US	i5-8250U	No	Intel UHD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Non-backlit	None	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LW003DUS	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" HD (1366x768)	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	1-year, Depot	05/18
20LW003NUS	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	45Wh	65W USB-C	Win10 Pro 64	3-year, Depot	08/18

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ThinkPad P1 Platform Specifications

Processor

8th Generation Intel® Core™ i5 / i7 Processor or Intel Xeon® E Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8400H	4	8	2.5 GHz	4.2 GHz	8MB	DDR4-2666	Intel UHD Graphics 630
i7-8750H	6	12	2.2 GHz	4.1 GHz	9MB		
i7-8850H			2.6 GHz	4.3 GHz	9MB		
E-2176M			2.7 GHz	4.4 GHz	12MB		

Graphics

Intel UHD Graphics 630 in processor and
NVIDIA® Quadro® P1000 (4GB memory) or P2000 (4GB memory);
supports external digital monitor via HDMI or Thunderbolt™;
supports four independent displays;
Max resolution: 5120X2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

Chipset

Mobile Intel CM246 Chipset

Memory

64GB non-ECC or 32GB ECC max / 2666MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, two DDR4 SO-DIMM sockets

Display

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle

Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch, anti-reflection (AR)

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture (4K only)

Pen

Supports pen accessory, please see the accessory compatibility for details

Storage

Up to 2 drives (two M.2 SSD)
M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

RAID *(optional)*

RAID 0/1 support

Optical

None

Ethernet

Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*))
via optional ThinkPad Ethernet Extension Cable

WLAN

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

Bluetooth™

Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

SIM card

None

Dimensions

WxDxH (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm
WxDxH (multi-touch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm

Weight

Non-touch model: starting at 3.76 lb (1.7 kg);
Multi-touch model: starting at 4.06 lb (1.8 kg)

Case color

Black

Case material

Display cover: CFRP/GFRP hybrid;
Bottom: Aluminum alloy

Smart card reader

Optional: Smart card reader

ExpressCard

None

Media reader

SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card

Ports

Two USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3, HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*

One of the following, configurable by model:

- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3286 codec /
stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone
headphone / microphone combo jack, Dolby Atmos® headphone

Keyboard

6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™

TrackPoint® pointing device and buttonless glass 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

Touch style match on chip fingerprint reader on the keyboard bezel

Color calibration

None

NFC

None

Battery

Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max battery life (*MobileMark® 2014*)

Discrete mode: 7.36 hr; *Hybrid mode:* 13.87 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

135W slim tip AC adapter

Preload

One of the following, configurable by model:

- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations

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; ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display	Multi-touch	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Adapter	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20MD001UUS	US	i7-8750H	No	P1000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD001VUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD001WUS	US	i5-8400H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD001XUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	08/18
20MD001YUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	08/18
20MD0020US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD0021US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	32GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	2TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD0022US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD0023US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	32GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD0024US	US	i5-8400H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD0025US	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	32GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	08/18
20MD0026US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD0027US	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD0028US	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	08/18
20MD0029US	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002AUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002BUS	US	i5-8400H	vPro	P1000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002CUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002DUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002EUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	32GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	08/18

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Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display	Multi-touch	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Adapter	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20MD002FUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002GUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	32GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002HUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	08/18
20MD002JUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002KUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002LUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	32GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	2TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	08/18
20MD002MUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	08/18
20MD002NUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD002PUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MD003MUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx2 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	10/18
20MD003NUS	US	i5-8400H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	10/18
20MD003PUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx2 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	10/18
20MD003QUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	10/18
20MD003RUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	10/18
20MD003XUS	US	i5-8400H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	12/18
20MD003YUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	Ethernet Extension Cable	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	12/18

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ThinkPad P51 Platform Specifications

Processor

6th or 7th Generation Intel® Core™ i7 Processor or
Intel Xeon® Processor E3 v5 or v6 Family

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i7-6820HQ	4	8	2.7 GHz	3.6 GHz	8MB	DDR4-2133	Intel HD Graphics 530
E3-1505M v5			2.8 GHz	3.7 GHz			Intel HD Graphics P530
i7-7700HQ			2.8 GHz	3.8 GHz	6MB	DDR4-2400	Intel HD Graphics 630
i7-7820HQ			2.9 GHz	3.9 GHz	8MB		
E3-1505M v6			3.0 GHz	4.0 GHz			Intel HD Graphics P630
E3-1535M v6			3.1 GHz	4.2 GHz			

Graphics

Intel HD Graphics 530, 630, P530, or P630 in processor and
NVIDIA Quadro® M1200 or M2200, 4GB 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)

Chipset

Mobile Intel CM238 Chipset

Memory

64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets
* System clocks down for processors with lower memory controller

Display

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 170° viewing angle

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture, 220 nits (FHD only)

Pen *(optional)*

ThinkPad Pen Pro, active pen for multi-touch display

Storage

Up to 3 drives (two M.2 SSD and one HDD)
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

RAID *(optional)*

RAID 0/1 support

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:
- 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

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
** Intel 8260ac / 8265ac card support BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*

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

SIM card *(opt)*

Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

Dimensions

WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight

Models	*4-cell*	*6-cell*
Non-touch	5.6 lb / 2.55kg	5.9 lb / 2.67kg
Multi-touch	6.2 lb / 2.82kg	6.4 lb / 2.90kg

Case color

Black

Case material

Display cover: Glass-Fiber Reinforced Plastic;
Bottom: Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

ExpressCard

One slot (ExpressCard/34)

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Four USB 3.1 Gen 1 (USB 3.0, one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort 1.2a, HDMI 1.4b, Ethernet (RJ-45), Dock connector

Camera *(optional)*

HD720p resolution, fixed focus

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, numeric keypad, optional LED backlight

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

Security chip

Discrete TPM 2.0, TCG Certified

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style match on chip fingerprint reader on the palm rest

Color calibration

Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

NFC

None

Battery

Lithium Polymer 4-cell *(66Wh)* or 6-cell *(90Wh)*

Max battery life[10] (*MobileMark® 2014*)

Model	*4-cell*	*6-cell*
Discrete Graphics	4.5 hr	6.1 hr
Hybrid Graphics	6.5 hr	8.9 hr

AC adapter

170W slim tip AC adapter

Preload

One of the following, configurable by model:
- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64
- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations

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

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

Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Key-board	Finger-print Reader	NFC	Color Calibrator	TPM	Battery	Power Adapter	Operating System(OS)	Warranty	Ann Date (m/y)
20HH0004US	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0005US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0006US	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0007US	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0008US	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0009US	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000AUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000BUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000CUS	US	i7-7820HQ	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000DUS	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000EUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000FUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000GUS	US	i7-7820HQ	vPro	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000HUS	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000JUS	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000KUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	1TB 5400rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000LUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000MUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000NUS	US	i7-7820HQ	vPro	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000PUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000QUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000RUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000SUS	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17

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Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Key-board	Finger-print Reader	NFC	Color Calibrator	TPM	Battery	Power Adapter	Operating System(OS)	Warranty	Ann Date (m/y)
20HH000TUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000UUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000VUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000WUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000XUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH000YUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0010US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0011US	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	500GB 7200rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0012US	US	i7-7820HQ	vPro	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH0013US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HH002LUS	US	i7-7820HQ	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HH002MUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HH002NUS	US	i7-7820HQ	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HH002PUS	US	i7-7820HQ	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HH002QUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HH003AUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	11/17
20HH003BUS	US	i7-7820HQ	vPro	M1200 4GB	Intel CM238	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	11/17
20HH003CUS	US	i7-7820HQ	vPro	M1200 4GB	Intel CM238	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	11/17
20HH003DUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	11/17
20HH003EUS	US	i7-7820HQ	vPro	M1200 4GB	Intel CM238	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	11/17
20HH003FUS	US	i7-7700HQ	No	M1200 4GB	Intel CM238	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Non-backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	11/17
20HH003VUS	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH003WUS	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18

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Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Key-board	Finger-print Reader	NFC	Color Calibrator	TPM	Battery	Power Adapter	Operating System(OS)	Warranty	Ann Date (m/y)
20HH003XUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH003YUS	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH0040US	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH0041US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH0042US	US	Xeon E3-1535M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH0043US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH0044US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HH0045US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HH0046US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH0047US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	10-point Multi-touch	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH0048US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HH0049US	US	Xeon E3-1505M v6	vPro	M2200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18

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Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Key-board	Finger-print Reader	NFC	Color Calibrator	TPM	Battery	Power Adapter	Operating System(OS)	Warranty	Ann Date (m/y)
20MM0000US	US	i7-6820HQ	vPro	M2200 4GB	Intel CM238	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8260 ac, 2x2 + BT4.1	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/18
20MM0001US	US	Xeon E3-1505M v5	vPro	M2200 4GB	Intel CM238	16GBx1 ECC	15.6" 4K (3840x2160) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8260 ac, 2x2 + BT4.1	None	None	None	720p	Backlit	Finger-print Reader	None	X-Rite	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 for WS DG Win7 Pro 64	3-year, Depot	06/18
20MM0002US	US	Xeon E3-1505M v5	vPro	M2200 4GB	Intel CM238	16GBx1 ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8260 ac, 2x2 + BT4.1	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 for WS DG Win7 Pro 64	3-year, Depot	06/18
20MM0003US	US	i7-6820HQ	vPro	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	500GB 7200rpm	No	None	Intel 8260 ac, 2x2 + BT4.1	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/18
20MM0004US	US	i7-6820HQ	vPro	M1200 4GB	Intel CM238	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8260 ac, 2x2 + BT4.1	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/18
20MM0005US	US	i7-6820HQ	vPro	M1200 4GB	Intel CM238	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	None	Intel 8260 ac, 2x2 + BT4.1	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/18
20MM0006US	US	Xeon E3-1505M v5	vPro	M2200 4GB	Intel CM238	16GBx1 ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8260 ac, 2x2 + BT4.1	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 for WS DG Win7 Pro 64	3-year, Depot	06/18
20MM0007US	US	i7-6820HQ	vPro	M2200 4GB	Intel CM238	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 8260 ac, 2x2 + BT4.1	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/18

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ThinkPad P51s Platform Specifications

Processor

6th Generation Intel® Core™ i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i7-6500U	2	4	2.5 GHz	3.1 GHz	4MB	DDR4-2133	Intel HD Graphics 520
i7-6600U			2.6 GHz	3.4 GHz	4MB		

or 7th Generation Intel Core i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7300U	2	4	2.6 GHz	3.5 GHz	3MB	DDR4-2133	Intel HD Graphics 620
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 and
NVIDIA Quadro® M520, 2GB 2.5GHz GDDR5 memory;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 3840x2160@30Hz (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: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture (FHD 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: 14.40" x 9.95" x 0.79-0.80"; 365.8mm x 252.8mm x 19.95-20.2mm

Weight

Models	*4 + 3-cell*	*6-cell*	*4 + 6-cell*
Non-touch model	4.39 lb / 1.99 kg	4.80 lb / 2.18 kg	4.80 lb / 2.18 kg
Multi-touch model	4.44 lb / 2.01 kg	4.85 lb / 2.20 kg	4.85 lb / 2.20 kg

Case color

Black

Case material

Display cover: Glass-Fiber Reinforced Plastic (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)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: 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, numeric keypad, 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 palm rest

NFC *(optional)*

Near Field Communication

Internal battery

Optional: Integrated Li-Polymer 4-cell *(32Wh)*

External battery

Li-Polymer 3-cell *(24Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life (*MobileMark® 2014*)

Models	*4 + 3-cell*	*6-cell 48Wh*	*6-cell 72Wh*	*4 + 6-cell 48Wh*	*4 + 6-cell 72Wh*
Max battery life	13.8 hr	12.5 hr	18.5 hr	20.0 hr	26.8 hr

AC adapter

65W slim tip AC adapter 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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20HB0004US	US	i7-7500U	No	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	1TB 5400rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HB000AUS	US	i7-7500U	No	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HB000WUS	US	i7-7600U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB000XUS	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB000YUS	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" 4K (3840x2160) IPS	None	1TB 5400rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0010US	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0011US	US	i7-7600U	vPro	M520 2GB	8GBx2	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0012US	US	i7-7600U	vPro	M520 2GB	8GBx2	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0013US	US	i7-7600U	vPro	M520 2GB	8GBx1	15.6" 4K (3840x2160) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0014US	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0015US	US	i7-7500U	No	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HB0016US	US	i7-7600U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0017US	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 6-cell(72Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0018US	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB0019US	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	1TB 5400rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001AUS	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001BUS	US	i7-7600U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	1TB 5400rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001CUS	US	i7-7600U	vPro	M520 2GB	8GBx2	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001DUS	US	i5-7300U	vPro	M520 2GB	8GBx2	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001EUS	US	i7-7600U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20HB001FUS	US	i5-7300U	vPro	M520 2GB	8GBx2	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001GUS	US	i7-7600U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001HUS	US	i5-7300U	vPro	M520 2GB	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001JUS	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" 4K (3840x2160) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HB001KUS	US	i7-7500U	No	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HB001NUS	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HB001PUS	US	i7-7500U	No	M520 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HB001QUS	US	i7-7500U	No	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HB001RUS	US	i5-7300U	vPro	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HB001SUS	US	i7-7500U	No	M520 2GB	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HB001TUS	US	i7-7500U	No	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HB001UUS	US	i7-7500U	No	M520 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HB001VUS	US	i7-7500U	No	M520 2GB	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HB001XUS	US	i7-7500U	No	M520 2GB	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 Pro 64	3-year, Depot	05/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20JY0004US	US	i7-6500U	No	M520 2GB	8GBx2	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JY0005US	US	i7-6500U	No	M520 2GB	8GBx2	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JY0006US	US	i7-6500U	No	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JY0007US	US	i7-6500U	No	M520 2GB	8GBx2	15.6" 4K (3840x2160) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JY0008US	US	i7-6500U	No	M520 2GB	8GBx2	15.6" 4K (3840x2160) IPS	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JY0009US	US	i7-6500U	No	M520 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JY000AUS	US	i7-6500U	No	M520 2GB	16GBx2	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JY000BUS	US	i7-6500U	No	M520 2GB	8GBx2	15.6" 4K (3840x2160) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JY000CUS	US	i7-6500U	No	M520 2GB	16GBx2	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	65W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17

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ThinkPad P52 Platform Specifications

Processor

8th Generation Intel® Core™ i7 Processor or Intel Xeon® E Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i7-8750H	6	12	2.2 GHz	4.1 GHz	9MB	DDR4-2400	Intel UHD Graphics 630
i7-8850H			2.6 GHz	4.3 GHz	9MB		
E-2176M			2.7 GHz	4.4 GHz	12MB		Intel UHD Graphics P630

Graphics

Intel UHD Graphics 630 or P630 in processor and
NVIDIA Quadro® P1000 (4GB memory), P2000 (4GB memory), or
P3200 (6GB memory, VR ready);
supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™;
supports four independent displays;
Max resolution: 3840X2160@60Hz (DisplayPort via Mini DisplayPort cable);
5120X2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

Chipset

Mobile Intel CM246 Chipset

Memory

128GB non-ECC or 64GB ECC max / 2400MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets
* *Installed DIMMs are actually 2666MHz but run at 2400MHz due to Intel limitation*
* *128GB non-ECC memory for special bid only*

Display

Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 160° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch

Multi-touch *(opt)*

Capacitive-type multi-touch, supports 10-finger gesture (4K only)

Pen

Supports pen accessory, please see the accessory compatibility for details

Storage

Up to 3 drives (two M.2 SSD and one HDD)
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

RAID *(optional)*

RAID 0/1 support

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

Bluetooth™

Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*

Integrated Mobile Broadband 4G LTE-A,
Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions

WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm
WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm

Weight

Non-touch model: starting at 5.4 lb (2.45kg);
Multi-touch model: starting at 6.4 lb (2.9kg)

Case color

Black

Case material

Display cover: PPS;
Bottom: Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

ExpressCard

None

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Three USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3,
Mini DisplayPort 1.4, HDMI 2.0, Ethernet (RJ-45),
nano-SIM card slot (WWAN models), headphone / microphone combo jack,
optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC),
security keyhole

Camera *(optional)*

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3286 codec /
stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone,
headphone / microphone combo jack, Dolby Atmos® headphone

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight

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

Security chip

Discrete TPM 2.0, TCG Certified

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style match on chip fingerprint reader on the palm rest

Color calibration

None

NFC *(optional)*

Near Field Communication

Battery

Li-ion 90Wh battery

Max battery life (*MobileMark® 2014*)

Discrete mode: 6.1 hr; *Hybrid mode:* 8.9 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

170W slim tip AC adapter

Preload

One of the following, configurable by model:
- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations

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; ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Key-board	Finger-print Reader	NFC	Color Calibrator	TPM	Battery	Power Adapter	Operating System(OS)	Warranty	Ann Date (m/y)
20M90009US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000AUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	06/18
20M9000BUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	Fibocom L850-GL	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	07/18
20M9000CUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000DUS	US	i7-8850H	vPro	P3200 6GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	Fibocom L850-GL	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	07/18
20M9000EUS	US	i7-8850H	vPro	P3200 6GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000FUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000GUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000HUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	06/18
20M9000JUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000KUS	US	i7-8750H	No	P1000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000LUS	US	i7-8850H	vPro	P3200 6GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000MUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000NUS	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000PUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	8GBx1 ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	06/18
20M9000QUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000RUS	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	06/18
20M9000SUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000TUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000UUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	Fibocom L850-GL	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	07/18

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Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Camera	Key-board	Finger-print Reader	NFC	Color Calibrator	TPM	Battery	Power Adapter	Operating System(OS)	Warranty	Ann Date (m/y)
20M9000VUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000WUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000XUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9000YUS	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90010US	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	06/18
20M90011US	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90012US	US	i7-8850H	vPro	P3200 6GB	Intel CM246	8GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90013US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90014US	US	i7-8850H	vPro	P3200 6GB	Intel CM246	16GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90015US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90016US	US	i7-8850H	vPro	P3200 6GB	Intel CM246	16GBx2 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M9001YUS	US	i7-8850H	vPro	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90020US	US	i7-8850H	vPro	P3200 6GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90021US	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90022US	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	06/18
20M90023US	US	i7-8750H	No	P1000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90024US	US	i7-8850H	vPro	P3200 6GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90025US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18
20M90026US	US	Xeon E-2176M	vPro	P2000 4GB	Intel CM246	16GBx1 ECC	15.6" 4K (3840x2160) IPS	10-point Multi-touch	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	IR &720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	06/18
20M90027US	US	i7-8850H	vPro	P2000 4GB	Intel CM246	16GBx1 non-ECC	15.6" FHD (1920x1080) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	720p	Backlit	Finger-print Reader	None	None	dTPM 2.0	6-cell (90Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	06/18

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ThinkPad P52s Platform Specifications

Processor

8th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8350U	4	8	1.7 GHz	3.6 GHz	6MB	DDR4-2400	Intel UHD Graphics 620
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics

Intel UHD Graphics 620 in processor and
NVIDIA Quadro® P500, 2GB GDDR5 memory;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (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: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 15.6" (396mm) UHD (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture (FHD 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 / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN + Bluetooth™

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*

One of the following, configurable by model:
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions

WxDxH: 14.40" x 9.95" x 0.79-0.80"; 365.8mm x 252.8mm x 19.95-20.2mm

Weight

starting at 4.39 lb / 1.99 kg

Case color

Black

Case material

Display cover: Glass-Fiber Reinforced Plastic (PPS);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.1 Gen 1 (one Always On), USB 3.1 Type-C Gen 1, USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, 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 palm rest anti-spoofing technology

NFC *(optional)*

Near Field Communication

Battery

Optional integrated Li-ion 32Wh battery and external Li-ion 24Wh, 48Wh, or 72Wh battery

Max battery life (*MobileMark® 2014*)

Models	*48Wh*	*72Wh*	*32Wh + 24Wh*	*32Wh + 48Wh*	*32Wh + 72Wh*
Max battery life	12.2 hr	18.5 hr	13.5 hr	20.1 hr	26.3 hr

AC adapter

65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20LB000XUS	US	i5-8350U	vPro	P500 2GB	8GBx1	15.6" UHD (3840x2160) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB000YUS	US	i5-8350U	vPro	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0010US	US	i5-8350U	vPro	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0011US	US	i5-8350U	vPro	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0012US	US	i7-8650U	vPro	P500 2GB	16GBx1	15.6" UHD (3840x2160) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0013US	US	i7-8650U	vPro	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0014US	US	i5-8350U	vPro	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0015US	US	i7-8650U	vPro	P500 2GB	8GBx1	15.6" UHD (3840x2160) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0016US	US	i7-8650U	vPro	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0017US	US	i7-8650U	vPro	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0018US	US	i7-8650U	vPro	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB0019US	US	i7-8650U	vPro	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB001AUS	US	i7-8650U	vPro	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB001BUS	US	i7-8650U	vPro	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB001CUS	US	i7-8650U	vPro	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB001DUS	US	i5-8350U	vPro	P500 2GB	16GBx1	15.6" UHD (3840x2160) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB001EUS	US	i5-8350U	vPro	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB001FUS	US	i7-8650U	vPro	P500 2GB	16GBx1	15.6" UHD (3840x2160) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LB001GUS	US	i5-8350U	vPro	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0020US	US	i7-8550U	No	P500 2GB	16GBx1	15.6" UHD (3840x2160) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20LB0021US	US	i7-8550U	No	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0022US	US	i7-8550U	No	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0023US	US	i7-8550U	No	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0024US	US	i7-8550U	No	P500 2GB	16GBx1	15.6" UHD (3840x2160) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0025US	US	i7-8550U	No	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0026US	US	i7-8550U	No	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0027US	US	i7-8550U	No	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0028US	US	i7-8550U	No	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB0029US	US	i7-8650U	vPro	P500 2GB	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	03/18
20LB002FUS	US	i7-8550U	No	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	1TB 5400rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	12/18
20LB002GUS	US	i7-8550U	No	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	1TB 5400rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	12/18
20LB002HUS	US	i7-8550U	No	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	None	1TB 5400rpm + 16GB Optane Memory	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/19
20LB002JUS	US	i7-8550U	No	P500 2GB	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	1TB 5400rpm + 16GB Optane Memory	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/19

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ThinkPad P71 Platform Specifications

Processor — 7th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v6 Family

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		
E3-1505M v6			3.0 GHz	4.0 GHz			Intel HD Graphics P630
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)

Chipset — Mobile Intel CM238 Chipset

Memory — 64GB max / 2400MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets

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

Multi-touch — None

Pen — None

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

RAID *(optional)* — RAID 0/1 support

Optical *(optional)* — DVD burner, 9.5mm high, fixed, tray-in

Ethernet
- *Non-vPro model:* Intel Ethernet Connection I219-V (Jacksonville)
- *vPro model:* Intel Ethernet Connection I219-LM (Jacksonville)

WLAN — Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, M.2 card

Bluetooth™ — 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*

WWAN *(optional)* — *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

SIM card *(opt)* — Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

Dimensions — *WxDxH:* 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm

Weight — Starting at 7.3 lb (3.3kg)

Case color — Black

Case material — *Display cover:* Glass-Fiber + PPS; *Bottom:* Magnesium/Aluminum

Smart card reader — *Optional:* Smart card reader

ExpressCard — One slot (ExpressCard/34)

Media reader — 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

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

Monitor cable — *Optional:* Lenovo Mini-DisplayPort to DisplayPort Monitor Cable

Camera *(optional)* — HD720p resolution, fixed focus

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, numeric keypad, optional LED backlight

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

Security chip — Discrete TPM 2.0, TCG Certified

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — Touch style match on chip fingerprint reader on the keyboard bezel

Color calibration — *Optional:* Pantone® color calibrator by X-Rite® color calibration sensor in palm rest

NFC — None

Battery — Li-Ion 8-cell *(96Wh)*

Max battery life (*MobileMark® 2014*)

Mode	*Discrete Graphics*	*Hybrid Graphics*
Max battery life	9.8 hr	14.25 hr

AC adapter — 170W or 230W slim tip AC adapter

Preload — *One of the following, configurable by model:*
- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations

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

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

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September 2018

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Color Calibrator	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HK000VUS	US	Xeon E3-1535M v6	vPro	P3000 6GB	8GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK000WUS	US	Xeon E3-1505M v6	vPro	P4000 8GB	16GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK000XUS	US	Xeon E3-1535M v6	vPro	P5000 16GB	16GBx1 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK000YUS	US	Xeon E3-1535M v6	vPro	P4000 8GB	8GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0010US	US	Xeon E3-1535M v6	vPro	P5000 16GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0011US	US	i7-7700HQ	No	M620 2GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0012US	US	Xeon E3-1535M v6	vPro	P4000 8GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0013US	US	i7-7700HQ	No	M620 2GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	500GB 7200rpm	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0014US	US	Xeon E3-1505M v6	vPro	P3000 6GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0015US	US	Xeon E3-1505M v6	vPro	M620 2GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0016US	US	Xeon E3-1505M v6	vPro	M620 2GB	8GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0017US	US	i7-7820HQ	vPro	M620 2GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	500GB 7200rpm	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0018US	US	i7-7700HQ	No	M620 2GB	8GBx2 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK0019US	US	Xeon E3-1505M v6	vPro	P4000 8GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001AUS	US	Xeon E3-1535M v6	vPro	P3000 6GB	16GBx1 ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001BUS	US	Xeon E3-1505M v6	vPro	P3000 6GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001CUS	US	Xeon E3-1505M v6	vPro	P3000 6GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001DUS	US	Xeon E3-1535M v6	vPro	P3000 6GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001EUS	US	i7-7820HQ	vPro	M620 2GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 5400rpm	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001FUS	US	Xeon E3-1535M v6	vPro	P5000 16GB	16GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001GUS	US	i7-7700HQ	No	M620 2GB	8GBx2 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001HUS	US	Xeon E3-1535M v6	vPro	P5000 16GB	8GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001JUS	US	i7-7700HQ	No	M620 2GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Color Calibrator	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HK001KUS	US	i7-7820HQ	vPro	M620 2GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001LUS	US	Xeon E3-1535M v6	vPro	P4000 8GB	16GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001MUS	US	i7-7820HQ	vPro	M620 2GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	170W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HK001PUS	US	Xeon E3-1505M v6	vPro	P3000 6GB	8GBx2 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HK001QUS	US	i7-7820HQ	vPro	P3000 6GB	8GBx2 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HK001RUS	US	i7-7820HQ	vPro	P3000 6GB	8GBx2 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HK001SUS	US	i7-7820HQ	vPro	P3000 6GB	8GBx2 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HK001TUS	US	i7-7820HQ	vPro	P3000 6GB	8GBx2 non-ECC	17.3" FHD (1920x1080) IPS	None	None	500GB 7200rpm	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	05/17
20HK003CSS	US	Xeon E3-1535M v6	vPro	P5000 16GB	16GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003CUS	US	Xeon E3-1535M v6	vPro	P5000 16GB	16GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003DSS	US	Xeon E3-1535M v6	vPro	P5000 16GB	8GBx2 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003DUS	US	Xeon E3-1535M v6	vPro	P5000 16GB	8GBx2 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003ESS	US	Xeon E3-1535M v6	vPro	P3000 6GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003EUS	US	Xeon E3-1535M v6	vPro	P3000 6GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003FSS	US	Xeon E3-1535M v6	vPro	P4000 8GB	8GBx2 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003FUS	US	Xeon E3-1535M v6	vPro	P4000 8GB	8GBx2 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003GSS	US	Xeon E3-1505M v6	vPro	M2200 4GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003GUS	US	Xeon E3-1505M v6	vPro	M2200 4GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003HSS	US	Xeon E3-1535M v6	vPro	M2200 4GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003HUS	US	Xeon E3-1535M v6	vPro	M2200 4GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003JSS	US	Xeon E3-1505M v6	vPro	P3000 6GB	8GBx2 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003JUS	US	Xeon E3-1505M v6	vPro	P3000 6GB	8GBx2 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003KSS	US	Xeon E3-1505M v6	vPro	P3000 6GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Color Calibrator	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HK003KUS	US	Xeon E3-1505M v6	vPro	P3000 6GB	8GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003LSS	US	Xeon E3-1505M v6	vPro	P4000 8GB	16GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003LUS	US	Xeon E3-1505M v6	vPro	P4000 8GB	16GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	None	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18
20HK003MSS	US	Xeon E3-1535M v6	vPro	P4000 8GB	16GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64	3-year, Depot	01/18
20HK003MUS	US	Xeon E3-1535M v6	vPro	P4000 8GB	16GBx2 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Blank Bezel	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	X-Rite	Finger-print Reader	None	dTPM 2.0	8-cell (96Wh)	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	01/18

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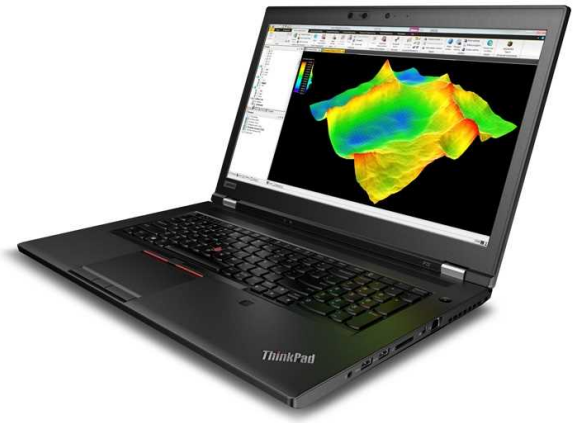

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ThinkPad P72 Platform Specifications

Processor

8th Generation Intel® Core™ i7 Processor or Intel Xeon® E Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i7-8750H	6	12	2.2 GHz	4.1 GHz	9MB	DDR4-2400	Intel UHD Graphics 630
i7-8850H			2.6 GHz	4.3 GHz	9MB		
E-2176M			2.7 GHz	4.4 GHz	12MB		Intel UHD Graphics P630
E-2186M			2.9 GHz	4.8 GHz	12MB		

Graphics

Intel UHD Graphics 630 or P630 in processor and
NVIDIA Quadro® P600 (4GB memory), P2000 (4GB memory),
P3200 (6GB memory), P4200 (8GB memory), or P5200 (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);
5120X2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

Chipset

Mobile Intel CM246 Chipset

Memory

128GB non-ECC or 64GB ECC max / 2400MHz DDR4 (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets
* *Installed DIMMs are actually 2666MHz but run at 2400MHz due to Intel limitation*

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, 400 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% Adobe CG, 170° viewing angle

Multi-touch

None

Pen

Supports pen accessory, please see the accessory compatibility for details

Storage

Up to 3 drives (two M.2 SSD and one HDD)
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

RAID *(optional)*

RAID 0/1 support

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

Bluetooth™

Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

SIM card

None

Dimensions

WxDxH: 16.38" x 11.06" x 0.96-1.16"; 416mm x 281mm x 24.5-29.4mm

Weight

Starting at 7.5 lb (3.4kg)

Case color

Black

Case material

Display cover: GFRP + PPS;
Bottom: Magnesium/Aluminum

Smart card reader

Optional: Smart card reader

ExpressCard

None

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card

Ports

Four USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3,
Mini DisplayPort 1.4, HDMI 2.0, Ethernet (RJ-45),
headphone / microphone combo jack, optional smart card reader,
4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole

Monitor cable

Optional: Lenovo Mini-DisplayPort to DisplayPort Monitor Cable

Camera *(optional)*

IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3286 codec /
stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone,
headphone / microphone combo jack, Dolby Atmos® headphone

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, LED backlight

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

Security chip

Discrete TPM 2.0, TCG Certified

vPro *(optional)*

Intel vPro Technology

Fingerprint reader

Touch style match on chip fingerprint reader on the palm rest

Color calibration

None

NFC *(optional)*

Near Field Communication

Battery

Li-ion 99Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max battery life (*MobileMark® 2014*)

18 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

230W slim tip AC adapter

Preload

One of the following, configurable by model:
- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 Pro 64 for Workstations

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; ENERGY STAR® 7.0; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20MB001EUS	US	i7-8850H	vPro	P2000 4GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001FUS	US	i7-8850H	vPro	P2000 4GB	16GBx1 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001GUS	US	Xeon E-2176M	vPro	P4200 8GB	16GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB001HUS	US	Xeon E-2186M	vPro	P5200 16GB	16GBx1 ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB001JUS	US	i7-8750H	No	P2000 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001KUS	US	i7-8850H	vPro	P600 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001LUS	US	i7-8850H	vPro	P600 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001MUS	US	i7-8850H	vPro	P2000 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001NUS	US	i7-8750H	No	P600 4GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001PUS	US	i7-8850H	vPro	P3200 6GB	16GBx1 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001QUS	US	Xeon E-2176M	vPro	P4200 8GB	16GBx1 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB001RUS	US	i7-8750H	No	P2000 4GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001SUS	US	i7-8850H	vPro	P600 4GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001TUS	US	i7-8850H	vPro	P600 4GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001UUS	US	i7-8850H	vPro	P3200 6GB	32GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001VUS	US	Xeon E-2176M	vPro	P4200 8GB	16GBx1 ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB001WUS	US	i7-8750H	No	P2000 4GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	256GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001XUS	US	i7-8850H	vPro	P3200 6GB	16GBx1 non-ECC	17.3" 4K (3840x2160) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB001YUS	US	i7-8850H	vPro	P2000 4GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB0020US	US	i7-8850H	vPro	P3200 6GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20MB0021US	US	i7-8750H	No	P600 4GB	16GBx1 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB0022US	US	i7-8850H	vPro	P2000 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB0023US	US	i7-8850H	vPro	P3200 6GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB0024US	US	Xeon E-2186M	vPro	P5200 16GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB0025US	US	i7-8850H	vPro	P2000 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB0026US	US	Xeon E-2186M	vPro	P5200 16GB	16GBx2 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB0027US	US	Xeon E-2186M	vPro	P5200 16GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB0028US	US	Xeon E-2176M	vPro	P4200 8GB	8GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB0029US	US	Xeon E-2176M	vPro	P4200 8GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB002AUS	US	Xeon E-2176M	vPro	P4200 8GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB002BUS	US	i7-8750H	No	P600 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002CUS	US	Xeon E-2176M	vPro	P4200 8GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB002DUS	US	i7-8850H	vPro	P2000 4GB	16GBx1 non-ECC	17.3" 4K (3840x2160) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002EUS	US	i7-8750H	No	P2000 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002FUS	US	Xeon E-2186M	vPro	P5200 16GB	16GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB002GUS	US	i7-8750H	No	P600 4GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002HUS	US	i7-8750H	No	P2000 4GB	16GBx1 non-ECC	17.3" 4K (3840x2160) IPS	None	None	512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002JUS	US	Xeon E-2186M	vPro	P5200 16GB	16GBx1 ECC	17.3" 4K (3840x2160) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18
20MB002KUS	US	i7-8750H	No	P600 4GB	8GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002LUS	US	i7-8850H	vPro	P2000 4GB	32GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Pen	Storage(HDD/SSD)	RAID	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20MB002MUS	US	i7-8750H	No	P2000 4GB	32GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002NUS	US	i7-8850H	vPro	P3200 6GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm + 512GB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002PUS	US	i7-8850H	vPro	P3200 6GB	16GBx1 non-ECC	17.3" FHD (1920x1080) IPS	None	None	1TB SSD M.2 PCIe NVMe Opal2	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64	3-year, Depot	09/18
20MB002QUS	US	Xeon E-2186M	vPro	P5200 16GB	8GBx1 ECC	17.3" FHD (1920x1080) IPS	None	None	1TB 7200rpm	No	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	99Wh	230W Slim Tip	Win10 Pro 64 for WS	3-year, Depot	09/18

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ThinkPad T470 Platform Specifications

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

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

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*)

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HD000QUS	US	i5-7200U	No	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20HD000RUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20HD000SUS	US	i5-7200U	No	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	128GB SSD	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20HD000TUS	US	i5-7200U	No	Intel HD 620	8GB	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20HD000UUS	US	i5-7200U	No	Intel HD 620	8GB	14" HD (1366x768)	None	128GB SSD	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20HD000VUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20HD000WUS	US	i5-7200U	No	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20HD000XUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20HD004AUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	03/17
20HD004BUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HD0056US	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Magnesium	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD0057US	US	i7-7600U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Magnesium	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD0058US	US	i7-7600U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD005AUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD005BUS	US	i7-7600U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD005CUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD005DUS	US	i7-7600U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD005EUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD005FUS	US	i7-7600U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HD005GUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HD0066US	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HD0067US	US	i5-7200U	No	Intel HD 620	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HD0068US	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HD0069US	US	i5-7200U	No	Intel HD 620	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HD006AUS	US	i5-7300U	vPro	Intel HD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HD006BUS	US	i5-7300U	vPro	Intel HD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HD006FUS	US	i7-7600U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HD006XUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	512GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	NFC	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	10/17
20HD006YUS	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	NFC	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	10/17
20HD0070US	US	i5-7300U	vPro	Intel HD 620	8GB	14" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	NFC	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	10/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20JM0009US	US	i5-6300U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JM000AUS	US	i7-6600U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JM000BUS	US	i7-6500U	No	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JM000CUS	US	i5-6200U	No	Intel HD 520	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	03/17
20JM000EUS	US	i5-6300U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JM000FUS	US	i7-6600U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JM000GUS	US	i7-6600U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JM000HUS	US	i5-6300U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JM000JUS	US	i7-6600U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JM000KUS	US	i7-6600U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JM000LUS	US	i7-6600U	vPro	Intel HD 520	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JM000MUS	US	i7-6600U	vPro	Intel HD 520	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JM000QUS	US	i5-6300U	vPro	Intel HD 520	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20JM000RUS	US	i5-6300U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20JM000SUS	US	i5-6200U	No	Intel HD 520	8GB	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17
20JM0012US	US	i5-6300U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	10/17
20JM0013US	US	i5-6300U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	512GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	10/17
20JM0014US	US	i5-6300U	vPro	Intel HD 520	8GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(24Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	10/17

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ThinkPad T470p Platform Specifications

Product Specifications Reference (PSREF)

Processor

7th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7300HQ	4	4	2.5 GHz	3.5 GHz	6MB	DDR4-2400	Intel HD Graphics 630
i5-7440HQ			2.8 GHz	3.8 GHz	6MB		
i7-7700HQ		8	2.8 GHz	3.8 GHz	6MB		
i7-7820HQ			2.9 GHz	3.9 GHz	8MB		

Graphics

Intel HD Graphics 630 in processor only, or
Intel HD Graphics 630 in processor and
NVIDIA GeForce® 940MX, 2GB 2.5GHz GDDR5 memory;
supports external digital monitor via HDMI or Mini DisplayPort;
supports three independent displays;
Max resolution: 4096x2304@60Hz (DisplayPort via Mini DisplayPort cable);
4096x2160@24Hz (HDMI)

Chipset

Mobile Intel QM175 Chipset

Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display

Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture (FHD 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 or 9.5mm 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

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:
- Realtek® RTL8822BE, 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

Bluetooth™

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*

WWAN *(optional)*

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

SIM card *(opt)*

Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

Dimensions

WxDxH (FHD): 13.35" x 9.25" x 0.94"; 339mm x 235mm x 24mm
WxDxH (WQHD): 13.35" x 9.25" x 0.96"; 339mm x 235mm x 24.4mm

Weight

Models	*3-cell*	*6-cell*
Integrated model	3.83 lb / 1.74 kg	4.16 lb / 1.89 kg
Discrete model	4.01 lb / 1.82 kg	4.33 lb / 1.96 kg

Case color

Black

Case material

Display cover: PC/ABS plastic;
Bottom: Magnesium alloy

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Three USB 3.1 Gen 1 (USB 3.0, one Always On),
HDMI 1.4b, Mini DisplayPort 1.2a, Ethernet (RJ-45), Dock connector

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
MiniDP to DP: Lenovo Mini-DisplayPort to DisplayPort Monitor Cable

Camera

HD720p resolution, fixed focus

Audio support

HD Audio, Realtek ALC3268 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, 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

Touch style match on chip fingerprint reader on the keyboard bezel

NFC

None

Battery

Li-Ion 3-cell *(24Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life

MobileMark® 2014: 12.85 hr

AC adapter

90W or 135W slim tip 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

Model	Region	Processor vPro	Graphics	Chipset	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20J6001BUS	US	i5-7440HQ vPro	940MX 2GB	Intel QM175	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20J6001CUS	US	i5-7440HQ vPro	940MX 2GB	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20J6001DUS	US	i5-7440HQ vPro	Intel HD 630	Intel QM175	4GBx2	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (24Wh)	90W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20J6001EUS	US	i5-7440HQ vPro	940MX 2GB	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20J6001FUS	US	i5-7440HQ vPro	Intel HD 630	Intel QM175	4GBx2	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	90W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20J6001GUS	US	i5-7440HQ vPro	Intel HD 630	Intel QM175	4GBx2	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	90W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20J6001HUS	US	i5-7440HQ vPro	Intel HD 630	Intel QM175	4GBx2	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (24Wh)	90W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20J6001JUS	US	i5-7440HQ vPro	940MX 2GB	Intel QM175	4GBx2	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20J6003JUS	US	i7-7820HQ vPro	940MX 2GB	Intel QM175	16GBx1	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J6003KUS	US	i7-7820HQ vPro	940MX 2GB	Intel QM175	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J6003LUS	US	i7-7820HQ vPro	940MX 2GB	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J6003MUS	US	i5-7440HQ vPro	Intel HD 630	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	90W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J6003NUS	US	i5-7440HQ vPro	Intel HD 630	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	90W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J6003PUS	US	i7-7820HQ vPro	940MX 2GB	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20J6003UUS	US	i7-7820HQ vPro	940MX 2GB	Intel QM175	8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20J6003VUS	US	i7-7820HQ vPro	940MX 2GB	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20J6003WUS	US	i5-7440HQ vPro	Intel HD 630	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	90W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20J6003XUS	US	i7-7820HQ vPro	940MX 2GB	Intel QM175	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	6-cell (48Wh)	135W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20J6003YUS	US	i5-7440HQ vPro	Intel HD 630	Intel QM175	8GB	14" FHD (1920x1080) IPS	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (24Wh)	90W Slim Tip	Win10 Pro 64	3-year, Depot	06/17

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ThinkPad T470s Platform Specifications

Processor

6th Generation Intel® Core™ i5 / i7 Processor

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		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

or 7th Generation Intel Core i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	DDR4-2133	Intel HD Graphics 620
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;
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
20GB or 24GB max[7] / 2400MHz DDR4, dual-channel capable,
4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket
* System clocks down for processors with lower memory controller

Display
Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle

Multi-touch *(opt)*
On-cell touch, supports 10-finger gesture, 250 nits (FHD only)

Storage
One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

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 is mutually exclusive with WWAN):
- 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 (mutually exclusive with WiGig):
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455), M.2 card

SIM card *(opt)*
- Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

Dimensions *WxDxH:* 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm

Weight Starting at 2.9 lb (1.32kg)

Case color Black or Silver

Case material *Display cover:* CFRP Hybrid;
Bottom: Magnesium

Smart card reader *Optional:* Smart card reader

Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC)

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, mutually exclusive with WWAN

Monitor cable *(optional)* *HDMI to VGA:* Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter

Camera *(optional)* HD720p resolution, fixed focus
(models without camera are NOT available in EMEA)

Audio support HD Audio, Realtek® ALC3268 codec / stereo speakers, 1W 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 palm rest

NFC *(optional)* Near Field Communication

Internal battery Front Li-Polymer 3-cell *(23Wh)* and rear Li-Ion 3-cell *(26Wh)*, both Integrated

Max battery life *MobileMark® 2014:* up to 10.5 hr

AC adapter 45W 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

Model	Region	Processor	vPro	Graphics	Memory (Soldered +DIMM)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HF0010US	US	i7-7600U	vPro	Intel HD 620	4GB + 8GB	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF0011US	US	i5-7300U	vPro	Intel HD 620	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF0012US	US	i5-7300U	vPro	Intel HD 620	4GB + 4GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF0013US	US	i7-7600U	vPro	Intel HD 620	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF0014US	US	i5-7200U	No	Intel HD 620	4GB Soldered	14" FHD (1920x1080) IPS	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	02/17
20HF0015US	US	i7-7600U	vPro	Intel HD 620	4GB + 4GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF001DUS	US	i7-7600U	vPro	Intel HD 620	8GB + 16GB	14" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HF003QUS	US	i7-7600U	vPro	Intel HD 620	4GB + 8GB	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF003RUS	US	i5-7200U	No	Intel HD 620	4GB + 4GB	14" WQHD (2560x1440) IPS	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HF003SUS	US	i5-7200U	No	Intel HD 620	4GB + 4GB	14" WQHD (2560x1440) IPS	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HF003TUS	US	i7-7600U	vPro	Intel HD 620	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF003UUS	US	i5-7300U	vPro	Intel HD 620	4GB + 4GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF003VUS	US	i5-7200U	No	Intel HD 620	4GB Soldered	14" FHD (1920x1080) IPS	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	02/17
20HF003WUS	US	i5-7300U	vPro	Intel HD 620	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HF0044US	US	i7-7600U	vPro	Intel HD 620	8GB + 8GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HF005GUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HF005HUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HF005JUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HF005KUS	US	i7-7600U	vPro	Intel HD 620	8GB + 16GB	14" FHD (1920x1080) IPS	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HF005LUS	US	i7-7600U	vPro	Intel HD 620	8GB + 16GB	14" FHD (1920x1080) IPS	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17

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Model	Region	Processor	vPro	Graphics	Memory (Soldered +DIMM)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HF005MUS	US	i7-7600U	vPro	Intel HD 620	8GB + 16GB	14" WQHD (2560x1440) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20HF005NUS	US	i5-7200U	No	Intel HD 620	4GB Soldered	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	04/17
20HF0063US	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20HF0064US	US	i5-7300U	vPro	Intel HD 620	8GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HF0065US	US	i7-7600U	vPro	Intel HD 620	8GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HF0066US	US	i5-7300U	vPro	Intel HD 620	8GB + 8GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	07/17
20HF006KUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	10/17
20HF006LUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	10/17

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Model	Region	Processor	vPro	Graphics	Memory (Soldered +DIMM)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20JS0004US	US	i7-6600U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JS000MUS	US	i7-6600U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/17
20JS0014US	US	i5-6300U	vPro	Intel HD 520	4GB Soldered	14" FHD (1920x1080) IPS	None	128GB SSD M.2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	03/17
20JS0015US	US	i5-6300U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JS0016US	US	i5-6300U	vPro	Intel HD 520	4GB Soldered	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	03/17
20JS0017US	US	i5-6300U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	Smart Card Reader	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JS0018US	US	i5-6300U	vPro	Intel HD 520	4GB Soldered	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	1-year, Depot	03/17
20JS0019US	US	i5-6300U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JS001AUS	US	i7-6600U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JS001BUS	US	i7-6600U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JS001CUS	US	i7-6600U	vPro	Intel HD 520	4GB + 16GB	14" FHD (1920x1080) IPS	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JS001DUS	US	i7-6600U	vPro	Intel HD 520	4GB + 16GB	14" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JS001GUS	US	i5-6300U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/17
20JS001HUS	US	i5-6300U	vPro	Intel HD 520	4GB + 8GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20JS001JUS	US	i7-6600U	vPro	Intel HD 520	4GB + 8GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20JS001KUS	US	i7-6600U	vPro	Intel HD 520	4GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20JS001LUS	US	i5-6300U	vPro	Intel HD 520	4GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20JS0023US	US	i5-6300U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	10/17
20JS0024US	US	i5-6300U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	10/17
20JS0025US	US	i5-6300U	vPro	Intel HD 520	4GB + 4GB	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(26Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	10/17

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ThinkPad T480 Platform Specifications

Product Specifications Reference (PSREF)

Processor

7th Generation Intel® Core™ i5 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	DDR4-2133	Intel HD Graphics 620
i5-7300U			2.6 GHz	3.5 GHz	3MB		

or 8th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB		
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory
(discrete graphics is available only on i7 models in EMEA);
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (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, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture (FHD 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 / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN
Some: 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as storage cache for HDD, mutually exclusive with WWAN

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN + Bluetooth™

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*

One of the following, configurable by model (mutually exclusive with Intel Optane memory):
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

* For non-WWAN model, it means the model is NOT WWAN upgradable

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions

WxDxH: 13.25" x 9.15" x 0.79"; 336.6mm x 232.5mm x 19.95mm

Weight

Models	*24Wh or 24Wh + 24Wh*	*48Wh, 72Wh, or 24Wh + 48Wh / 72Wh*
Integrated Magnesium	3.49 lb / 1.58 kg	3.92 lb / 1.78 kg
Integrated PPS	3.63 lb / 1.65 kg	4.08 lb / 1.85 kg
Discrete Magnesium	3.53 lb / 1.60 kg	3.97 lb / 1.80 kg
Discrete PPS	3.68 lb / 1.67 kg	4.12 lb / 1.87 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)

Ports

Two USB 3.1 Gen 1 (one Always On), one USB 3.1 Type-C Gen 1, one USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 media reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo 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, anti-spoofing technology

NFC *(optional)*

Near Field Communication

Battery

Optional integrated Li-ion 24Wh battery and external Li-ion 24Wh, 48Wh, or 72Wh battery

Max battery life (*MobileMark® 2014*)

Models	*24Wh*	*48Wh*	*72Wh*	*24Wh + 24Wh*	*24Wh + 48Wh*	*24Wh + 72Wh*
Integrated model	7.2 hr	14.4 hr	21.8 hr	14.4 hr	21.8 hr	29.0 hr
Discrete model	6.6 hr	13.2 hr	19.8 hr	13.6 hr	19.8 hr	26.4 hr

* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

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

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20L5000TUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5000UUS	US	i7-8550U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5000VUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5000WUS	US	i5-8250U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20L5000XUS	US	i7-8650U	vPro	MX150 2GB	16GBx1	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5000YUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50010US	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50011US	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50012US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50013US	US	i7-8650U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50014US	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50015US	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50016US	US	i5-7300U	vPro	Intel HD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20L50017US	US	i5-8350U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50018US	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L50019US	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5001AUS	US	i5-8350U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5001BUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	128GB SSD	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5001CUS	US	i7-8550U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L5001DUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Case Material	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20L5004HUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20L5004JUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004KUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004LUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004MUS	US	i7-8550U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004NUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004PUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5004QUS	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L50053US	US	i5-8250U	No	Intel UHD 620	4GBx1	14" HD (1366x768)	None	500GB 7200rpm + 16GB Optane Memory	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	04/18
20L50054US	US	i5-8350U	vPro	Intel UHD 620	4GBx1	14" FHD (1920x1080) IPS	None	500GB 7200rpm + 16GB Optane Memory	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L5005BUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" HD (1366x768)	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	06/18
20L5005CUS	US	i5-8250U	No	Intel UHD 620	8GBx1	14" FHD (1920x1080) IPS	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	06/18
20L5005JUS	US	i5-7200U	No	Intel HD 620	8GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	08/18
20L5005KUS	US	i5-7200U	No	Intel HD 620	8GBx1	14" HD (1366x768)	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	08/18
20L5005LUS	US	i5-7200U	No	Intel HD 620	8GBx1	14" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	08/18
20L50064US	US	i7-8650U	vPro	Intel UHD 620	16GBx1	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	PPS	720p	Backlit	Finger-print Reader	None	dTPM 2.0	24Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	10/18

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ThinkPad T480s Platform Specifications

Processor

7th Generation Intel® Core™ i5 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	DDR4-2133	Intel HD Graphics 620
i5-7300U			2.6 GHz	3.5 GHz	3MB		

or 8th Generation Intel Core i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	DDR4-2400	Intel UHD Graphics 620
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or
Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150,
2GB 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@30Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

20GB or 24GB max / 2400MHz DDR4, dual-channel capable,
4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket
* System clocks down for processors with lower memory controller

Display

Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle, supports ThinkPad Privacy Guard on some models
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture, 250 nits (FHD only)

Storage

One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN + Bluetooth™

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*

One of the following, configurable by model:
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions

WxDxH: 13.03" x 8.93" x 0.73"; 331mm x 226.8mm x 18.45mm

Weight

Starting at 2.9 lb (1.32kg)

Case color

Black or Silver

Case material

Display cover: CFRP Hybrid;
Bottom: Magnesium

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.1 Gen 1 (one Always On), USB 3.1 Type-C Gen 1,
USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet (RJ-45),
nano-SIM card slot (WWAN models), headphone / microphone combo jack,
optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC),
side docking connector, security keyhole

Monitor cable *(optional)*

USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3287 codec /
stereo speakers, 1W x 2, Dolby® Audio™ Premium /
dual array microphone, headphone / microphone combo 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 palm rest, anti-spoofing technology

NFC *(optional)*

Near Field Communication

Battery

Integrated Li-ion 57Wh battery, supports Rapid Charge (0-80% in 60 mins) with 65W USB Type-C AC adapter

Max battery life

MobileMark® 2014: 15.6 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W USB Type-C AC adapter

Operating system

Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

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

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November 2018

Model	Region	Processor	vPro	Graphics	Memory (Soldered +DIMM)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20L7001WUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7001XUS	US	i5-8350U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7001YUS	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70020US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70021US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70022US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70023US	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70024US	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70025US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70026US	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70027US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L70029US	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002CUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002DUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002EUS	US	i5-8350U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002FUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002HUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7002KUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	01/18
20L7004GUS	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L7004HUS	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18

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Model	Region	Processor	vPro	Graphics	Memory (Soldered +DIMM)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20L7004JUS	US	i5-7300U	vPro	Intel HD 620	4GB + 4GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L7004KUS	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L7004LUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L70054US	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20L70055US	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20L7005BUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS, Privacy	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20L7005CUS	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS, Privacy	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20L7005EUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS, Privacy	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20L7005FUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS, Privacy	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	07/18
20L7005RUS	US	i7-8650U	vPro	Intel UHD 620	8GB + 8GB	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	10/18

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ThinkPad T570 Platform Specifications

Processor

6th Generation Intel® Core™ i5 / i7 Processor

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		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

or 7th Generation Intel Core i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	DDR4-2133	Intel HD Graphics 620
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 520 or 620 in processor and
NVIDIA GeForce® 940MX, 2GB 2.5GHz GDDR5 memory;
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: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits,16:9 aspect ratio, 400:1 contrast ratio
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture (FHD 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 (US only)
- 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: 14.40" x 9.95" x 0.79-0.80"; 365.8mm x 252.8mm x 19.95-20.2mm

Weight

Starting at 4.34 lb / 1.97 kg

Case color

Black

Case material

Display cover: Glass-Fiber Reinforced Plastic (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 (US only)

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: 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, numeric keypad, 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 palm rest

NFC *(optional)*

Near Field Communication

Internal battery

Optional: Integrated Li-Polymer 4-cell *(32Wh)*

External battery

Li-Polymer 3-cell *(24Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life (*MobileMark® 2014*)

Models	*4 + 3-cell*	*6-cell 48Wh*	*6-cell 72Wh*	*4 + 6-cell 48Wh*	*4 + 6-cell 72Wh*
Integrated	13.8 hr	12.5 hr	18.5 hr	20.3 hr	27.1 hr
discrete	13.8 hr	12.5 hr	18.5 hr	20.0 hr	26.8 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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20H9000MUS	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20H9000NUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20H9000PUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20H9000QUS	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20H9000RUS	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20H9000SUS	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	1-year, Depot	01/17
20H9000TUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20H9000UUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	01/17
20H9004FUS	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20H9004NUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H9004PUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H9004QUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H9004RUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	15.6" 4K (3840x2160) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H9004SUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H9004TUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H9004UUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H9004VUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H9004WUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	04/17
20H90056US	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20H90057US	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	06/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20H90058US	US	i5-7200U	No	Intel HD 620	4GBx1	15.6" HD (1366x768)	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20H90059US	US	i7-7600U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	06/17
20H9005CUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	10/17
20H9005DUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	10/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20JW0004US	US	i7-6600U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JW0005US	US	i5-6300U	vPro	Intel HD 520	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JW0006US	US	i5-6300U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20JW0007US	US	i7-6600U	vPro	Intel HD 520	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JW0008US	US	i5-6300U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JW0009US	US	i7-6600U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	04/17
20JW000CUS	US	i7-6600U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/17
20JW000DUS	US	i5-6300U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	06/17
20JW000GUS	US	i5-6300U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	10/17
20JW000HUS	US	i5-6300U	vPro	Intel HD 520	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	4-cell(32Wh) + 3-cell(24Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	10/17

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ThinkPad T580 Platform Specifications

Processor

7th Generation Intel® Core™ i5 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	DDR4-2133	Intel HD Graphics 620
i5-7300U			2.6 GHz	3.5 GHz	3MB		

or 8th Generation Intel Core i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	DDR4-2400	Intel UHD Graphics 620
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics

Intel HD Graphics 620 or Intel UHD Graphics 620 in processor only or
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor and NVIDIA® GeForce® MX150, 2GB GDDR5 memory;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (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: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 15.6" (396mm) UHD (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 72% gamut, 170° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture (FHD 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 / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as 2nd Storage, mutually exclusive with WWAN
Some: 16GB Intel Optane™ memory, PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, in WWAN slot as storage cache for HDD, mutually exclusive with WWAN

Optical

None

Ethernet

Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN + Bluetooth™

Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*

One of the following, configurable by model:
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

* For non-WWAN model, it means the model is NOT WWAN upgradable

SIM card *(opt)*

Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions

WxDxH: 14.40" x 9.95" x 0.79-0.80"; 365.8mm x 252.8mm x 19.95-20.2mm

Weight

Integrated model: starting at 4.29 lb / 1.95 kg;
Discrete model: starting at 4.39 lb / 1.99 kg

Case color

Black

Case material

Display cover: Glass-Fiber Reinforced Plastic (PPS);
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.1 Gen 1 (one Always On), USB 3.1 Type-C Gen 1, USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet (RJ-45), nano-SIM card slot (WWAN models), headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), side docking connector, security keyhole

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*

One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support

HD Audio, Realtek® ALC3287 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad, 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 palm rest, anti-spoofing technology

NFC *(optional)*

Near Field Communication

Battery

Optional integrated Li-ion 32Wh battery and external Li-ion 24Wh, 48Wh, or 72Wh battery

Max battery life (*MobileMark® 2014*)

Models	*24Wh*	*48Wh*	*72Wh*	*32Wh + 24Wh*	*32Wh + 48Wh*	*32Wh + 72Wh*
Max battery life	5.8 hr	12.5 hr	18.1 hr	13.8 hr	20.3 hr	26.1 hr

* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20L90018US	US	i5-8250U	No	Intel UHD 620	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L90019US	US	i5-8350U	vPro	Intel UHD 620	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001AUS	US	i7-8650U	vPro	Intel UHD 620	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001BUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001DUS	US	i7-8550U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001FUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001GUS	US	i7-8650U	vPro	Intel UHD 620	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001JUS	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001KUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001LUS	US	i7-8650U	vPro	Intel UHD 620	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001MUS	US	i7-8550U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001NUS	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001PUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001QUS	US	i5-8350U	vPro	Intel UHD 620	16GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001RUS	US	i5-7300U	vPro	Intel HD 620	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	02/18
20L9001SUS	US	i7-8650U	vPro	Intel UHD 620	16GBx1	15.6" UHD (3840x2160) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001UUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9001VUS	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20L9003EUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L9003FUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20L9003GUS	US	i7-8550U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L9003HUS	US	i7-8650U	vPro	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L9003JUS	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L9003KUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L9003LUS	US	i7-8650U	vPro	Intel UHD 620	16GBx1	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L90041US	US	i5-8250U	No	Intel UHD 620	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2 + 16GB Optane Memory	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L90042US	US	i5-8350U	vPro	Intel UHD 620	4GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2 + 16GB Optane Memory	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20L90046US	US	i5-8250U	No	Intel UHD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20L90047US	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	500GB 7200rpm Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	08/18
20L90048US	US	i5-7200U	No	Intel HD 620	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	1-year, Depot	08/18
20L9004KUS	US	i7-8650U	vPro	Intel UHD 620	16GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	32Wh + 24Wh	65W USB-C	Win10 Pro 64	3-year, Depot	10/18

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ThinkPad X1 Carbon (5th Gen) Platform Specifications

Processor — 6th Generation Intel® Core™ i5 / i7 Processor *(EMEA has only i5-6300U and i7-6600U)*

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	LPDDR3-1866	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 i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	LPDDR3-1866	Intel HD Graphics 620
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;
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 — 8GB or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets

Display — *Some:* 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle
Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Multi-touch — None

Storage — *One of the following, configurable by model:*
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

Optical — None

Ethernet — Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*) via optional ThinkPad Ethernet Extension Cable

WLAN — *One of the following, configurable by model (WiGig can coexist with WWAN):*
- 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)* — Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

SIM card *(opt)* — Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

Dimensions — *WxDxH:* 12.74" x 8.55" x 0.63"; 323.5mm x 217.1mm x 15.95mm

Weight — Starting at 2.49 lb / 1.13 kg

Case color — Black or Silver (silver is NOT available in EMEA)

Case material — *Display cover:* CFRP/GFRP hybrid;
Bottom: magnesium alloy hybrid

Smart card reader — None

Media reader — MicroSD card reader, supports UHS-II microSD card

Ports — Two USB 3.1 Gen 1 (USB 3.0, one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (support data, video, and power delivery), HDMI 1.4b, Ethernet extension connector

WiGig dock *(opt)* — ThinkPad WiGig dock

Monitor cable *(optional)* — *HDMI to VGA:* Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)* — *720p:* HD720p resolution, fixed focus
IR & 720p: IR camera and HD720p camera

Audio support — HD Audio, Conexant® CX11871 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless Glass 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 — Touch style match on chip fingerprint reader on the palm rest

NFC *(optional)* — Near Field Communication

Battery — Integrated Li-Polymer 3-cell *(57Wh)* RapidCharge battery

Max battery life — *MobileMark® 2014:* 15.5 hr

AC adapter — 45W or 65W USB Type-C AC adapter

RapidCharge

AC adapter	*45W USB-C*	*65W USB-C*
Charge to 80%	Not support	1.0 hr
Charge to 100%	Not support	2.5 hr

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

Model	Region	Processor	vPro	Graphics	Memory (Soldered)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Dock	Monitor Cable	Adapter	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HR000DUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR000EUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HR000FUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR000GUS	US	i5-7200U	No	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HR000HUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR000JUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HR000KUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HR000LUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HR000MUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR000WUS	US	i5-7200U	No	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR0011US	US	i5-7200U	No	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	128GB SSD M.2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR003CUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR003DUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR003EUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	02/17
20HR0053US	US	i7-7500U	No	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HR0057US	US	i7-7500U	No	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HR0058US	US	i7-7500U	No	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	03/17
20HR005FUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	04/17
20HR005HUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	04/17
20HR005KUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	04/17

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Model	Region	Processor	vPro	Graphics	Memory (Soldered)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Dock	Monitor Cable	Adapter	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20HR006HUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006JUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006KUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006LUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006MUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006NUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006PUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006QUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006RUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006SUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006TUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006UUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17
20HR006VUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 Pro 64	3-year, Depot	07/17

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ThinkPad X1 Carbon (5th Gen) - TopSeller - 20K4

Product Specifications Reference (PSREF)

Model	Region	Processor	vPro	Graphics	Memory (Soldered)	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Dock	Monitor Cable	Adapter	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20K4001WUS	US	i5-6200U	No	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K4001XUS	US	i5-6300U	vPro	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K4001YUS	US	i7-6600U	vPro	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K40020US	US	i7-6600U	vPro	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K40021US	US	i5-6200U	No	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K4002RUS	US	i7-6500U	No	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K4002SUS	US	i7-6500U	No	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K4002TUS	US	i7-6500U	No	Intel HD 520	8GB Soldered	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K4002UUS	US	i5-6200U	No	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	180GB SSD M.2 Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K4002WUS	US	i7-6600U	vPro	Intel HD 520	16GB Soldered	14" WQHD (2560x1440) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20K4002XUS	US	i5-6300U	vPro	Intel HD 520	8GB Soldered	14" WQHD (2560x1440) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20K4002YUS	US	i5-6300U	vPro	Intel HD 520	8GB Soldered	14" WQHD (2560x1440) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	07/17
20K40030US	US	i5-6300U	vPro	Intel HD 520	8GB Soldered	14" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	8260 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell (57Wh)	65W USB-C	Win10 DG Win7 Pro 64	3-year, Depot	07/17

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ThinkPad X1 Carbon (6th Gen) Platform Specifications

Processor

7th Generation Intel® Core™ i5 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7300U	2	4	2.6 GHz	3.5 GHz	3MB	LPDDR3-1866	Intel HD Graphics 620

or 8th Generation Intel Core i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	LPDDR3-2133	Intel UHD Graphics 620
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset
Intel SoC (System on Chip) platform

Memory
8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets
* System clocks down for processors with lower memory controller

Display
One of the following, configurable by model:
- 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle
- 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle
- 14.0" (355mm) HDR WQHD (2560x1440) with Dolby Vision™, glossy, LED backlight, IPS, 500 nits,16:9 aspect ratio, 1500:1 contrast ratio, 100% gamut, 170° viewing angle

Multi-touch *(opt)*
On-cell touch, supports 10-finger gesture (FHD only)

Storage
One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

Optical
None

Ethernet
Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*)
via optional ThinkPad Ethernet Extension Cable Gen 2

WLAN + Bluetooth™
Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*
Integrated Mobile Broadband 4G LTE-A,
Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

SIM card *(opt)*
Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions
WxDxH: 12.74" x 8.55" x 0.63"; 323.5mm x 217.1mm x 15.95mm

Weight
Starting at 2.49 lb / 1.13 kg

Case color
Black or Silver (silver case is NOT available in EMEA)

Case material
Display cover: CFRP/GFRP hybrid;
Bottom: magnesium alloy / PPS hybrid

Smart card reader
None

Media reader
MicroSD card reader, supports UHS-II

Ports
Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, microSD card reader, side docking connector, security keyhole

Monitor cable *(optional)*
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*
One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support
HD Audio, Realtek® ALC3286 codec /
stereo speakers, 1W x 2, Dolby® Audio™ Premium / dual array microphone,
headphone / microphone combo jack, Dolby® Atmos™ via headphones

Keyboard
6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™
TrackPoint® pointing device and buttonless Glass 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
Touch style match on chip fingerprint reader on the palm rest, anti-spoofing technology

NFC *(optional)*
Near Field Communication

Battery
Integrated Li-ion 57Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life
MobileMark® 2014: 19.3 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter
45W or 65W USB Type-C AC adapter

Preload
Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

Model	Region	Processor	vPro	Graphics	Memory (Soldered)	Display(Size, Resolution, Type)	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Monitor Cable	Adapter	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20KH002DUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002EUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002FUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" HDR WQHD (2560x1440)IPS Glossy	None	1TB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002GUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002JUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS AG	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002LUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" HDR WQHD (2560x1440)IPS Glossy	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002MUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002NUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS AG	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002PUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002RUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002SUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002TUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002UUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002VUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002WUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002XUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH002YUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KH006XUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KH006YUS	US	i7-8550U	No	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KH0070US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Silver	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18

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Model	Region	Processor	vPro	Graphics	Memory (Soldered)	Display(Size, Resolution, Type)	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Monitor Cable	Adapter	Color	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	War-ranty	Ann Date (m/y)
20KH0071US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KH0072US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KH0073US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KH0074US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KH0075US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KH0076US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS AG	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Silver	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KH007CUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" WQHD (2560x1440) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KH007DUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KH007EUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS AG	None	512GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KH0083US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	10/18
20KH0084US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS AG	None	256GB SSD M.2 PCIe NVMe Opal2	None	8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Finger-print Reader	None	dTPM 2.0	57Wh	65W USB-C	Win10 Pro 64	3-year, Depot	10/18

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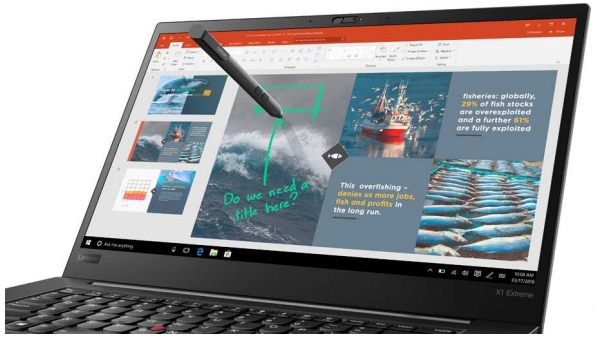

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ThinkPad X1 Extreme Platform Specifications

Processor — 8th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8300H	4	8	2.3 GHz	4.0 GHz	8MB	DDR4-2666	Intel UHD Graphics 630
i5-8400H			2.5 GHz	4.2 GHz			
i7-8750H	6	12	2.2 GHz	4.1 GHz	9MB		
i7-8850H			2.6 GHz	4.3 GHz			

Graphics — Intel UHD Graphics 630 in processor and
NVIDIA® GeForce® GTX 1050 Ti Max-Q, 4GB GDDR5 memory;
supports external digital monitor via HDMI or Thunderbolt™;
supports four independent displays;
Max resolution: 5120X2880@30Hz (Thunderbolt); 4096x2160@60Hz (HDMI)

Chipset — Mobile Intel CM246 Chipset

Memory — 64GB max / 2666MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display
Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle
Some: 15.6" (396mm) HDR 4K (3840x2160) with Dolby Vision™, anti-glare, LED backlight, IPS, 400 nits, 16:9 aspect ratio, 1200:1 contrast ratio, 100% gamut, 170° viewing angle, multi-touch, anti-reflection (AR)

Multi-touch *(opt)* — Capacitive-type multi-touch, supports 10-finger gesture (4K only)

Pen — Supports pen accessory, please see the accessory compatibility for details

Storage
Up to 2 drives (two M.2 SSD)
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

RAID *(optional)* — RAID 0/1 support

Optical — None

Ethernet — Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*))
via optional ThinkPad Ethernet Extension Cable

WLAN — Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

Bluetooth™ — Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — None

SIM card — None

Dimensions
WxDxH (non-touch): 14.24" x 9.67" x 0.72"; 361.8mm x 245.7mm x 18.4mm
WxDxH (multi-ouch): 14.24" x 9.67" x 0.74"; 361.8mm x 245.7mm x 18.7mm

Weight
Non-touch model: starting at 3.76 lb (1.7 kg);
Multi-touch model: starting at 4.06 lb (1.8 kg)

Case color — Black

Case material
Display cover: CFRP/GFRP hybrid;
Bottom: Aluminum alloy

Smart card reader — *Optional:* Smart card reader

Media reader — SD Card reader (SD, SDHC, SDXC), supports UHS-II SD card

Ports — Two USB 3.1 Gen 1 (one Always On), two USB Type-C / Thunderbolt 3, HDMI 2.0, Ethernet extension connector, headphone / microphone combo jack, optional smart card reader, 4-in-1 reader (MMC, SD, SDHC, SDXC), security keyhole

Monitor cable *(optional)*
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)* — *One of the following, configurable by model:*
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support — HD Audio, Realtek® ALC3286 codec / stereo speakers, 2W x 2, Dolby® Audio™ Premium / dual array microphone, headphone / microphone combo jack, Dolby Atmos® headphone

Keyboard — 6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™ — TrackPoint® pointing device and buttonless glass 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 — Touch style match on chip fingerprint reader on the keyboard bezel

Color calibration — None

NFC — None

Battery — Integrated Li-ion 80Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

Max battery life (*MobileMark® 2014*)
Discrete mode: 9.5 hr; *Hybrid mode:* 14.9 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter — 135W slim tip AC adapter

Preload — Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 7.0; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Chipset	Memory	Display(Size, Resolution, Type)	Multi-touch	Storage(HDD/SSD)	RAID	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Adapter	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal)	Power Adapter	OS	Warranty	Ann Date (m/y)
20MF000EUS	US	i5-8400H	vPro	GTX 1050 Ti 4GB	Intel CM246	16GBx1	15.6" HDR 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000FUS	US	i7-8750H	No	GTX 1050 Ti 4GB	Intel CM246	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000GUS	US	i7-8750H	No	GTX 1050 Ti 4GB	Intel CM246	16GBx1	15.6" HDR 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000HUS	US	i5-8400H	vPro	GTX 1050 Ti 4GB	Intel CM246	8GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000JUS	US	i7-8750H	No	GTX 1050 Ti 4GB	Intel CM246	16GBx1	15.6" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000KUS	US	i5-8400H	vPro	GTX 1050 Ti 4GB	Intel CM246	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000LUS	US	i7-8750H	No	GTX 1050 Ti 4GB	Intel CM246	16GBx1	15.6" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000MUS	US	i7-8850H	vPro	GTX 1050 Ti 4GB	Intel CM246	16GBx1	15.6" HDR 4K (3840x2160) IPS AR	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000NUS	US	i7-8850H	vPro	GTX 1050 Ti 4GB	Intel CM246	16GBx1	15.6" FHD (1920x1080) IPS	None	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000PUS	US	i7-8750H	No	GTX 1050 Ti 4GB	Intel CM246	16GBx2	15.6" HDR 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18
20MF000QUS	US	i7-8850H	vPro	GTX 1050 Ti 4GB	Intel CM246	16GBx2	15.6" HDR 4K (3840x2160) IPS AR	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	No	None	Intel 9560 ac, 2x2 + BT5.0	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	80Wh	135W Slim Tip	Win10 Pro 64	3-year, Depot	08/18

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ThinkPad X270 Platform Specifications

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6006U	2	4	2.0 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520
i3-6100U			2.3 GHz	-	3MB		
i5-6200U			2.3 GHz	2.8 GHz	3MB		
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;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2160@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

16GB max / 2400MHz DDR4, one DDR4 SO-DIMM socket
* System clocks down for processors with lower memory controller

Display

Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Multi-touch *(opt)*

On-cell touch, supports 10-finger gesture (FHD 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 is mutually exclusive with WWAN):
- Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1
- Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1
- Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1
- Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1 (US only)

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 (mutually exclusive with WiGig):
- Wireless WAN upgradable
- Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7160 (Fibocom L831-EAU) (EMEA only)

SIM card *(opt)*

Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

Dimensions

WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

Weight

Models	*No + 3-cell*	*3-cell + 3-cell*	*3 + 6-cell*
Weight	2.79 lb / 1.27 kg	2.98 lb / 1.36 kg	3.33 lb / 1.52 kg

Case color

Black

Case material

Display cover: Glass-Fiber Reinforced Plastic;
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader

Optional: Smart card reader

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.1 Gen 1 (USB 3.0, one Always On), USB 3.1 Type-C Gen 1, HDMI 1.4b, Ethernet (RJ-45), Dock connector

WiGig dock *(opt)*

ThinkPad WiGig dock, mutually exclusive with WWAN (US only)

Monitor cable *(optional)*

HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*

HD720p resolution, fixed focus

Audio support

HD Audio, Realtek ALC3268 codec / stereo speakers, 1.5W 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 palm rest

NFC *(optional)*

Near Field Communication

Internal battery

Optional: Integrated Li-Ion or Li-Polymer 3-cell *(23Wh)*

External battery

Li-Ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life (*MobileMark® 2014*)

Models	*No + 3-cell*	*3-cell + 3-cell*	*3-cell + 6-cell 48Wh*	*3-cell + 6-cell 72Wh*
Max battery life	6.52 hr	13.04 hr	20.1 hr	26.9 hr

AC adapter

45W slim tip AC adapter or 45W 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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20HN001FUS	US	i5-7200U	No	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001GUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	12.5" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001HUS	US	i7-7500U	No	Intel HD 620	16GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001JUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001KUS	US	i5-7200U	No	Intel HD 620	8GBx1	12.5" HD (1366x768) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001LUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	12.5" HD (1366x768) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001MUS	US	i7-7500U	No	Intel HD 620	16GBx1	12.5" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001NUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001PUS	US	i3-7100U	No	Intel HD 620	4GBx1	12.5" HD (1366x768) IPS	None	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001QUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN001RUS	US	i7-7500U	No	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	02/17
20HN004UUS	US	i5-7200U	No	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HN004VUS	US	i5-7200U	No	Intel HD 620	8GBx1	12.5" HD (1366x768) IPS	None	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	03/17
20HN006AUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006BUS	US	i5-7200U	No	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006CUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006DUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006EUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006FUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006GUS	US	i7-7500U	No	Intel HD 620	16GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20HN006HUS	US	i5-7200U	No	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	180GB SSD Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006JUS	US	i7-7500U	No	Intel HD 620	16GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006KUS	US	i5-7200U	No	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	500GB 7200rpm	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17
20HN006VUS	US	i7-7500U	No	Intel HD 620	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 Pro 64	3-year, Depot	08/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20K6000LUS	US	i7-6600U	vPro	Intel HD 520	16GBx1	12.5" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6000MUS	US	i5-6200U	No	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6000NUS	US	i7-6600U	vPro	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6000PUS	US	i5-6300U	vPro	Intel HD 520	8GBx1	12.5" HD (1366x768)	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6000QUS	US	i5-6300U	vPro	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6000RUS	US	i7-6500U	No	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6000SUS	US	i7-6500U	No	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6000TUS	US	i7-6600U	vPro	Intel HD 520	16GBx1	12.5" FHD (1920x1080) IPS	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	05/17
20K6000UUS	US	i5-6200U	No	Intel HD 520	8GBx1	12.5" HD (1366x768)	None	500GB 7200rpm	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6000VUS	US	i7-6500U	No	Intel HD 520	16GBx1	12.5" FHD (1920x1080) IPS	None	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	03/17
20K6001AUS	US	i5-6300U	vPro	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	180GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17
20K6001BUS	US	i7-6600U	vPro	Intel HD 520	16GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17
20K6001CUS	US	i5-6200U	No	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17
20K6001DUS	US	i5-6300U	vPro	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17
20K6001EUS	US	i7-6500U	No	Intel HD 520	16GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17
20K6001FUS	US	i5-6200U	No	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	180GB SSD Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17
20K6001GUS	US	i7-6600U	vPro	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17
20K6001HUS	US	i7-6500U	No	Intel HD 520	8GBx1	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8260 ac, 2x2 + BT4.1	WWAN Upgradable	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	3-cell(23Wh) + 3-cell(23Wh)	45W Slim Tip	Win10 DG Win7 Pro 64	3-year, Depot	08/17

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ThinkPad X280 Platform Specifications

Processor

7th Generation Intel® Core™ i3 / i5 Processor
(i3-7130U is NOT available in US and EMEA; i5-7200U is NOT available in US)

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-7130U	2	4	2.7 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		

or 8th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8130U	2	4	2.2 GHz	3.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB		
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset
Intel SoC (System on Chip) platform

Memory
4GB, 8GB, or 16GB / 2400MHz DDR4 / soldered to systemboard, no sockets
(4GB memory is NOT available in US and EMEA)
* System clocks down for processors with lower memory controller

Display
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Multi-touch *(opt)*
On-cell touch, supports 10-finger gesture (FHD only)
(FHD non-touch model is NOT available in US)

Storage
One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

Optical
None

Ethernet
Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*)
via optional ThinkPad Ethernet Extension Cable Gen 2

WLAN + Bluetooth™
Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN *(optional)*
One of the following, configurable by model:
- Integrated Mobile Broadband 4G LTE, Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)
- Integrated Mobile Broadband 4G LTE-A, Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

* For non-WWAN model, it means the model is NOT WWAN upgradable

SIM card *(opt)*
Nano-SIM card slot, in the combo slot with microSD card reader,
optional Verizon LTE (US) SIM card

Dimensions
WxDxH: 12.11" x 8.26" x 0.69-0.70"; 307.7mm x 209.8mm x 17.4-17.8mm

Weight
FHD non-touch model: 2.49 lb / 1.13 kg;
HD non-touch model: 2.78 lb / 1.26 kg;
FHD multi-touch model: 2.79 lb / 1.27 kg

Case color
Black

Case material
Display cover: Carbon Fiber (FHD non-touch model) or Glass Fiber (HD & FHD multi-touch model);
Bottom: Magnesium/Aluminum

Smart card reader
Optional: Smart card reader

Media reader
MicroSD card reader, in the combo slot with nano-SIM card

Ports
Two USB 3.1 Gen 1 (one Always On), USB 3.1 Type-C Gen 1,
USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet extension connector,
combo slot of nano-SIM card (WWAN models) and microSD card reader,
headphone / microphone combo jack, optional smart card reader,
side docking connector, security keyhole

Monitor cable *(optional)*
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*
One of the following, configurable by model:
- HD720p camera with ThinkShutter camera privacy, fixed focus
- IR camera and HD720p camera, fixed focus

Audio support
HD Audio, Realtek® ALC3287 codec /
stereo speakers, 2W x 2, Dolby® Audio™ Premium /
dual array microphone, headphone / microphone combo 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 palm rest, anti-spoofing technology

NFC *(optional)*
Near Field Communication

Battery
Integrated Li-ion 48Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life
MobileMark® 2014: 16.6 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter
45W or 65W USB Type-C AC adapter

Preload
Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

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

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Adapter	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20KF001TUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	12.5" HD (1366x768)	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	None	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF001YUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	12.5" HD (1366x768)	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF0020US	US	i7-8550U	No	Intel UHD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF0021US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	IR &720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF0022US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF0024US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	12.5" HD (1366x768)	None	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF0025US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF0029US	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	12.5" HD (1366x768)	None	128GB SSD M.2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Non-backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF002QUS	US	i7-8550U	No	Intel UHD 620	16GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF002RUS	US	i7-8550U	No	Intel UHD 620	16GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF002SUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF002TUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20KF005EUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KF005FUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KF005GUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KF005HUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KF005JUS	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KF005KUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KF005LUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20KF005QUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	12.5" HD (1366x768)	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Non-backlit	None	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Monitor Cable	Adapter	Camera	Key-board	Finger-print Reader	NFC	TPM	Battery (internal+ external)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20KF005RUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	12.5" HD (1366x768)	None	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KF005SUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	05/18
20KF005WUS	US	i5-7200U	No	Intel HD 620	8GB Soldered	12.5" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	720p	Backlit	Finger-print Reader	None	dTPM 2.0	48Wh	65W USB-C	Win10 Pro 64	3-year, Depot	08/18

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Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

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Carry-in or Mail-in Service: Parts and labor repair coverage where the customer is responsible for shipping (including packaging) or delivery to authorized warranty provider or repair center.
Depot or Courier Service: Parts and labor repair coverage where shipping (including packaging) or delivery to the repair center is paid for by Lenovo.
Expedited Depot: Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.
Onsite / In-home Service: Parts and labor repair coverage where labor is provided onsite at your place of business.
If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.
International Warranty Service (IWS): PC repair coverage for customers who require a critical warranty repair while travelling internationally. Visit www.lenovo.com/internationalwarranty for details.
Visit www.lenovo.com/warranty for Lenovo Warranty Services terms and conditions for complete details and restrictions.

Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

Battery life: Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

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Lenovo ThinkPad Tablets Convertibles

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Summary of Changes

This section describes the technical changes made in this edition.
This edition might also include minor corrections and editorial changes which are not identified.

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Additions in this update

►**New product(s)**
ThinkPad L390 Yoga

►**New model(s)**
None

►**Others**
None

Changes in this update

►None

Withdrawals in this update

►**Withdrawn product(s)**
None

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ThinkPad X1 Tablet (2nd Gen) Platform Specifications

Processor — 7th Generation Intel® Core™ m / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
m3-7Y30	2	4	1.0 GHz	2.6 GHz	4MB	LPDDR3-1866	Intel HD Graphics 615
i5-7Y54			1.2 GHz	3.2 GHz	4MB		
i5-7Y57			1.2 GHz	3.3 GHz	4MB		
i7-7Y75			1.3 GHz	3.6 GHz	4MB		

Graphics	Intel HD Graphics 615 in processor, supports 1080p video out via Mini DisplayPort connector
Chipset	Intel SoC (System on Chip) platform
Memory	4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets
Display	12.0" (304.8mm) FHD+ (2160x1440), glossy, LED backlight, IPS, anti-figerprint display with Corning® Gorilla® Glass, WideView (170° viewing), 360 nits, 3:2 aspect ratio, 800:1 contrast ratio
Multi-touch	Capacitive touch panel, supports ten-finger gesture
Pen	*Optional:* ThinkPad Pen Pro, active pen for multi-touch display
Kick stand	Opening angle up to 90 degrees
Storage	*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)
Optical	None
Storage extension	One microSD card slot, supports up to 32GB microSDHC or 64GB microSDXC
Ethernet	None
WLAN Bluetooth™	Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1, soldered M.2 chip Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo chip ** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*
WiGig	Intel Wireless Gigabit 11000, WiGig 802.11ad, soldered M.2 chip
WWAN *(optional)*	Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)
SIM card *(opt)*	Nano-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card
Dimensions	*Tablet only:* 11.48" x 8.25" x 0.34"; 291.5mm x 209.5mm x 8.45mm *Tablet + keyboard:* 11.48" x 8.25" x 0.56"; 291.5mm x 209.5mm x 14.15mm
Weight	*Tablet only:* starting at 1.69 lb (0.77kg) *Tablet+keyboard:* starting at 2.35 lb (1.07kg)
Case color	Black
Case material	Mg + PCGF Hybrid
Smart card reader	None
Media reader	One microSD card slot (microSD, microSDHC, microSDXC)
Ports	One USB 3.1 Gen 1 / USB 3.0, one Mini DisplayPort, one USB 3.1 Type-C Gen 1 / Power Delivery 2.0, one Pogo keyboard connector, one cartrige connector for optional modules, one nano-SIM card slot
Control buttons	Power button, volume control button, reset switch
WiGig dock	*Optional:* ThinkPad WiGig dock
Monitor cable *(optional)*	*MiniDP to HDMI:* Lenovo Mini DisplayPort to HDMI Monitor Cable *MiniDP to VGA:* Lenovo Mini DisplayPort to VGA Monitor Cable
Adapter *(optional)*	*USB to RJ45:* ThinkPad USB 3.0 Ethernet Adapter *USB-C to VGA:* Lenovo USB C to VGA Plus Power Adapter *USB-C to HDMI:* Lenovo USB-C to HDMI Plus Power Adapter

Camera	*Front camera:* 2.0-megapixel, fixed focus *Rear camera:* 8.0-megapixel, auto focus, flash LED
Video capture	1080p video capture
Audio support	Realtek® ALC3268 codec / stereo speakers, 0.5W x 2 / three microphones, combo audio/microphone jack
Pogo keyboard	Magnetic attached thin keyboard, with TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch, backlit
Keyboard color	Black, red, or silver
Security	Kensington lock slot
Security chip	Discrete TPM 2.0 TCG Certified
vPro *(optional)*	Intel vPro Technology
Fingerprint reader	*Optional:* Touch style Fingerprint reader
NFC	None
Module	*One of the following, configurable by model:* • Productivity module, USB3.0 x 1, HDMI, OneLink+, 5 hrs battery (24Wh) • Presenter module, Pico projector, HDMI and 10Whr battery for presenter
Battery	Li-Polymer 2-cell *(37Wh)* battery
Max battery life	*MobileMark® 2014:* 10 hr (local video playback)
AC adapter	45W or 65W USB Type-C AC adapter
Light sensor	Ambient Light Sensor
G-sensor	3D accelerometer
Compass	3D compass
Gyroscope	3D gyrometer
GPS	GPS function is integrated into WWAN module
Preload	*Some:* Windows 10 Pro 64 *Some:* Windows 10 Home 64 • Lenovo Connect • 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, GREENGUARD, Low Halogen, RoHS

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Dock	Monitor Cable	Camera (Front / Rear)	Keyboard Docking	Pen	Fingerprint Reader	Module	Power Adapter	Operating System	Warranty	Global	Ann Date (mm/yy)
20JB0027US	US	i5-7Y57	vPro	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB0029US	US	i7-7Y75	vPro	Intel HD 615	16GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB002BUS	US	i7-7Y75	vPro	Intel HD 615	16GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB002CUS	US	i5-7Y54	No	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	1-year, Depot	No	03/17
20JB002DUS	US	i5-7Y54	No	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	1-year, Depot	No	03/17
20JB002EUS	US	i7-7Y75	vPro	Intel HD 615	16GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB002FUS	US	i5-7Y57	vPro	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB002JUS	US	i5-7Y57	vPro	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB002KUS	US	i7-7Y75	vPro	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB002LUS	US	i7-7Y75	vPro	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB002MUS	US	i7-7Y75	vPro	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB002NUS	US	i7-7Y75	vPro	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	1-year, Depot	No	03/17
20JB0035US	US	i7-7Y75	vPro	Intel HD 615	8GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	3-year, Depot	No	03/17
20JB003RUS	US	i7-7Y75	vPro	Intel HD 615	16GB Soldered	12" FHD+ (2160x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	45W	Win10 Pro 64	1-year, Depot	No	05/17

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ThinkPad X1 Tablet (3rd Gen) Platform Specifications

Processor — 8th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	LPDDR3-2133	Intel UHD Graphics 620
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics — Intel UHD Graphics 620 in processor, supports external digital monitor via USB Type-C

Chipset — Intel SoC (System on Chip) platform

Memory — 8GB, or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets

Display — 13.0" (330mm) QHD+ (3000x2000), glossy, LED backlight, IPS, anti-figerprint display with Corning® Gorilla® Glass, WideView (160° viewing), 400 nits, 3:2 aspect ratio, 1200:1 contrast ratio

Multi-touch — Capacitive touch panel, supports ten-finger gesture

Pen — *Optional:* Lenovo Pen Pro or Lenovo Active Pen (ThinkPad Pen Pro) for multi-touch display

Kick stand — Opening angle up to 170 degrees

Storage — *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)

Optical — None

Storage extension — One MicroSD card reader, in the combo slot with nano-SIM card, support USH-I, microSDHC, microSDXC

Ethernet — None

WLAN — Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

Bluetooth™ — Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)* — Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

SIM card *(opt)* — Nano-SIM card slot, in the combo slot with microSD card reader

Dimensions
Tablet only: 11.97" x 8.9" x 0.35"; 304.1mm x 226mm x 8.9mm
Tablet + keyboard: 11.97" x 8.9" x 0.57"; 304.1mm x 226mm x 14.4mm

Weight
Tablet only: starting at 1.96 lb (0.89kg)
Tablet+keyboard: starting at 2.8 lb (1.27kg)

Case color — Black

Case material — Magnesium/Aluminum

Smart card reader — None

Ports — Two USB 3.1 Type-C Gen 1 / Thunderbolt 3 / Power Delivery 3.0, one Pogo keyboard connector, one Pen holder slot, headphone / microphone combo jack, combo slot of nano-SIM card (WWAN models) and microSD card reader

Control buttons — Power button, volume control button, reset switch

Dock — *Optional:* Hybrid dock

Monitor cable *(opt)* — None

Adapter *(optional)* — *USB-C to RJ45:* Lenovo USB-C to Ethernet Adapter
USB-C to VGA: Lenovo USB C to VGA Plus Power Adapter
USB-C to HDMI: Lenovo USB-C to HDMI Plus Power Adapter

Camera — *Front camera:* 2.0-megapixel, fixed focus
Rear camera: 8.0-megapixel, auto focus

IR Camera — *Optional:* IR camera, fixed focus (Not available with NFC)

Audio support — Realtek® ALC3278 codec / stereo speakers, 1W x 2 / two microphones, combo audio/microphone jack

Pogo keyboard — Magnetic attached thin keyboard, with TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch, backlit

Keyboard color — Black

Security — Kensington lock slot

Security chip — Discrete TPM 2.0 TCG Certified

vPro *(optional)* — Intel vPro Technology

Fingerprint reader — *Optional:* Touch style Fingerprint reader

NFC *(optional)* — Near Field Communication (Not available with the IR camera)

Battery — Integrated Li-Ion 42Wh battery

Max battery life — *MobileMark® 2014:* 9.5 hr

AC adapter — 45W or 65W USB Type-C AC adapter

Light sensor — Ambient Light Sensor

G-sensor — 3D accelerometer

Compass — 3D compass

Gyroscope — 3D gyrometer

GPS — GPS function is integrated into WWAN module

Preload — *Some:* Windows 10 Pro 64
Some: Windows 10 Home 64

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, GREENGUARD, Low Halogen, RoHS

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Dock	Camera (Front / Rear)	Keyboard Docking	Pen	Fingerprint Reader	Module	Power Adapter	Operating System	Warranty	Global	Ann Date (mm/yy)
20KJ0017US	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ0018US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ0019US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ001AUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ001BUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ001CUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	2.0MP / 8.0MP + IR	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ001DUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	2.0MP / 8.0MP + IR	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ001EUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	None	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ001FUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	03/18
20KJ001QUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13" QHD+ (3000x2000) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	2.0MP / 8.0MP	Black Pogo Keyboard	Pen Pro	Fingerprint Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	No	05/18

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ThinkPad L380 Yoga Platform Specifications

Processor

Intel® Celeron® Processor, 7th Generation Intel Core™ i3 / i5 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	DDR4-2133	Intel HD Graphics 620

or 8th Generation Intel Core i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	DDR4-2400	Intel UHD Graphics 620
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		

Graphics
Intel HD Graphics 620 or Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (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
13.3" (338mm) FHD (1920x1080), glossy, LED backlight, IPS,
300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

Multi-touch *(opt)*
Capacitive-type multi-touch, AR (anti-reflection), supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convert-mode
Laptop, tent, stand, yoga and tablet

Pen
ThinkPad Pen Pro, active pen for multi-touch display, on-board garage

Storage
One of the following, configurable by model:
- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

Optical
None

Ethernet
Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*))
via optional ThinkPad Ethernet Extension Cable

WLAN + Bluetooth™
Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Wireless card supports BT4.2 but is limited to BT4.1 by Windows OS*

WWAN
None

SIM card
None

Dimensions
WxDxH: 12.67" x 8.82" x 0.74"; 322mm x 224.2mm x 18.8mm

Weight
Starting at 3.44 lb / 1.56 kg

Case color
Black or Silver

Case material
Display cover: Aluminum
Bottom: GFRP

Smart card reader
None

Media reader
MicroSD card reader

Ports
Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 1,
HDMI 1.4b, Ethernet extension connector, headphone / microphone combo jack,
microSD card reader, security keyhole

Monitor cable
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera
720p: HD720p resolution, low light sensitive, fixed focus
IR & 720p: IR camera and HD720p camera, fixed focus
World facing: 5MP resolution, auto focus

Audio support
HD Audio, Realtek ALC3287 codec, Dolby® Advance / stereo speakers, 2W x 2 / dual array microphone, headphone / microphone combo jack

Keyboard
6-row, multimedia Fn keys, optional LED backlight

UltraNav™
TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

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 fingerprint reader on the keyboard bezel, anti-spoofing technology

NFC *(optional)*
Near Field Communication (mutually exclusive with smart card reader)

Battery
Integrated Li-Ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life
MobileMark® 2014: 12.85 hr
* Battery life varies significantly with settings, usage, & other factors

AC adapter
45W or 65W USB Type-C AC adapter

Preload
Windows® 10 Home 64 or Windows 10 Pro 64

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; ENERGY STAR® 6.1; RoHS-compliant

Lenovo
February 2018

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Color	Camera (Front/WorldFacing)	Keyboard	Pen	Fingerprint Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20M7000FUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	IR &720p	Backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M7000GUS	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	720p + World Facing 5.0MP	Non-backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M7000HUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Silver	720p	Backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M7000JUS	US	i7-8550U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	720p	Backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M7000KUS	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Silver	720p	Non-backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M7000LUS	US	i5-8350U	vPro	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	720p	Backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M7000MUS	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	720p	Non-backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M7000PUS	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Silver	720p + World Facing 5.0MP	Backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	02/18
20M7002MUS	US	i3-8130U	No	Intel UHD 620	4GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Silver	720p	Non-backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	04/18
20M7002NUS	US	i3-8130U	No	Intel UHD 620	4GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	720p	Non-backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	04/18
20M7002PUS	US	i3-8130U	No	Intel UHD 620	4GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	720p + World Facing 5.0MP	Non-backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	04/18
20M70032US	US	i3-8130U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	720p	Non-backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	05/18
20M70033US	US	i3-8130U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Silver	720p	Non-backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	05/18
20M70034US	US	i5-8250U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	180GB SSD M.2 Opal2	None	Intel 8265 ac, 2x2 + BT4.1	Black	720p	Backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	05/18

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ThinkPad L390 Yoga Platform Specifications

Product Specifications Reference (PSREF)

Processor

8th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-8145U	2	4	2.1 GHz	3.9 GHz	4MB	DDR4-2400	Intel UHD Graphics 620
i5-8265U	4	8	1.6 GHz	3.9 GHz	6MB		
i7-8565U	4	8	1.8 GHz	4.6 GHz	8MB		

Graphics

Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

32GB max / 2400MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets

Display

13.3" (338mm) FHD (1920x1080), anti-glare, LED backlight, IPS,
300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 72% gamut, 170° viewing angle

Multi-touch *(opt)*

Capacitive-type multi-touch, AR (anti-reflection), supports 10-finger gesture

Hinge

Yoga hinge, 360 degree

Multi-mode

Notebook, stand, tent, tablet

Pen *(optional)*

ThinkPad Pen Pro, active pen for multi-touch display, on-board garage

Storage

One of the following, configurable by model:

- M.2 SSD / SATA 6.0Gb/s
- M.2 (2242) SSD / PCIe NVMe, PCIe 3.0 x 2
- M.2 (2280) SSD / PCIe NVMe, PCIe 3.0 x 4

Optical

None

Storage

One of the following, configurable by model:

- M.2 SSD / SATA 6.0Gb/s (e.g. xxxGB SSD M.2)
- M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s (e.g. xxxGB SSD M.2 PCIe NVMe)

Optical

None

Ethernet

Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*)
via optional ThinkPad Ethernet Extension Cable or
Lenovo USB-C to Ethernet Adapter

WLAN
Bluetooth™

Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
Bluetooth 5.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

Dimensions

WxDxH: 12.67" x 8.82" x 0.74"; 321.8mm x 224.2mm x 18.8mm

Weight

Starting at 3.44 lbs / 1.56 kg

Case color

Black or Silver

Case material

Display cover: Magnesium / Aluminum
Bottom: GFRP

Smart card reader

None

Media reader

MicroSD card reader

Ports

Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 1,
HDMI 1.4b, Ethernet extension connector, headphone / microphone combo jack,
microSD card reader, security keyhole

Monitor cable *(optional)*

USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to VGA + Power Adapter: Lenovo USB-C to VGA plus Power Adapter
USB-C to HDMI: Lenovo USB-C to HDMI Adapter
USB-C to HDMI + Power Adapter: Lenovo USB-C to HDMI plus Power Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Adapter cable *(optional)*

USB-C to RJ45: Lenovo USB-C to Ethernet Adapter
USB-C to USB-A: Lenovo USB-C to USB-A Adapter
USB-C to USB-C: Lenovo USB-C to USB-C Cable 2M

Camera

720p: HD720p resolution, low light sensitive, fixed focus
IR & 720p: IR camera and HD720p camera, fixed focus (black model only)
World facing: 5MP resolution, auto focus
(mutually exclusive with fingerprint reader)

Audio support

HD Audio, Realtek ALC3287 codec, Dolby® Audio™ Premium / stereo speakers,
2W x 2 / dual array microphone, headphone / microphone combo jack

Keyboard
UltraNav™

6-row, spill-resistant, multimedia Fn keys, optional LED backlight
TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Discrete TPM 2.0, TCG Certified

vPro

None

Fingerprint reader

Optional: Touch style fingerprint reader on the palm rest
(mutually exclusive with World facing camera)

NFC *(optional)*

Near Field Communication

Battery

Integrated Li-Ion 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)
with 65W USB Type-C AC adapter

Max battery life

MobileMark® 2014: 12.17 hrs
* Battery life varies significantly with settings, usage, & other factors

AC adapter

45W or 65W USB Type-C AC adapter

Preload

Windows® 10 Home 64 or Windows 10 Pro 64

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

ENERGY STAR® 7.0; RoHS-compliant

Model	Region	Country	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Bundled Accessories	Color	Camera (Front/World Facing)	Keyboard	Pen	Fingerprint Reader	NFC	TPM	Battery (internal)	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20NT0004US	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	Silver	720p	Backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NT0005US	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	Silver	720p	Non-backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NT0006US	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	Black	720p	Backlit	ThinkPad Pen Pro	Fingerprint Reader	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NT0007US	NA	US	i3-8145U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	1-year, Depot	12/18
20NT0008US	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	Black	720p	Non-backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NT0009US	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	Black	720p + World Facing 5.0MP	Backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18
20NT000AUS	NA	US	i5-8265U	No	Intel UHD 620	8GBx1	13.3" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 (2280) PCIe NVMe Opal2	None	Intel 9560 ac, 2x2 + BT5.0	None	Silver	720p + World Facing 5.0MP	Backlit	ThinkPad Pen Pro	None	None	dTPM 2.0	45Wh	65W USB-C	Windows 10 Pro 64	3-year, Depot	12/18

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ThinkPad X1 Yoga (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor 7th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-7200U	2	4	2.5 GHz	3.1 GHz	3MB	LPDDR3-1866	Intel HD Graphics 620
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 620 in processor only,
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 8GB or 16GB max / 1866MHz LPDDR3 / soldered to systemboard, no sockets

Display
Some: 14.0" (355mm) FHD (1920x1080), glossy, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
Some: 14.0" (355mm) Narrow Bezel FHD (1920x1080), glossy, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
Some: 14.0" (355mm) WQHD (2560x1440), glossy, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
Some: 14.0" (355mm) WQHD (2560x1440), glossy, OLED, 300 nits, 16:9 aspect ratio, 54000:1 contrast ratio, 100% gamut, 176° viewing angle

Multi-touch LED panel: Capacitive-type multi-touch, AR (anti-refl ection), AS (anti-smudge), supports 10-fi nger gesture
OLED panel: OCTA, AS (anti-smudge), supports 10-finger gesture

Hinge Yoga hinge, 360 degree

Convert-mode Laptop, tent, stand, and tablet

Pen *(optional)* ThinkPad Pen Pro, active pen for multi-touch display

Storage
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)

Optical None

Ethernet Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*))
via optional ThinkPad Ethernet Extension Cable

WLAN *One of the following, confi gurable by model (WiGig is mutually exclusive with WWAN):*
- 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

WiGig adapter is only available in selected countries

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)* Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)

SIM card Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

Dimensions
LED model: 13.11" x 9.02" x 0.67" (*WxDxH)*; 333mm x 229mm x 17.05mm
OLED model: 13.11" x 9.02" x 0.69" (*WxDxH)*; 333mm x 229mm x 17.4mm

Weight Starting at 2.99 lb (1.36kg) for OLED model; 3.13 lb (1.42kg) for other model

Case color Black or silver

Case materal Display cover: Carbon-Fiber Hybrid;
Bottom: magnesium-PPS hybrid

Smart card reader None

Media reader Micro SD, supports UHS-II SD card

Ports Three USB 3.1 Gen 1 (USB 3.0, one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3 (support data, video, and power delivery), HDMI 1.4b, Ethernet extension connector, combo audio / microphone jack

WiGig dock *(opt)* ThinkPad WiGig dock

Monitor Cable *(optional)*
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)* *720p:* HD720p resolution, fixed focus
IR & 720p: IR camera and HD720p camera (Narrow Bezel FHD panels only)

Audio support HD Audio, Conexant® CX11771 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard 6-row wave keyboard (rise & fall), spill-resistant, multimedia Fn keys, LED backlit

UltraNav™ TrackPoint® pointing device and 3+2 buttons multi-touch clickpad

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 Touch style match on chip fi ngerprint reader on the palm rest

NFC *(optional)* Near Field Communication

Battery type Li-Polymer 4-cell (56Wh)

Battery life MobileMark® 2014: 15.5 hr

AC adapter 45W or 65W USB Type-C AC adapter

RapidCharge

AC adapter	45W USB-C	65W USB-C
Charge to 80%	Not support	1.0 hr
Charge to 100%	Not support	2.8 hr

Light sensor Ambient Light Sensor

G-sensor 3D accelerometer and 3D magnetometer

Compass 3D compass

Gyroscope 3D gyrometer

Preload
Some: Windows 10 Pro 64
Some: Windows 10 Home 64
- Lenovo Companion
- Lenovo Settings
- 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; ENERGY STAR®; RoHS-compliant

Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Dock	Monitor Cable	Adapter	Color	Camera	Keyboard	Pen	Finger-print Reader	NFC	Power Adapter	Operating System	Warranty	Global	Ann Date (m/y)
20JD000PUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000QUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000RUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS Gloss	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000SUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000TUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000UUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000VUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000WUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) OLED Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000XUS	US	i5-7200U	No	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD000YUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS Gloss	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD0015US	US	i5-7200U	No	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JD0022US	US	i5-7200U	No	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	180GB SSD M.2 Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	05/17
20JD004UUS	US	i7-7500U	No	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	05/17
20JD004VUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	180GB SSD M.2 Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	05/17
20JD0060US	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	10/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Multi-touch	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Dock	Monitor Cable	Adapter	Color	Camera	Keyboard	Pen	Finger-print Reader	NFC	Power Adapter	Operating System	Warranty	Global	Ann Date (m/y)
20JF000BUS	US	i5-7200U	No	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000CUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS Gloss	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000DUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000EUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000FUS	US	i5-7300U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000GUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS Gloss	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000HUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) OLED Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000JUS	US	i7-7600U	vPro	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000KUS	US	i5-7200U	No	Intel HD 620	8GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000LUS	US	i5-7300U	vPro	Intel HD 620	8GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF000MUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" WQHD (2560x1440) IPS Gloss	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Sierra EM7455	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	04/17
20JF002KUS	US	i7-7600U	vPro	Intel HD 620	16GB Soldered	14" FHD (1920x1080) IPS NB	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W	Win10 Pro 64	3-year, Depot	No	10/17

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ThinkPad X1 Yoga (3rd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor

8th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	LPDDR3-2133	Intel UHD Graphics 620
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics
Intel UHD Graphics 620 in processor;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 5120x2880@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset
Intel SoC (System on Chip) platform

Memory
8GB or 16GB / 2133MHz LPDDR3 / soldered to systemboard, no sockets

Display
Some: 14.0" (355mm) FHD (1920x1080), LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
Some: 14.0" (355mm) WQHD (2560x1440), LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle, IPS
Some: 14.0" (355mm) HDR WQHD (2560x1440) with Dolby Vision™, LED backlight, 500 nits, 16:9 aspect ratio, 1500:1 contrast ratio, 100% gamut, 170° viewing angle, IPS

Multi-touch
Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convert-mode
Laptop, tent, stand, and tablet

Pen *(optional)*
ThinkPad Pen Pro, active pen for multi-touch display, on-board rechargeable

Storage
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)

Optical
None

Ethernet
Native Intel Ethernet Connection WGI219-LM (*vPro*)
via optional ThinkPad Ethernet Extension Cable

WLAN
Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

Bluetooth™
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Integrated Mobile Broadband 4G LTE-A,
Intel XMM™ 7360 (Fibocom L850-GL), M.2 card

SIM card *(opt)*
Nano-SIM card slot, optional Verizon LTE (US) SIM card

Dimensions
WxDxH: 13.11" x 9.02" x 0.67"; 333mm x 229mm x 17.05mm

Weight
Starting at 3.08 lb (1.4kg)

Case color
Black or silver

Case material
Display cover: Carbon-Fiber and Glass-Fiber hybrid;
Bottom: magnesium-PPS hybrid

Smart card reader
None

Media reader
MicroSD card reader, supports UHS-II

Ports
Two USB 3.1 Gen 1 (one Always On), two USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4, Ethernet extension connector, nano-SIM card slot (WWAN models), headphone / microphone combo jack, microSD card reader

WiGig dock
None

Monitor cable *(optional)*
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*
One of the following, configurable by model:
720p: HD720p camera with ThinkShutter camera privacy, fixed focus
IR & 720p: IR camera and HD720p camera, fixed focus
** WWAN models and HDR panel models can not support IR camera*

Audio support
HD Audio, Realtek® ALC3286 codec, Dolby® Audio™ Premium / stereo speakers, 1W x 2 / dual array microphone, headphone / microphone combo jack, Dolby® Atmos™ via headphones

Keyboard
6-row wave keyboard (rise & fall), spill-resistant, multimedia Fn keys, LED backlit

UltraNav™
TrackPoint® pointing device and 3+2 buttons multi-touch clickpad

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
Touch style match on chip fingerprint reader on the palm rest

NFC *(optional)*
Near Field Communication

Battery
Integrated Li-Ion 54Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life
MobileMark® 2014: 15.4 hr

AC adapter
45W or 65W USB Type-C AC adapter

Light sensor
Ambient Light Sensor

G-sensor
3D accelerometer and 3D magnetometer

Compass
None

Gyroscope
3D gyrometer

Preload
Windows 10 Pro 64

Limited warranty
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

Lenovo
February 2018

Model	Region	Processor	vPro	Graphics	Memory	Display(Size, Resolution, Type)	Multi-touch	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	Dock	Monitor Cable	Adapter	Color	Camera	Keyboard	Pen	Finger-print Reader	NFC	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20LD001CUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" HDR WQHD (2560x1440)IPS	10-point Multi-touch	1TB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LD001DUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LD001EUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LD001FUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" HDR WQHD (2560x1440)IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LD001GUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LD001HUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	IR &720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LD001JUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LD001KUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LD002NUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LD002PUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LD002QUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LD002RUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LD002SUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LD002TUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LD003NUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	IR &720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	10/18
20LD003PUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Black	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	10/18

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Model	Region	Processor	vPro	Graphics	Memory	Display(Size, Resolution, Type)	Multi-touch	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	Dock	Monitor Cable	Adapter	Color	Camera	Keyboard	Pen	Finger-print Reader	NFC	Power Adapter	Operating System	Warranty	Ann Date (m/y)
20LF000JUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LF000KUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	IR &720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LF000LUS	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LF000MUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LF000NUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LF000PUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	02/18
20LF000VUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LF000WUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	14" WQHD (2560x1440) IPS	10-point Multi-touch	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LF000XUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18
20LF000YUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	14" FHD (1920x1080) IPS	10-point Multi-touch	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	Silver	720p	Backlit	Pen Pro	Finger-print Reader	None	65W USB-C	Win10 Pro 64	3-year, Depot	04/18

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ThinkPad X380 Yoga Platform Specifications

Processor

8th Generation Intel® Core™ i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i5-8250U	4	8	1.6 GHz	3.4 GHz	6MB	DDR4-2400	Intel UHD Graphics 620
i5-8350U			1.7 GHz	3.6 GHz	6MB		
i7-8550U			1.8 GHz	4.0 GHz	8MB		
i7-8650U			1.9 GHz	4.2 GHz	8MB		

Graphics
Intel UHD Graphics 620 in processor only;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2304@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset
Intel SoC (System on Chip) platform

Memory
8GB or 16GB / 2400MHz DDR4 / soldered to systemboard, no sockets
* System clocks down for processors with lower memory controller

Display
13.3" (337.8mm) FHD (1920x1080), glossy, LED backlight, IPS
300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

Multi-touch
Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convert-mode
Laptop, tent, stand, yoga and tablet

Pen
ThinkPad Pen Pro, active pen for multi-touch display, on-board rechargeable

Storage
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)

Optical
None

Ethernet
Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*) via optional ThinkPad Ethernet Extension Cable

WLAN
Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + Bluetooth 4.1, M.2 card
** Intel 8265ac card supports BT4.2 but is limited to BT4.1 by Windows OS*

Bluetooth™
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN *(optional)*
Integrated Mobile Broadband 4G LTE,
Intel XMM™ 7262 (Fibocom L830-EB), M.2 card (EMEA only)

SIM card *(opt)*
Nano-SIM card slot

Dimensions
WxDxH: 12.34" x 8.75" x 0.72"; 313.5mm x 222.2mm x 18.2mm

Weight
Starting at 3.17 lb (1.43kg)

Case color
Black or silver

Case Material
Carbon-Fiber Hybrid

Smart card reader
Optional: Smart card reader (mutually exclusive with NFC)

Media reader
One microSD card slot (microSD, microSDHC, microSDXC), UHS-I

Ports
Two USB 3.1 Gen 1 (one Always On), Ethernet extension connector, one USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, microSD card reader, nano-SIM card slot (WWAN models), headphone / microphone combo jack

WiGig dock
None

Monitor cable *(optional)*
USB-C to VGA: Lenovo USB-C to VGA Plus Power Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

Camera
One of the following, configurable by model:
720p: HD720p camera, fixed focus
IR & 720p: IR camera and HD720p camera, fixed focus

Audio support
HD Audio, Conexant® CX11771 codec / stereo speakers, 2W x 2 / dual array microphone, headphone / microphone combo jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™
TrackPoint® pointing device and 3+2 buttons Mylar surface multi-touch click pad

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
Touch style match on chip fingerprint reader on the palm rest

NFC *(optional)*
Near Field Communication (mutually exclusive with smart card reader)

Battery
Li-Ion 51Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W USB Type-C AC adapter

Max battery life
MobileMark® 2014: 13.6 hr

AC adapter
45W or 65W slim tip AC adapter , 45W or 65W USB Type-C AC adapter

Light sensor
Ambient Light Sensor

G-sensor/ eCompass
3D accelerometer and 3D magnetometer
3D compass

Gyroscope
3D gyrometer

Preload
Some: Windows 10 Home 64
Some: Windows 10 Pro 64

Limited warranty
One of the following, configurable by model:
- 1-year depot repair service
- 3-year/1-yr battery depot repair service

Mil-Spec test
MIL-STD-810G military certification

Environment
EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

Model	Region	Processor	vPro	Graphics	Memory	Display	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Adapter	Color	Pen	Fingerprint Reader	NFC	Power Adapter	Operating System	Warranty	End of Support	Ann Date (mm/yy)
20LH000VUS	US	i7-8550U	No	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH000WUS	US	i7-8550U	No	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH000XUS	US	i7-8550U	No	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH000YUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0010US	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0011US	US	i7-8550U	No	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0012US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0013US	US	i5-8250U	No	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0014US	US	i5-8250U	No	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	128GB SSD M.2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0015US	US	i5-8250U	No	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0016US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0017US	US	i7-8550U	No	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH0018US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Feb 6, 2023	02/18
20LH001QUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	May 17, 2024	04/18
20LH001RUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	May 17, 2024	04/18
20LH001SUS	US	i5-8250U	No	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	May 17, 2024	04/18
20LH0023US	US	i5-8250U	No	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	180GB SSD M.2 Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Jun 1, 2024	05/18
20LH0026US	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Jul 12, 2024	06/18
20LH0027US	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Jul 12, 2024	06/18
20LH0028US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	1TB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Jul 12, 2024	06/18

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Model	Region	Processor	vPro	Graphics	Memory	Display	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Adapter	Color	Pen	Fingerprint Reader	NFC	Power Adapter	Operating System	Warranty	End of Support	Ann Date (mm/yy)
20LH0029US	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	180GB SSD M.2 Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Jul 12, 2024	06/18
20LH002JUS	US	i5-8350U	vPro	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Oct 14, 2024	09/18
20LH002KUS	US	i7-8650U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Oct 14, 2024	09/18
20LH002LUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Oct 14, 2024	09/18
20LH002MUS	US	i5-8350U	vPro	Intel UHD 620	16GB Soldered	13.3" FHD (1920x1080) IPS	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Oct 14, 2024	09/18
20LH002NUS	US	i7-8650U	vPro	Intel UHD 620	8GB Soldered	13.3" FHD (1920x1080) IPS	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	Fibocom L850-GL	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	65W Slim Tip	Win10 Pro 64	3-year, Depot	Oct 14, 2024	09/18

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ThinkPad Yoga 11e (3rd Gen) Platform Specifications

Processor

Intel® Celeron® processor, Intel Pentium® Processor, or 6th Generation Intel Core™ i3 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	DDR3L-1600	Intel HD graphics
Cel N3160	4	4	1.6 GHz	2.24 GHz	2MB		Intel HD graphics
Pen 4405U	2	4	2.1 GHz	-	2MB		Intel HD graphics 510
i3-6100U			2.3 GHz	-	3MB		Intel HD graphics 520

Graphics

Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI)@30Hz

Chipset

Intel SoC (System on Chip) platform

Memory

2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket

Display

11.6" (295mm) HD (1366x768), glare, LED backlight, IPS 250 nits, 16:9 aspect ratio, 800:1 contrast ratio

MultiTouch

Yes, support 10 fingers

Hinge

Yoga hinge, 360 degree

Convertible mode

Laptop, tent, stand and tablet

Pen

Some: Active pen, batteries required

Storage

M.2 Solid State Drive (SSD), SATA 6.0Gb/s

Optical

None

Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

WLAN[4]

One of the following, configurable by model:

- 11ac+BT, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

Dimensions[3]

WxDxH: 11.81" x 8.27" x 0.90"; 300mm x 210mm x 22.9mm

Weight[2]

from 3.5 lb (1.59kg)

Case color

Display cover: Graphite Black or Silver; *Bottom:* Graphite Black

Case material

Display cover: PC+40%GF+TPU; *Bottom:* PCC

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0, HDMI, Ethernet (RJ-45)

Control buttons

Power button, volume control button

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack

Keyboard

ThinkPad Windows keyboard, 6-row, multimedia Fn keys

UltraNav™

Buttonless touchpad below keyboard, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro

None

Fingerprint reader

None

Battery

Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life[10]

MobileMark® 2014: 11.53 hr

AC adapter

45-watt AC adapter

Preload

Some: Windows 10 Home 64
Some: Windows 10 Pro 64

- Lenovo Solution Center
- Lenovo Companion
- Lenovo Setting
- Microsoft Office preloaded; purchase a product key to activate
- McAfee® LiveSafe™ (30-day trial)

Limited warranty[12]

One of the following, configurable by model:

- 1-year depot repair service
- 3-year/1-yr battery depot repair service (US only)

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN + Bluetooth	Color	Camera	Pen	Finger-print Reader	Battery	Power Adapter	Operating System	Warranty	Global	Ann Date (m/y)
20GA000KUS	US	Celeron N3150	Intel HD	4GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	128GB SSD	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/16
20GA000LUS	US	Celeron N3150	Intel HD	8GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	128GB SSD	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/16
20GA000MUS	US	i3-6100U	Intel HD 520	8GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	128GB SSD	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/16
20GA000NUS	US	i3-6100U	Intel HD 520	8GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	256GB SSD Opal2	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/16
20GA000QUS	US	i3-6100U	Intel HD 520	8GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	192GB SSD	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/16
20GA000YUS	US	i3-6100U	Intel HD 520	4GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	192GB SSD	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/16
20GA001EUS	US	Celeron N3160	Intel HD	8GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	128GB SSD	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	09/16
20GA001FUS	US	Celeron N3160	Intel HD	4GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	128GB SSD	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	09/16

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ThinkPad Yoga 11e (4th Gen) Platform Specifications

Processor

Intel® Celeron® processor, or 7th Generation Intel Core™ i3 / i5 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Controller	Processor Graphics
Cel N3450	4	4	1.1 GHz	2.2 GHz	2MB	DDR3L-1866	Intel HD graphics 500
i3-7100U	2	4	2.4 GHz	-	3MB	DDR4-2133	Intel HD graphics 620
i5-7200U			2.5 GHz	3.1 GHz	3MB		

Graphics

Intel HD Graphics 500, or Intel HD Graphics 620 in processor,
supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 1920X1080 (HDMI)@30Hz

Chipset

Intel SoC (System on Chip) platform

Memory

4GB or 8GB / 1600MHz DDR3L or 2133MHz DDR4,
one DDR3L or DDR4 SO-DIMM socket
* System clocks down for processors with lower memory controller

Display

11.6" (295mm) HD (1366x768), anti-glare, LED backlight, IPS
250 nits, 16:9 aspect ratio, 800:1 contrast ratio

MultiTouch

Yes, support 10 fingers

Hinge

Yoga hinge, 360 degree

Convertible mode

Laptop, tent, stand and tablet

Pen

Some: Active pen, batteries required

Storage

M.2 Solid State Drive (SSD), SATA 6.0Gb/s

Optical

None

Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

WLAN

One of the following, configurable by model:

- 11ac+BT, QCA NFA435, 1x1, M.2 card
- 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

Bluetooth™

Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
**Intel 7265ac card supports Bluetooth 4.2 but is limited to BT 4.1 by Windows OS*

WWAN

None

Dimensions

WxDxH: 11.81" x 8.27" x 0.90"; 300mm x 210mm x 22.9mm

Weight

from 3.5 lb (1.59kg)

Case color

Display cover: Graphite Black; *Bottom:* Graphite Black

Case material

Display cover: PC+40%GF+TPU; *Bottom:* PC+ABS

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.1 Gen 1 / USB 3.0, HDMI, Ethernet (RJ-45)

Control buttons

Power button, volume control button

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 /
monaural microphone, combo audio/microphone jack

Keyboard

ThinkPad Windows keyboard, 6-row, multimedia Fn keys

UltraNav™

Two buttons click pad below keyboard, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Discrete TPM 2.0, TCG Certified

vPro

None

Fingerprint reader

None

Battery

Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life

MobileMark® 2014: 11 hr

AC adapter

45-watt AC adapter

Preload

Some: Windows 10 Home 64
Some: Windows 10 Pro 64

- Lenovo Connect
- 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 depot repair service

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

Model	Product	Region	Processor	Graphics	Memory	Display	Multi-touch	Color	Storage	Optical	WLAN + Bluetooth	Camera	Pen	Fingerprint Reader	Battery	Power Adapter	Operating System	Warranty	Global	Ann Date (mm/yy)
20HU0000US	ThinkPad Yoga 11e (4th Gen)	US	i3-7100U	Intel HD 620	8GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	128GB SSD	None	Intel 7265 ac, 2x2 + BT4.1	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/17
20HU0001US	ThinkPad Yoga 11e (4th Gen)	US	i3-7100U	Intel HD 620	8GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	256GB SSD Opal2	None	Intel 7265 ac, 2x2 + BT4.1	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/17
20HU0003US	ThinkPad Yoga 11e (4th Gen)	US	Celeron N3450	Intel HD 500	4GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	128GB SSD	None	Intel 7265 ac, 2x2 + BT4.1	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/17
20HU0004US	ThinkPad Yoga 11e (4th Gen)	US	Celeron N3450	Intel HD 500	8GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	128GB SSD	None	Intel 7265 ac, 2x2 + BT4.1	720p	None	None	3-cell (42Wh)	45W	Windows 10 Pro 64	1-year, Depot	No	03/17

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ThinkPad Yoga 11e (5th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor

7th Generation Intel® Core™ m / i5 Processor, Intel Celeron® processor, or Intel Pentium® Silver processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Controller	Processor Graphics
m3-7Y30	2	4	1.0 GHz	2.6 GHz	4MB	LPDDR3-1866	Intel HD Graphics 615
i5-7Y54			1.2 GHz	3.2 GHz	4MB		
Cel N4100	4		1.1 GHz	2.4 GHz	4MB	DDR4-2400	Intel UHD Graphics 600
Pen N5000			1.1 GHz	2.7 GHz	4MB		Intel UHD Graphics 605

Graphics

Intel HD Graphics 615, Intel UHD Graphics 600 or 605 in processor,
supports external digital monitor via HDMI or USB Type-C;
supports dual independent display;
Max resolution: 3840x2160@60Hz (USB Type-C); 4096x2160@30Hz (HDMI)

Chipset

Intel SoC (System on Chip) platform

Memory

4GB or 8GB / 1866MHz LPDDR3 or 2400MHz DDR4 /
soldered to systemboard, no sockets

Display

11.6" (295mm) HD (1366x768), anti-glare, LED backlight, IPS
250 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle

MultiTouch

Capacitive-type multi-touch, support 10 fingers

Hinge

Yoga hinge, 360 degree

Convertible mode

Laptop, tent, stand and tablet

Pen

Some: Active pen, batteries required, on-board garage

Storage

eMMC flash memory on board or
M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s

Optical

None

Ethernet

Realtek RTL8111GUS-CG Gigabit Network Connection

WLAN

One of the following, configurable by model:

- Intel Wireless-AC 9260, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, Wi-Fi 2x2 802.11ac + Bluetooth 5.0, M.2 card

Bluetooth™

Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

Dimensions

WxDxH: 11.81" x 8.27" x 0.89"; 300mm x 210mm x 22.5mm

Weight

from 3.4 lb (1.54kg)

Case color

Black

Case material

Display cover: PC/ABS+GF; *Bottom:* PC/ABS plastic

Media reader

MicroSD card reader

Ports

Two USB 3.1 Gen 1, one USB 3.1 Type-C Gen 1, HDMI1.4,
Ethernet (RJ-45), headphone / microphone combo jack,
microSD card reader, security keyhole

Control buttons

Power button, volume control button

Camera

One of the following, configurable by model:

720p: HD720p resolution, low light sensitive, fixed focus
World facing: Rear camera, 5MP resolution, auto focuss

Audio support

HD Audio, Realtek® ALC3287 codec Dolby Audio / stereo speakers, 2W x 2 /
monaural microphone, headphone / microphone combo jack

Keyboard

6-row, multimedia Fn keys

UltraNav™

Two buttons click pad below keyboard, multi-touch

Security

Power-on password, hard disk password, supervisor password, security keyhole

Security chip

Discrete TPM 2.0, TCG Certified

vPro

None

Fingerprint reader

None

Battery

Integrated Li-Ion 42Wh battery

Max battery life

MobileMark® 2014: 12 hr

AC adapter

45W or 65W slim tip AC adapter

Preload

Some: Windows 10 Home 64
Some: Windows 10 Pro 64

Limited warranty

One of the following, configurable by model:

- 1-year depot repair service
- 3-year depot repair service

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

Lenovo
February 2018

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Color	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Camera (Front/WorldFacing)	Pen	Finger-print Reader	Battery (internal)	Power Adapter	Operating System	Warranty	Global	Ann Date (m/y)
20LM0004US	US	m3-7Y30	Intel HD 615	4GB Soldered	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT4.1	Front 720p / None	None	None	42Wh	45W Slim Tip	Win10 Pro 64	1-year, Depot	No	03/18
20LM0005US	US	m3-7Y30	Intel HD 615	4GB Soldered	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT4.1	Front 720p / None	Active Pen	None	42Wh	45W Slim Tip	Win10 Pro 64	1-year, Depot	No	03/18
20LM000UUS	US	Celeron N4100	Intel UHD 600	4GB Soldered	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT4.1	Front 720p / None	None	None	42Wh	45W Slim Tip	Win10 Pro 64	1-year, Depot	No	02/18
20LM000VUS	US	Celeron N4100	Intel UHD 600	4GB Soldered	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	128GB eMMC	None	Intel 9260 ac, 2x2 + BT4.1	Front 720p / None	None	None	42Wh	45W Slim Tip	Win10 Pro 64	1-year, Depot	No	02/18
20LM000WUS	US	Celeron N4100	Intel UHD 600	4GB Soldered	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT4.1	Front 720p / None	Active Pen	None	42Wh	45W Slim Tip	Win10 Pro 64	1-year, Depot	No	02/18
20LM000XUS	US	Celeron N4100	Intel UHD 600	4GB Soldered	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	128GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT4.1	Front 720p / World Facing 5.0MP	Active Pen	None	42Wh	45W Slim Tip	Win10 Pro 64	1-year, Depot	No	02/18
20LM000YUS	US	Pentium Silver N5000	Intel UHD 605	8GB Soldered	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	256GB SSD M.2 PCIe NVMe	None	Intel 9260 ac, 2x2 + BT4.1	Front 720p / None	None	None	42Wh	45W Slim Tip	Win10 Pro 64	1-year, Depot	No	03/18

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ThinkPad Yoga 11e Chromebook (3rd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron® processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Types	Processor Graphics
Cel N3150	4	4	1.6 GHz	2.08 GHz	2MB	LPDDR3-1600	Intel HD graphics
Cel N3160	4	4	1.6 GHz	2.24 GHz	2MB	LPDDR3-1600	Intel HD graphics

Graphics

Intel HD Graphics in processor,
supports external digital monitor via HDMI™;
supports dual independent display;
Max resolution: 1920X1080 (HDMI)@30Hz

Chipset

Intel SoC (System on Chip) platform

Memory

2GB or 4GB / 1600MHz LPDDR3 / soldered to systemboard, no sockets

Display

11.6" (295mm) HD (1366x768), glare, LED backlight, IPS
200 nits, 16:9 aspect ratio, 800:1 contrast ratio

MultiTouch

Yes, support 10 fingers

Hinge

Yoga hinge, 360 degree

Convertible mode

Laptop, tent, stand and tablet

Pen

None

Storage

16GB eMMC (embedded Multi Media Card) flash memory on board

Optical

None

Ethernet

None

WLAN[4]

11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN

None

Dimensions[3]

WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm

Weight[2]

from 3.3 lb (1.50kg)

Case color

Display cover: Graphite Black or Silver; *Bottom:* Graphite Black

Case material

Display cover: PC+40%GF+TPU; *Bottom:* PCC

Media reader

4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports

Two USB 3.0 (one Always On), HDMI

Control buttons

Power button, volume control button

Camera

HD720p resolution, low light sensitive, fixed focus

Audio support

Realtek® ALC5650 codec / stereo speakers, 2W x 2 /
monaural digital microphone, combo audio/microphone jack

Keyboard

ThinkPad Chrome keyboard, 6-row, multimedia Fn keys

UltraNav™

Buttonless touchpad below keyboard, multi-touch

Security

Security keyhole

Security chip

Trusted Platform Module, TCG 1.2-compliant

vPro

None

Fingerprint reader

None

Battery

Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life[10]

Up to 12 hr

AC adapter

45-watt AC adapter

Preload

Google Chrome OS

Limited warranty[12]

1-year depot repair service

Mil-Spec test

MIL-STD-810G military certification

Environment

EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant

Lenovo
July 2017

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Storage	Optical	WLAN + Bluetooth	Color	Camera	Pen	Finger-print Reader	Battery	Power Adapter	Operating System	Warranty	Global	Ann Date (m/y)
20GE0002US	US	Celeron N3150	Intel HD	4GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	16GB eMMC	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Chrome OS	1-year, Depot	No	03/16
20GE0003US	US	Celeron N3160	Intel HD	4GBx1	11.6" HD (1366x768) IPS	10-point Multi-touch	16GB eMMC	None	Intel 7265 ac, 2x2 + BT4.0	Black	720p	None	None	3-cell (42Wh)	45W	Chrome OS	1-year, Depot	No	10/16

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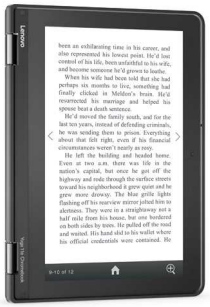

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ThinkPad Yoga 11e Chromebook (4th Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor — Intel® Celeron® processor

Processor Number	# of Cores	# of Threads	Base Frequency	Burst Frequency	Cache	Memory Controller	Processor Graphics
Cel N3450	4	4	1.1 GHz	2.2 GHz	2MB	LPDDR4-2400	Intel HD graphics 500

Graphics — Intel HD Graphics 500 in processor

Chipset — Intel SoC (System on Chip) platform

Memory — 4GB or 8GB 3200MHz LPDDR4 / soldered to systemboard, no sockets
* System clocks down for processors with lower memory controller

Display — 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, IPS
250 nits, 16:9 aspect ratio, 800:1 contrast ratio

MultiTouch — Yes, support 10 fingers

Hinge — Yoga hinge, 360 degree

Convertible mode — Laptop, tent, stand and tablet

Pen — None

Storage — 32GB eMMC (embedded Multi Media Card) flash memory on board

Optical — None

Ethernet — None

WLAN — 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card

Bluetooth™ — Bluetooth 4.2 wireless, integrated in Wi-Fi + Bluetooth combo adapter

WWAN — None

Dimensions — *WxDxH:* 11.81" x 8.27" x 0.92"; 300mm x 210mm x 23.4mm

Weight — from 3.5 lb (1.59kg)

Case color — *Display cover:* Graphite Black; *Bottom:* Graphite Black

Case material — *Display cover:* PC+40%GF+TPU; *Bottom:* PC+ABS

Media reader — 3-in-1 reader (SD, SDHC, SDXC)

Ports — Two USB 3.1 Type-C Gen 1, one USB 3.1 Gen 1 / USB 3.0

Control buttons — Power button, volume control button

Camera — HD720p resolution, low light sensitive, fixed focus

Audio support — HD Audio, DA7219 codec / stereo speakers, 2W x 2 / monaural microphone, combo audio/microphone jack

Keyboard — ThinkPad Chrome keyboard, 6-row, multimedia Fn keys

UltraNav™ — Two buttons click pad below keyboard, multi-touch

Security — Power-on password, hard disk password, supervisor password, security keyhole

Security chip — None

vPro — None

Fingerprint reader — None

Battery — Integrated Lithium Polymer 3-cell *(42Wh)*

Max battery life — Up to 10 hr

AC adapter — 45-watt USB Type-C adapter

Preload — Google Chrome OS

Limited warranty — • 1-year depot repair service

Mil-Spec test — MIL-STD-810G military certification

Environment — EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant

Lenovo
July 2017

Model	Region	Processor	Graphics	Memory	Display	Multi-touch	Color	Storage	Optical	WLAN + Bluetooth	Camera	Pen	Finger-print Reader	Battery	Power Adapter	Operating System	Warranty	Global	Ann Date (m/y)
20HY0000US	US	Celeron N3450	Intel HD 500	4GB Soldered	11.6" HD (1366x768) IPS	10-point Multi-touch	Black	32GB eMMC	None	Intel 7265 ac, 2x2 + BT4.2	720p	None	None	3-cell (42Wh)	45W	Chrome OS	1-year, Depot	No	04/17

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ThinkPad Yoga 370 Platform Specifications

Processor

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 620 in processor only;
supports external digital monitor via HDMI;
supports dual independent display;
Max resolution: 4096x2160 (HDMI)@24Hz

Chipset
Intel SoC (System on Chip) platform

Memory
WWAN model: 8GB 2133MHz DDR4 soldered to systemboard
Non-WWAN model: 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket

Display
13.3" (337.8mm) FHD (1920x1080), glossy, LED backlight, IPS
300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Multi-touch
Capacitive-type multi-touch, AR (anti-reflection), AS (anti-smudge), supports 10-finger gesture

Hinge
Yoga hinge, 360 degree

Convert-mode
Laptop, tent, stand, yoga and tablet

Pen
ThinkPad Pen Pro, active pen for multi-touch display, on-board charging

Storage
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)

Optical
None

Ethernet
Native Intel Ethernet Connection I219-V (*Non-vPro*) or I219-LM (*vPro*))
via optional ThinkPad Ethernet Extension Cable

WLAN
One of the following, configurable by model (WiGig is mutually exclusive with WWAN):
- 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

** WiGig adapter is only available in selected countries**

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)*
Integrated Mobile Broadband 4G LTE-A, Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)
WWAN models are only available with i5, i7 processores, WWAN models is not available in North America

SIM card *(opt)*
Micro-SIM card slot, optional Lenovo Connect (EMEA) SIM card

Dimensions
WxDxH: 12.34" x 8.75" x 0.72"; 313.5mm x 222.2mm x 18.2mm

Weight
Starting at 3.03 lb (1.37kg)

Case color
Black or silver

Case Materal
Carbon-Fiber Hybrid

Smart card reader
Optional: Smart card reader (mutually exclusive with NFC)

Media reader
One microSD card slot (microSD, microSDHC, microSDXC), UHS-I

Ports
Two USB 3.1 Gen 1 (USB 3.0, one Always On),
USB 3.1 Type-C Gen 2 / Thunderbolt 3, HDMI 1.4b, Ethernet extension connector

WiGig dock
Optional: ThinkPad WiGig dock

Monitor cable *(optional)*
USB-C to VGA: Lenovo USB C to VGA Plus Power Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter

Camera
HD720p resolution, fixed focus

Audio support
HD Audio, Conexant® CX11771 codec, Dolby® DAXII / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, LED backlight

UltraNav™
TrackPoint® pointing device and 3+2 buttons Mylar surface multi-touch click pad

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 palm rest

NFC *(optional)*
Near Field Communication (mutually exclusive with smart card reader)

Battery
Li-Polymer 4-cell *(51Wh)* battery

Max battery life
MobileMark® 2014: 12.5 hr

AC adapter
45W or 65W AC adapter (slim tip), 65W USB Type-C AC adapter

Light sensor
Ambient Light Sensor

G-sensor/ eCompass
3D accelerometer and 3D magnetometer
3D compass

Gyroscope
3D gyrometer

Preload
Some: Windows 10 Home 64
Some: Windows 10 Pro 64
- Lenovo Connect
- 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®; RoHS-compliant

Model	Region	Processor	vPro	Graphics	Memory	Display	Case Material	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Adapter	Color	Pen	Fingerprint Reader	NFC	TPM	Power Adapter	Operating System	Warranty	Global	End of Support	Ann Date (mm/yy)
20JH001VUS	US	i5-7300U	vPro	Intel HD 620	16GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH001WUS	US	i5-7200U	No	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH001XUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH001YUS	US	i7-7600U	vPro	Intel HD 620	16GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0020US	US	i7-7500U	No	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0021US	US	i7-7500U	No	Intel HD 620	16GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0022US	US	i7-7600U	vPro	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0023US	US	i5-7200U	No	Intel HD 620	4GBx1	13.3" FHD (1920x1080) IPS	Carbon	128GB SSD M.2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0024US	US	i5-7200U	No	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0025US	US	i5-7200U	No	Intel HD 620	4GBx1	13.3" FHD (1920x1080) IPS	Carbon	128GB SSD M.2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0026US	US	i5-7200U	No	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0027US	US	i7-7500U	No	Intel HD 620	16GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0028US	US	i7-7500U	No	Intel HD 620	16GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH0029US	US	i7-7600U	vPro	Intel HD 620	16GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH002AUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH002BUS	US	i5-7300U	vPro	Intel HD 620	16GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH002CUS	US	i5-7200U	No	Intel HD 620	4GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH002DUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH002FUS	US	i7-7500U	No	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	256GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH002GUS	US	i5-7300U	vPro	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17

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Model	Region	Processor	vPro	Graphics	Memory	Display	Case Material	Storage(HDD/SSD)	WLAN + Bluetooth	WWAN	SIM Card	Smart Card Reader	Dock	Monitor Cable	Adapter	Color	Pen	Fingerprint Reader	NFC	TPM	Power Adapter	Operating System	Warranty	Global	End of Support	Ann Date (mm/yy)
20JH002JUS	US	i7-7600U	vPro	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	512GB SSD M.2 PCIe NVMe Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	1-year, Depot	No	Apr 14, 2023	03/17
20JH002WUS	US	i5-7200U	No	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	180GB SSD M.2 Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Black	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	3-year, Depot	No	Mar 14, 2022	03/17
20JH002XUS	US	i5-7200U	No	Intel HD 620	8GBx1	13.3" FHD (1920x1080) IPS	Carbon	180GB SSD M.2 Opal2	Intel 8265 ac, 2x2 + BT4.1	None	None	None	None	None	None	Silver	Pen Pro	Fingerprint Reader	None	dTPM 2.0	45W	Win10 Pro 64	3-year, Depot	No	Mar 14, 2022	03/17

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Lenovo Services:
Carry-in or Mail-in Service: Parts and labor repair coverage where the customer is responsible for shipping (including packaging) or delivery to authorized warranty provider or repair center.
Depot or Courier Service: Parts and labor repair coverage where shipping (including packaging) or delivery to the repair center is paid for by Lenovo.
Expedited Depot: Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.
Onsite / In-home Service: Parts and labor repair coverage where labor is provided onsite at your place of business.
If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.
International Warranty Service (IWS): PC repair coverage for customers who require a critical warranty repair while travelling internationally. Visit www.lenovo.com/internationalwarranty for details.
Visit www.lenovo.com/warranty for Lenovo Warranty Services terms and conditions for complete details and restrictions.

Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

Battery life: Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

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Lenovo ThinkCentre

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Product Specifications Reference

Version 539, March 2019

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Summary of Changes

This section describes the technical changes made in this edition.
This edition might also include minor corrections and editorial changes which are not identified.

March 2019 - Version 539

Additions in this update

►**New product(s)**
ThinkSmart Hub 700 announced March 2019

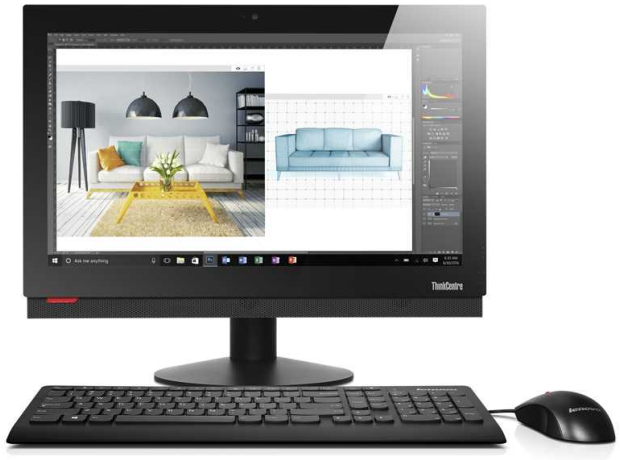
►**New model(s)**
None

►**Others**
None

Withdrawals in this update

►**Withdrawn product(s)**
None

►**Withdrawn model(s)**
None



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ThinkCentre M810z Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4560	2 / 4	3.5G	3 MB	DDR4-2400	HD 610
Pentium G4600	2 / 4	3.6G	3 MB	DDR4-2400	HD 630
Core i3-6100	2 / 4	3.7G	3 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2G / 3.6G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4G / 4.0G	8 MB	DDR4-2133	HD 530
Core i3-7100	2 / 4	3.9G	3 MB	DDR4-2400	HD 630
Core i5-7400	4 / 4	3.0G / 3.5G	6 MB	DDR4-2400	HD 630
Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630
Core i5-7600	4 / 4	3.5G / 4.1G	6 MB	DDR4-2400	HD 630
Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630

Memory

32GB max, DDR4-2400*, two 260-pin SO-DIMM sockets, dual-channel capable
* System clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.5mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.5mm)

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz, 1920x1080 (Panel)@60Hz

Display

21.5" (546.1mm) **Full HD 1080p (1920x1080) TFT color**, MVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 1080p camera, fixed focus, with dual microphone, LED indicator, physical switch on/offf

Controls

Physical buttons for Microphone mute, brightness up/down, and power on/off

Chipset

Intel B250 Chipset

Rear ports*
Side ports*

Four USB 3.1 Gen1, ethernet (RJ-45), DisplayPort, optional serial (9-pin),
Two USB 3.1 Gen1 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

M.2 card slot

Two M.2 Card slots (one for WLAN, one for SSD/Optane)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal speakers (2W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Optional cable lock to physically lock keyboard and mouse
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless stand
- Support VESA mount (100mm)

	Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand:	21.1 X 1.8 X 14.3 (inch); 535 X 45 X 363 (mm)	(Touch) 14.6 / 6.6 (Non-touch) 12.8 / 5.8	N/A
With Basic Monitor stand:	21.1 X 9.6 X 17.0 (inch); 535 X 245 X 431 (mm)	(Non-touch) 17.0 / 7.7	Tilt: 45° back, -5° forward
With UltraFlex II stand:	21.1X 10.0 X 19.3 (inch); 535 X 253 X 489 (mm)	(Touch) 20.3 / 9.2 (Non-touch) 18.3 / 8.3	Tilt: 61° back, -5° forward; Lift: 110mm; Swivel: +/-45°

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate

- Only for Window 10

- Lenovo Companion

- Only for Window 7

- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- ThinkVantage System Update
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

Environment

EPEAT™ Gold rating (North America); ENERGY STAR® 6.1; TCO AIO Computer Certified; ErP Lot 3; GREENGUARD® certified; RoHS-compliant

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

See footnotes for more detailed information

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Model	Region	Processor	Graphics	Monitor Cable	Memory	Display	Multi-touch	Power Supply	Storage(HDD/SSD)	Optical	Media Reader	USB Type-C	WLAN + Bluetooth	Optional Rear Ports	Camera	Chassis Intrusion Switch	Cable Lock	Keyboard / Mouse	Stand	Operating System	Warranty	End of Support	Ann Date (m/y)
10NX0000US	US	i5-7400	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	256GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX0001US	US	i5-7500	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	256GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX0002US	US	i5-7400	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX0003US	US	i7-7700	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	512GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX0005US	US	i7-7700	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX0006US	US	i5-7400	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX0007US	US	i5-7500	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX0008US	US	i7-7700	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	256GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX0009US	US	i5-7500	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	512GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NX000MUS	US	i5-7400	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NX000NUS	US	i5-7500	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NX000PUS	US	Pentium G4560	Intel HD 610	None	4GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NX000QUS	US	i3-7100	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NX000RUS	US	i3-7100	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17

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Model	Region	Processor	Graphics	Monitor Cable	Memory	Display	Multi-touch	Power Supply	Storage(HDD/SSD)	Optical	Media Reader	USB Type-C	WLAN + Bluetooth	Optional Rear Ports	Camera	Chassis Intrusion Switch	Cable Lock	Keyboard / Mouse	Stand	Operating System	Warranty	End of Support	Ann Date (m/y)
10NY0002US	US	i5-7500	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	512GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY0003US	US	i7-7700	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	512GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY0004US	US	i5-7500	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY0005US	US	i7-7700	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY0006US	US	i5-7400	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY0007US	US	i5-7500	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY0008US	US	i5-7400	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY0009US	US	i5-7400	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY000BUS	US	i7-7700	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY000CUS	US	i5-7500	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Apr 7, 2023	03/17
10NY000QUS	US	Pentium G4400	Intel HD 510	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY000RUS	US	i5-6500	Intel HD 530	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY000SUS	US	i5-7400	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NY000TUS	US	i5-6500	Intel HD 530	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY000UUS	US	i7-6700	Intel HD 530	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	512GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY000VUS	US	i7-6700	Intel HD 530	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY000WUS	US	i7-6700	Intel HD 530	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY000XUS	US	i5-6500	Intel HD 530	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY000YUS	US	i3-6100	Intel HD 530	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY0010US	US	i3-6100	Intel HD 530	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17

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Model	Region	Processor	Graphics	Monitor Cable	Memory	Display	Multi-touch	Power Supply	Storage(HDD/SSD)	Optical	Media Reader	USB Type-C	WLAN + Bluetooth	Optional Rear Ports	Camera	Chassis Intrusion Switch	Cable Lock	Keyboard / Mouse	Stand	Operating System	Warranty	End of Support	Ann Date (m/y)
10NY0011US	US	i5-7500	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NY0012US	US	i5-6500	Intel HD 530	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NY0013US	US	Pentium G4560	Intel HD 610	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NY0014US	US	i3-7100	Intel HD 630	None	8GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NY0015US	US	i3-7100	Intel HD 630	None	4GBx1	21.5" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2 + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17

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ThinkCentre M820z Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900	2 / 2	3.1G	2 MB	DDR4-2400	UHD 610
Celeron G4920	2 / 2	3.2G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400	2 / 4	3.7G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500	2 / 4	3.8G	4 MB	DDR4-2400	UHD 630
Pentium Gold G5600	2 / 4	3.9G	4 MB	DDR4-2400	UHD 630
Core i3-8100	4 / 4	3.6G	6 MB	DDR4-2400	UHD 630
Core i3-8300	4 / 4	3.7G	8 MB	DDR4-2400	UHD 630
Core i5-8400	6 / 6	2.8G / 4.0G	9 MB	DDR4-2666	UHD 630
Core i5-8500	6 / 6	3.0G / 4.1G	9 MB	DDR4-2666	UHD 630
Core i5-8600	6 / 6	3.1G / 4.3G	9 MB	DDR4-2666	UHD 630
Core i7-8700	6 / 12	3.2G / 4.6G	12 MB	DDR4-2666	UHD 630

Memory

32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, dual-channel capable
* System clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Media reader

Optional 3-in-1 media card reader

Graphics

Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz, 1920x1080 (Panel)@60Hz

Display

21.5" (546.1mm) **Full HD 1080p (1920x1080) TFT color**, Borderless design, MVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode

Multi-touch

Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology

Camera

Optional 1080p camera, with dual microphone, LED indicator, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°)

Controls

Physical buttons on side for microphone mute and power on/off

Chipset

Intel B360 Chipset

Rear ports*

Four USB 3.1 Gen1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort, one optional serial (9-pin),

Side ports*

one USB 3.1 Gen2 (one is Always On and fast charge), one USB 3.1 Type-C Gen 1, one optional card reader, one headphone / microphone combo jack (3.5mm)

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

M.2 card slot

Two M.2 Card slots (one for WLAN, one for SSD/Optane)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal speakers (2W x 2), Dolby® Audio™ Premium

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111G, Wake on LAN®

Manageability

None

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless back cover, stand, memory removal
- Support VESA mount (100mm)

Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand (No camera):		
19.3 X 1.9 X 13.5 (inch) 491 X 49 X 342 (mm)	(Touch) 11.6 / 5.25 (Non-touch) 11.1 / 5.05	N/A
With Full Function Monitor stand (No camera):		
19.3 X 9.9 X 14.8 to 19.1 (inch) 491 X 252 X 377 to 486 (mm)	(Non-touch) 15.8 / 7.18	Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
With UltraFlex III stand (No camera):		
19.3 X 9.9 X 16.4 (highest) (inch) 491 X 252 X 416 (highest) (mm)	(Touch) 17.3 / 7.85 (Non-touch) 16.9 / 7.65	Tilt: 70° back, -5° forward; Lift: 136mm; Swivel: +/-45°

Power supply

150 watts, autosensing, 90% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment

ENERGY STAR® 7.0*, EPEAT™ Gold rating* (*not for non-OS models), ErP Lot 3, TCO AIO Computer certified, GREENGUARD® certified, TUV Eye comfort certified (for Full Function Monitor Stand only), TUV Low Blue Light certified, TUV Ultra Low Noise certified (on some models), RoHS-compliant

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus)

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Display	Multi-touch	Media Reader	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Camera	Speaker	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	End of Support	Ann Date (m/y)
10SC000QUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC000RUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC000SUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC000TUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC000UUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC000VUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC000WUS	US	i3-8100	No	Intel UHD 630	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC000XUS	US	i3-8100	No	Intel UHD 630	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC000YUS	US	i3-8100	No	Intel UHD 630	None	4GBx1	1TB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0010US	US	Pentium Gold G5400	No	Intel UHD 610	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0011US	US	i7-8700	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0012US	US	i5-8400	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0013US	US	i5-8400	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0014US	US	i7-8700	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0015US	US	i3-8100	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0016US	US	i3-8100	No	Intel UHD 630	None	4GBx1	1TB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0017US	US	i5-8400	No	Intel UHD 630	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0018US	US	Pentium Gold G5400	No	Intel UHD 610	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC0019US	US	i5-8400	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC001AUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Display	Multi-touch	Media Reader	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Camera	Speaker	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	End of Support	Ann Date (m/y)
10SC001BUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC001CUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC001DUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC001EUS	US	i5-8400	No	Intel UHD 630	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	None	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10SC001FUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	21.5" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	8265 ac, 2x2 + BT4.2	None	None	1080p	2Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18

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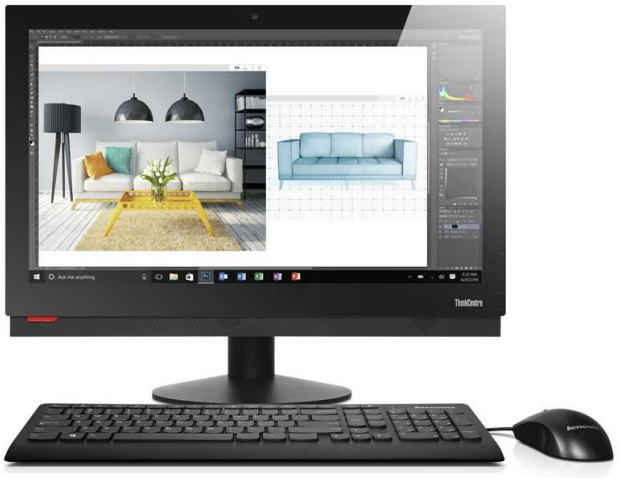

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ThinkCentre M910z Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6th / 7th Gen Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Core i3-6100	2 / 4	3.7G	3 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2G / 3.6G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4G / 4.0G	8 MB	DDR4-2133	HD 530
Core i3-7100	2 / 4	3.9G	3 MB	DDR4-2400	HD 630
Core i5-7400	4 / 4	3.0G / 3.5G	6 MB	DDR4-2400	HD 630
Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630
Core i5-7600	4 / 4	3.5G / 4.1G	6 MB	DDR4-2400	HD 630
Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630

Memory

32GB max, DDR4-2400*, two 260-pin SO-DIMM sockets, dual-channel capable

* System clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.5mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.5mm)

Media reader

Optional 9-in-1 media card reader

Graphics

Intel HD Graphics 530/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz, 1920x1080 (Panel)@60Hz

Display

23.8" (604.5mm) **Full HD 1080p (1920x1080) TFT color**, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode, work as standalone monitor via DisplayPort (DP in / out combo)

Multi-touch

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

Camera

Optional 1080p camera, fixed focus, with dual microphone, LED indicator, physical switch on/offf

Controls

Physical buttons for Microphone mute, monitor mode switch, brightness up/down, and power on/off

Chipset

Intel Q270 Chipset

Rear ports*

Four USB 3.1 Gen1, ethernet (RJ-45), DisplayPort in/out combo port, optional serial (9-pin)

Side ports*

Two USB 3.1 Gen1 (one is Always On and fast charge), optional card reader, one headphone / microphone combo jack (3.5mm), optional USB 3.1 Type-C Gen1

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

M.2 card slot

Two M.2 Card slots (one for WLAN, one for SSD/Optane)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal speakers (3W x 2), Dolby® Audio™ certified

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Optional cable lock to physically lock keyboard and mouse
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless back cover, stand, disk, memory removal
- Support VESA mount (100mm)

	Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand:	23.0 X 1.8 X 15.4 (inch); 584 X 45 X 390 (mm)	(Touch) 17.2 / 7.8 (Non-touch) 15.0 / 6.8	N/A
With Basic Monitor stand:	23.0 X 9.6 X 18.0 (inch); 584 X 245 X 458 (mm)	(Non-touch) 19.4 / 8.8	Tilt: 45° back, -5° forward
With UltraFlex II stand:	23.0X 10.0 X 19.9 (inch); 584 X 253 X 505 (mm)	(Touch) 22.7 / 10.3 (Non-touch) 20.7 / 9.4	Tilt: 61° back, -5° forward; Lift: 110mm; Swivel: +/-45°

Power supply

150 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate

- Only for Window 10
- Lenovo Companion

- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- ThinkVantage System Update
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

Environment

EPEAT™ Gold rating (North America); ENERGY STAR® 6.1; TCO AIO Computer Certified; ULE Gold; ErP Lot 3; GREENGUARD® certified; RoHS-compliant

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

See footnotes for more detailed information

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Display	Multi-touch	Power Supply	Storage(HDD/SSD)	Optical	Media Reader	USB Type-C	WLAN + Bluetooth	Optional Rear Ports	Camera	Chassis Intrusion Switch	Cable Lock	Keyboard / Mouse	Stand	Operating System	Warranty	End of Support	Ann Date (m/y)
10NR000HUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NR000KUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NR000LUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NR000MUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NR000PUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NR000QUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NR000RUS	US	i5-7500	vPro	Intel HD 630	None	4GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NR0017US	US	i5-7500	vPro	Intel HD 630	None	4GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NR0018US	US	i7-7700	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Display	Multi-touch	Power Supply	Storage(HDD/SSD)	Optical	Media Reader	USB Type-C	WLAN + Bluetooth	Optional Rear Ports	Camera	Chassis Intrusion Switch	Cable Lock	Keyboard / Mouse	Stand	Operating System	Warranty	End of Support	Ann Date (m/y)
10NS0001US	US	i5-7500	vPro	Intel HD 630	None	4GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NS0003US	US	i5-7500	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NS0004US	US	i7-7700	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NS0006US	US	i7-7700	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NS0007US	US	i5-7500	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NS0008US	US	i5-7500	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NS000AUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	Mar 28, 2023	02/17
10NS000UUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS000VUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS000WUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS000XUS	US	i5-6500	vPro	Intel HD 530	None	4GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS000YUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS0010US	US	i5-6500	vPro	Intel HD 530	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	500GB 7200rpm 2.5"	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS0011US	US	i5-7500	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NS0012US	US	i7-6700	vPro	Intel HD 530	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS0013US	US	i7-7700	vPro	Intel HD 630	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NS0014US	US	i5-6500	vPro	Intel HD 530	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS0015US	US	i7-6700	vPro	Intel HD 530	None	8GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17
10NS0016US	US	i5-7500	vPro	Intel HD 630	None	4GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 Pro 64	3-year, Onsite	May 7, 2023	04/17
10NS0017US	US	i5-6500	vPro	Intel HD 530	None	4GBx1	23.8" FHD (1920x1080) WVA AG	None	150W 85% Adapter	128GB SSD M.2 PCIe NVMe	DVD±RW	9-in-1	None	8265 ac, 2x2, vPro + BT4.1	None	1080p	None	None	USB / USB	UltraFlex II Stand	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 29, 2023	03/17

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ThinkCentre M920z Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900	2 / 2	3.1G	2 MB	DDR4-2400	UHD 610
Celeron G4920	2 / 2	3.2G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400	2 / 4	3.7G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500	2 / 4	3.8G	4 MB	DDR4-2400	UHD 630
Pentium Gold G5600	2 / 4	3.9G	4 MB	DDR4-2400	UHD 630
Core i3-8100	4 / 4	3.6G	6 MB	DDR4-2400	UHD 630
Core i3-8300	4 / 4	3.7G	8 MB	DDR4-2400	UHD 630
Core i5-8400	6 / 6	2.8G / 4.0G	9 MB	DDR4-2666	UHD 630
Core i5-8500	6 / 6	3.0G / 4.1G	9 MB	DDR4-2666	UHD 630
Core i5-8600	6 / 6	3.1G / 4.3G	9 MB	DDR4-2666	UHD 630
Core i7-8700	6 / 12	3.2G / 4.6G	12 MB	DDR4-2666	UHD 630

Memory

32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, dual-channel capable
* System clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm, supports up to two HDDs (2nd HDD occupies ODD bay), RAID0/1 support (RAID preset only available via special bid model)
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Media reader

Optional 3-in-1 media card reader

Graphics

Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™;
Max resolution: 4096x2304 (DP)@60Hz, 1920x1080 (Panel)@60Hz

Display

23.8" (604.5mm) **Full HD 1080p (1920x1080) TFT color**, Borderless design, WVA panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode, work as standalone monitor via DisplayPort (DP in / out combo)

Multi-touch

Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology

Camera

Some: 1080p camera, with dual microphone, LED indicator, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°)
Some: RGBIR camera, 1080p, with dual microphone, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°) Windows Hello support, only available via special bid models

Controls

Physical buttons on side for microphone mute and power on/off

Chipset

Intel Q370 Chipset

Rear ports

Four USB 3.1 Gen1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort in/out combo port, one optional serial (9-pin)

Side ports

one USB 3.1 Gen2 (one is Always On and fast charge), one USB 3.1 Gen1, one USB 3.1 Type-C Gen 1, one optional card reader, one headphone / microphone combo jack (3.5mm)

M.2 card slot

Two M.2 Card slots (one for WLAN, one for SSD/Optane)

Audio support

High Definition (HD) Audio, Realtek ALC233 / two internal speakers (3W x 2), Dolby® Audio™ Premium

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 12.0 (Intel AMT 12.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Business black color
- Toolless back cover, stand, disk, memory removal
- Support VESA mount (100mm)

Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments
Without stand (No camera):		
21.3 X 1.8 X 13.7 (inch) 542 X 46 X 349 (mm)	(Touch) 14.0 / 6.34 (Non-touch) 13.5 / 6.13	N/A
With Full Function Monitor stand (No camera):		
21.3 X 9.9 X 15.9 to 20.2 (inch) 542 X 252 X 405 to 514 (mm)	(Non-touch) 18.2 / 8.26	Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
With UltraFlex III stand (No camera):		
21.3 X 9.9 X 14.3 to 17.5 (inch) 542 X 252 X 363 to 444 (mm)	(Touch) 19.7 / 8.94 (Non-touch) 19.2 / 8.73	Tilt: 70° back, -5° forward; Lift: 136mm; Swivel: +/-45°

Power supply

150 watts, autosensing, 90% PSU

Limited warranty[3]

Some: **1-year or 3-year, depot repair service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment

ENERGY STAR® 7.0*, EPEAT™ Gold rating* (*not for non-OS models), ErP Lot 3, TCO AIO Computer certified, GREENGUARD® certified, TUV Eye comfort certified, TUV Low Blue Light certified, TUV Ultra Low Noise certified (on some models), RoHS-compliant

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus)

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Display	Multi-touch	Media Reader	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Camera	Speaker	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	End of Support	Ann Date (m/y)
10S60019US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	23.8" FHD (1920x1080) WVA AG	None	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60021US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60022US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	23.8" FHD (1920x1080) WVA AG	None	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60023US	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60024US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60025US	US	i5-8500	vPro	Intel UHD 630	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	23.8" FHD (1920x1080) WVA AG	None	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60026US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60027US	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60028US	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	500GB 7200rpm 2.5"	DVD±RW	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S60029US	US	i5-8500	vPro	Intel UHD 630	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	23.8" FHD (1920x1080) WVA AG	10-point Multi-touch	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S6002AUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	23.8" FHD (1920x1080) WVA AG	None	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S6002BUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	DVD±RW	23.8" FHD (1920x1080) WVA AG	None	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18
10S6002CUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	23.8" FHD (1920x1080) WVA AG	None	3-in-1	9560 ac, 2x2 + BT5.0	None	None	1080p	3Wx2	UltraFlex III Stand	USB / USB	150W 90%	None	Win10 Pro 64	3-year, Onsite	Aug 24, 2024	07/18

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ThinkCentre M600 Tiny Platform Specifications

Processor

Intel® Celeron® Processor N3000 Series or Intel Pentium® Processor N3000 Series

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Celeron N3050	2 / 2	1.6 / 2.16 GHz	2MB	DDR3L-1600	Intel HD
Celeron J3060	2 / 2	1.6 / 2.48 GHz	2MB	DDR3L-1600	Intel HD 400
Pentium N3700	4 / 4	1.6 / 2.4 GHz	2MB	DDR3L-1600	Intel HD
Pentium J3710	4 / 4	1.6 / 2.64 GHz	2MB	DDR3L-1600	Intel HD 405

Chipset

Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11.1, twoDisplayPort™, one optional 3rd DP (not support DP to HDMI dongle) or VGA, supports triple independent display;
Maximum resolution: 3840x2160(DP)@30Hz; 1920x1200(optional VGA)@60Hz; 1920x1080(DP to VGA dongle)@60Hz; 1920x1080(DP to DVI dongle)@60Hz; 3840x2160(DP to HDMI dongle)@30Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket

Storage

Some: hard disk, 5400 or 7200 rpm, SATA 6.0Gb/s, 2.5" Wide
Some: 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical

Some: external ODD box with DVD-ROM, 9.5mm high, via USB
Some: external ODD box with DVD±RW, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD-ROM, 9.5mm high, via USB
Some: external ODD box (for TIO) with DVD±RW, 9.5mm high, via USB

Onboard SATA

SATA 6.0Gb/s controller, one connectors on planar

Media reader

None

Front ports*

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports*

Two USB 2.0, two USB 3.0 (optional external optical box or I/O box occupies one or two specific USB on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone

I/O box*

Optional external I/O box, extends two USB 2.0, two USB 3.0, and one serial on rear, two USB 2.0 on front, via USB (occupy two specific USB 3.0 of M600 Tiny)

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8260, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo USB Fingerprint Keyboard (USB connector)
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L), black color, metal case

	Dimensions (WxDxH)	Max weight (lb / kg)
M600 Tiny only (1L)	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.9 lb (1.3 kg)
M600 Tiny (1L) with VESA mount & ODD box	7.42" X 7.30" X 2.48" 188.4mm X 185.38mm X 63mm	4.12 lb (1.87 kg)
M600 Tiny (1L) with VESA mount & I/O box	7.42" X 7.30" X 2.62" 188.4mm X 185.38mm X 66.6mm	3.53 lb (1.6 kg)

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit
Some: Windows 7 Professional 64
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Desktop Power Manager
- Lenovo Solution Center
- Lenovo REACHit
- Lenovo SHAREit
- Lenovo Bluetooth Lock
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaded; purchase a product key to activate
- PowerDVD Create (DVD±RW)
- Lenovo ThinkVantage Tools

- Only for Window 10

- Lenovo Companion (Win10)
- Cyberlink PowerDVD (DVD, DVD±RW)
- Lenovo QuickOptimizer

- Only for Window 7

- Rescue and Recovery
- Password Manager
- ThinkVantage System Update
- Lenovo Message Center Plus
- Adobe® Reader®

Environment

ENERGY STAR® 6.0*, EPEAT™ Gold rating* (*not for non-OS models); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

Model	Region	Case 1L/2L	Processor	vPro	Graphics	Monitor Cable	Memory	Storage	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	Ann Date (m/y)
10G9000NUS	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 8260 ac, 2x2 + BT4.1	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	10/15
10G9000WUS	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	04/16
10G9000XUS	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	05/16
10G9000YUS	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	05/16
10G90010US	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	05/16
10G90011US	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	128GB SSD	None	Intel 3165 ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	05/16
10G90012US	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	05/16
10G90013US	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	128GB SSD	None	Intel 3165 ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	05/16
10G90014US	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	05/16
10G90015US	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	05/16
10G90016US	US	1L	Pentium N3700	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	05/16
10G9001CUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	128GB SSD	None	Intel 8260 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	07/16
10G9001DUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	07/16
10G9001EUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	07/16
10G9001FUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	07/16
10G9001GUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	128GB SSD	None	Intel 3165 ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	07/16
10G9001HUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	07/16
10G9001QUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 8260 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	09/16
10G9001RUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	128GB SSD	None	Intel 3165 ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	09/16
10G9001SUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	09/16

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Model	Region	Case 1L/2L	Processor	vPro	Graphics	Monitor Cable	Memory	Storage	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	Ann Date (m/y)
10G9001TUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	128GB SSD	None	Intel 8260 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	09/16
10G9001UUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	09/16
10G9001VUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	09/16
10G9001WUS	US	1L	Pentium J3710	No	Intel HD 405	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 3165 ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	1-year, Onsite	09/16

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Model	Region	Case 1L/2L	Processor	vPro	Graphics	Monitor Cable	Memory	Storage	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	Ann Date (m/y)
10GB000JUS	US	1L	Celeron N3050	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 8260 ac, 2x2 + BT4.1	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/15
10GB000KUS	US	1L	Celeron N3050	No	Intel HD	None	4GBx1	500GB 7200rpm 2.5"	None	Intel 8260 ac, 2x2 + BT4.1	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	10/15
10GB000LUS	US	1L	Celeron N3050	No	Intel HD	None	4GBx1	120GB SSD	None	Intel 8260 ac, 2x2 + BT4.1	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	10/15
10GB000MUS	US	1L	Celeron N3050	No	Intel HD	None	4GBx1	120GB SSD	None	Intel 8260 ac, 2x2 + BT4.1	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/15

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ThinkCentre M600 Tiny Thin Client Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron® Processor N3000 Series or Intel Pentium® Processor N3000 Series

Processor	Cores / Threads	Frequency (Base/Max)	Cache	Memory Types	Integrated Graphics
Celeron N3000	2 / 2	1.04 / 2.08 GHz	2MB	DDR3L-1600	Intel HD
Celeron N3010	2 / 2	1.04 / 2.24 GHz	2MB	DDR3L-1600	Intel HD 400

Chipset

Intel Architecture (IA) SoC that integrates Intel processor core, graphics, memory controller, and I/O interfaces into a single system-on-chip solution

Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11.1, twoDisplayPort™, one optional 3rd DP (not support DP to HDMI dongle) or VGA, supports triple independent display;
Maximum resolution: 3840x2160(DP)@30Hz; 1920x1200(optional VGA)@60Hz; 1920x1080(DP to VGA dongle)@60Hz; 1920x1080(DP to DVI dongle)@60Hz; 3840x2160(DP to HDMI dongle)@30Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Memory

8GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket

Storage

16GB, 32GB, or 128GB M.2 Solid State Drive (SSD), SATA interface

Optical

None

Onboard SATA

SATA 6.0Gb/s controller, one connectors on planar

Media reader

None

Front ports*

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports*

Two USB 2.0, two USB 3.0, ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, or serial on some models), one headphone; additional four serial (9-pin), one parallel (25-pin), and two PS/2 ports on 2L models

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

I/O box

None

Audio support

High Definition (HD) Audio, Realtek ALC223 / optional internal speaker (1 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1 (only for 1L models)

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Trusted Platform Module, TCG 1.2-compliant

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: PS/2 Keyboard (PS/2 connector), Lenovo logo (for 2L models)
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: PS/2 Optical Wheel Mouse, black, Lenovo logo (for 2L models)
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tiny (1L or 2L), black color, metal case

	Dimensions (WxDxH)	Max weight (lb / kg)
M600 Tiny only (1L)	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.9 lb (1.3 kg)
M600 Tiny only (2L)	7.05" X 7.20" X 3.15" 179mm X 182.9mm X 80mm	4.2 lb (1.9 kg)

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, OID (Onsite International Delivery) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

Preload

Some: Windows Embedded Standard 7 (WES 7)
Some: Windows Embedded Standard 7 V2 (WES 7 V2)
Some: Windows 10 IoT Enterprise
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)
Some: LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.0*, EPEAT™ Gold rating* (*not for non-OS models); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories

For compatible accessories, please go to TC-AQP sheet

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

Model	Region	Case 1L/2L	Processor	vPro	Graphics	Monitor Cable	Memory	Storage	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	Ann Date (m/y)
10KH0001US	US	1L	Celeron N3000	No	Intel HD	None	2GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7	1-year, Onsite	01/16
10KH0003US	US	1L	Celeron N3000	No	Intel HD	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7	1-year, Onsite	01/16
10KH0007US	US	1L	Celeron N3000	No	Intel HD	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7	1-year, Onsite	01/16
10KH0008US	US	1L	Celeron N3000	No	Intel HD	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7	1-year, Onsite	01/16
10KH000BUS	US	1L	Celeron N3000	No	Intel HD	None	2GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS	1-year, Onsite	01/16
10KH000CUS	US	1L	Celeron N3000	No	Intel HD	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS	1-year, Onsite	01/16
10KH000FUS	US	1L	Celeron N3000	No	Intel HD	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS	1-year, Onsite	01/16
10KH0023US	US	1L	Celeron N3010	No	Intel HD 400	None	2GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS	1-year, Onsite	07/16
10KH0024US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS	1-year, Onsite	07/16
10KH0025US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7	1-year, Onsite	07/16
10KH0026US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7	1-year, Onsite	07/16
10KH0027US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS	1-year, Onsite	07/16
10KH0028US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7	1-year, Onsite	07/16
10KH0029US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7	1-year, Onsite	07/16
10KH002VUS	US	1L	Celeron N3010	No	Intel HD 400	None	2GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	01/17
10KH002WUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	01/17
10KH002XUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	01/17
10KH002YUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	01/17
10KH0030US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	01/17
10KH0031US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	01/17
10KH0032US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	16GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	01/17
10KH0033US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	01/17
10KH0034US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	01/17
10KH003MUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	None	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	03/17
10KH003PUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	04/17
10KH003QUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	04/17
10KH003RUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	04/17
10KH003SUS	US	1L	Celeron N3010	No	Intel HD 400	None	8GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	04/17

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Model	Region	Case 1L/2L	Processor	vPro	Graphics	Monitor Cable	Memory	Storage	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	Ann Date (m/y)
10KH0047US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	05/17
10KH0048US	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	05/17
10KH0049US	US	1L	Celeron N3010	No	Intel HD 400	None	2GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	None	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	05/17
10KH004AUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	Serial	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	05/17
10KH004BUS	US	1L	Celeron N3010	No	Intel HD 400	None	4GBx1	32GB SSD M.2	None	RTL8821AE ac, 1x1 + BT4.0	VGA	Switch	None	1Wx1	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	05/17

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ThinkCentre M625 Tiny Platform Specifications

Processor

AMD A9 series APU

APU	Cores	Frequency Base/Max	L2 Cache	Memory Types	Integrated Graphics
A9-9420e	2	1.8 / 2.7 GHz	1 MB	DDR4-1866	Radeon R5 Series

Memory

8GB max, DDR4-1866, one 260-pin SO-DIMM socket

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface
Some: 256GB M.2 Solid State Drive (SSD) / PCIe NVMe interface

Optical

None

Onboard SATA

one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (VGA or USB 2.0 Type-C with DisplayPort Alternate Mode), supports up to 2 independent displays;
Max resolution: 3840x2160 (DP)@60Hz; 2048x1280 (VGA)@60Hz; 3840x2160 (USB 2.0 Type-C)@60Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

AMD SoC platform

Front ports*

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports*

One USB 3.1 Gen1, three USB 2.0, ethernet (RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / serial / USB 2.0 Type-C (with DisplayPort Alternate Mode), Port 2 for serial)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

I/O box

None

Audio support

High Definition (HD) Audio, Realtek ALC233-VB2-CG/ internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter
* Win 10 RS3 and Win10 earlier version only support Bluetooth 4.1

Ethernet

Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Fullsize USB Keyboard (USB connector), black, Lenovo logo

Mouse

Some: USB Optical Wheel Mouse, black, Lenovo logo

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open (for models with optional toolless chassis screw)
- Toolless HDD, SSD, memory, Wi-Fi removal
- Optional dust filter

M625 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year, limited onsite service / service upgrades available

Preload

Preloaded operating system

Some: Windows® 10 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

Preloaded applications (only some listed)

- *Windows 10 only*
- Lenovo Vantage
- LinkedIn
- Microsoft Office preloaded; purchase a product key to activate
- *Windows 7 only*
- Lenovo Solution Center
- Lenovo System Update
- Factory Recovery
- User Guide Viewer
- Microsoft Office preloaded; purchase a product key to activate
- Adobe® Reader®

Environment

ENERGY STAR® 6.1*, EPEAT™ Gold rating* (*Not for non-OS models), ErP Lot 3, RoHS-compliant, WEEE, TCO

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	OS	War-ranty	Ann Date (m/y)
10TF000EUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 2.5"	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000FUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	4GBx1	1TB 5400rpm 2.5"	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000GUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	4GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000HUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 2.5"	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000JUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	4GBx1	1TB 5400rpm 2.5"	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000KUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	4GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000LUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	8GBx1	500GB 7200rpm 2.5"	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000MUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	8GBx1	1TB 5400rpm 2.5"	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000NUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000PUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000QUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	8GBx1	500GB 7200rpm 2.5"	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000RUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	8GBx1	1TB 5400rpm 2.5"	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18
10TF000SUS	US	AMD A9-9420e	No	AMD R5 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	1-year, Onsite	04/18

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ThinkCentre M625 Tiny Thin Client Platform Specifications

Processor

AMD E2 series APU

APU	Cores	Frequency Base/Max	L2 Cache	Memory Types	Integrated Graphics
E2-9000e	2	1.5 / 2.0 GHz	1 MB	DDR4-1866	Radeon R2 Series

Memory

8GB max, DDR4-1866, one 260-pin SO-DIMM socket

Disk

Some: 32GB M.2 Solid State Drive (SSD) / SATA interface
Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface

Optical

None

Onboard SATA

one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (VGA or USB 2.0 Type-C with DisplayPort Alternate Mode), supports up to 2 independent displays;
Max resolution: 3840x2160 (DP)@60Hz; 2048x1280 (VGA)@60Hz;
3840x2160 (USB 2.0 Type-C)@60Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

AMD SoC platform

Front ports*

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports*

One USB 3.1 Gen1, three USB 2.0, ethernet (RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / serial / USB 2.0 Type-C (with DisplayPort Alternate Mode), Port 2 for serial)

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

I/O box

None

Audio support

High Definition (HD) Audio, Realtek ALC233-VB2-CG / internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter
* Win 10 RS3 and Win10 earlier version only support Bluetooth 4.1

Ethernet

Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®

Modem

None

Manageability

None

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Fullsize USB Keyboard (USB connector), black, Lenovo logo

Mouse

Some: USB Optical Wheel Mouse, black, Lenovo logo

Mechanical

Tiny (1L), fan-less design, black color, metal case
- Toolless chassis open (for models with optional toolless chassis screw)
- Toolless SSD, memory, Wi-Fi removal

M625 Tiny Thin Client only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year, depot service / service upgrades available
Some: 1-year, limited onsite service / service upgrades available

Preload

Preloaded operating system
Some: Windows Embedded Standard 7 V2 (WES 7 V2)
Some: Windows 10 IoT Enterprise
Some: LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.1*, EPEAT™ Gold rating* (*Not for non-OS models), ErP Lot 3, RoHS-compliant, WEEE, TCO

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	OS	War-ranty	Ann Date (m/y)
10TL0005US	US	AMD E2-9000e	No	AMD R2 Graphics	None	4GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	05/18
10TL0007US	US	AMD E2-9000e	No	AMD R2 Graphics	None	4GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	04/18
10TL0008US	US	AMD E2-9000e	No	AMD R2 Graphics	None	4GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	04/18
10TL0009US	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	04/18
10TL000AUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	04/18
10TL000BUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	04/18
10TL000CUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	4GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	05/18
10TL000DUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	04/18
10TL000FUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	4GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	04/18
10TL000LUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	05/18
10TL000MUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	04/18
10TL000NUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	05/18
10TL000PUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	4GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	04/18
10TL000QUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	1-year, Onsite	04/18
10TL000RUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	04/18
10TL000SUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	1-year, Onsite	04/18
10TL000TUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	QCA6174A ac, 2x2 + BT4.2	VGA + Serial	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	05/18
10TL000WUS	US	AMD E2-9000e	No	AMD R2 Graphics	None	8GBx1	32GB SSD M.2 SATA	QCA6174A ac, 2x2 + BT4.2	None	Chassis Intrusion Switch	None	1.5Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	1-year, Onsite	05/18

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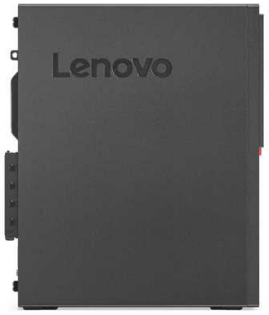

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ThinkCentre M710 SFF Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4560	2 / 4	3.5G	3 MB	DDR4-2400	HD 610
Pentium G4600	2 / 4	3.6G	3 MB	DDR4-2400	HD 630
Core i3-6100	2 / 4	3.7G	3 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2G / 3.6G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4G / 4.0G	8 MB	DDR4-2133	HD 530
Core i3-7100	2 / 4	3.9G	3 MB	DDR4-2400	HD 630
Core i5-7400	4 / 4	3.0G / 3.5G	6 MB	DDR4-2400	HD 630
Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630
Core i5-7600	4 / 4	3.5G / 4.1G	6 MB	DDR4-2400	HD 630
Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630

Memory

64GB max, UDIMM, DDR4-2400, four 288-pin DIMM sockets, non-ECC, dual-channel capable*
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel B250 Chipset

Front ports*

Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)

Rear ports*

Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, two PS/2 ports (keyboard/mouse);
additional DisplayPort on optional graphics on some models

Rear audio ports*

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394*

None

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (8.4L), black color; metal case
- *(WxDxH)* 3.6" X 11.4" X 13.5"; 92.5mm X 290.5mm X 343.5mm
- Approx. 13.2 lb (6.0 kg), weight may vary by configuration
- Toolless cover, disk, optical removal
- Optional dust filter

Bay 1: Slim external ODD bay
Bay 2: 3.5", 1" high, internal, HDD/SSD
Bay 3: 2.5", internal, HDD/SSD (optional bay)
Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16*
Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1*
Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1*
Slot 4: no slot, only bracket for optional port extension*
M.2 card slots: Two (one for WLAN, one for SSD/Optane)
* Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 slot (x4 card), optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate

- Only for Window 10

- Lenovo Companion

- Only for Window 7

- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Optional 2nd 2.5" Bay	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10M7000DUS	US	i7-7700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000EUS	US	i7-7700	No	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000FUS	US	i7-7700	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000GUS	US	i7-7700	No	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000HUS	US	i5-7400	No	Intel HD 630	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000JUS	US	i5-7400	No	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000KUS	US	i7-7700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000LUS	US	i5-7400	No	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000MUS	US	i7-7700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000NUS	US	i7-7700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000PUS	US	i5-7400	No	Intel HD 630	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000QUS	US	i5-7400	No	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000RUS	US	i7-7700	No	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000SUS	US	i5-7400	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7000TUS	US	i7-7700	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M7002WUS	US	i5-7400	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M7002XUS	US	Pentium G4560	No	Intel HD 610	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M7002YUS	US	i3-7100	No	Intel HD 630	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M70030US	US	i5-6500	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M70031US	US	i3-7100	No	Intel HD 630	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Optional 2nd 2.5" Bay	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10M70032US	US	i7-6700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M70033US	US	i7-6700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M70034US	US	i5-7400	No	Intel HD 630	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M70035US	US	i7-6700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M70036US	US	Pentium G4400	No	Intel HD 510	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M70037US	US	i3-6100	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M70038US	US	i5-6500	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M70039US	US	i5-6500	No	Intel HD 530	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003AUS	US	i7-6700	No	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003BUS	US	Pentium G4560	No	Intel HD 610	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M7003CUS	US	i3-6100	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003DUS	US	i3-7100	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M7003EUS	US	i7-6700	No	Intel HD 530	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003FUS	US	i3-6100	No	Intel HD 530	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003GUS	US	i7-6700	No	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003HUS	US	i7-6700	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003JUS	US	i5-6500	No	Intel HD 530	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003KUS	US	Pentium G4400	No	Intel HD 510	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003LUS	US	i3-7100	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M7003MUS	US	i5-6500	No	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Optional 2nd 2.5" Bay	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10M7003NUS	US	i7-6700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003PUS	US	i3-6100	No	Intel HD 530	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003QUS	US	i7-6700	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003RUS	US	i5-6500	No	Intel HD 530	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003SUS	US	i5-6500	No	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	Optional 2nd 2.5" Bay	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003TUS	US	i3-6100	No	Intel HD 530	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M7003UUS	US	i3-7100	No	Intel HD 630	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M7006AUS	US	i5-7400	No	Intel HD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	09/17
10M7006BUS	US	i7-7700	No	Intel HD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	09/17
10M70070US	US	i5-7400	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/18
10M70071US	US	i3-7100	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	03/18

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ThinkCentre M710 Tiny Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Pentium G4400T	2 / 2	2.9G	3 MB	DDR4-2133	HD 510
Pentium G4560T	2 / 4	2.9G	3 MB	DDR4-2400	HD 610
Pentium G4600T	2 / 4	3.0G	3 MB	DDR4-2400	HD 630
Core i3-6100T	2 / 4	3.2G	3 MB	DDR4-2133	HD 530
Core i5-6500T	4 / 4	2.5G / 3.1G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8G / 3.6G	8 MB	DDR4-2133	HD 530
Core i3-7100T	2 / 4	3.4G	3 MB	DDR4-2400	HD 630
Core i5-7400T	4 / 4	2.4G / 3.0G	6 MB	DDR4-2400	HD 630
Core i5-7500T	4 / 4	2.7G / 3.3G	6 MB	DDR4-2400	HD 630
Core i5-7600T	4 / 4	2.8G / 3.7G	6 MB	DDR4-2400	HD 630
Core i7-7700T	4 / 8	2.9G / 3.8G	8 MB	DDR4-2400	HD 630

Memory

32GB max, DDR4-2400*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Optical

Some: DVD-ROM, slim (9.0mm), via USB external ODD box
Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box

Onboard SATA

One onboard SATA 6.0Gb/s connector

Media reader

None

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional video port (HDMI, VGA, 3rd DP, or USB 3.1 Type-C with DisplayPort Alternate Mode), up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel B250 Chipset

Front ports*

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports*

Four USB 3.1 Gen1 (optional external optical box or external I/O box occupies one or two specific USB 3.1 Gen1 on some models), ethernet (RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / 3rd DP / HDMI / serial / USB 3.1 Type-C Gen 1 (with DisplayPort Alternate Mode), Port 2 for serial)

I/O box*

Optional external I/O box, extends two USB 2.0, two USB 3.1 Gen1, and one serial on rear, two USB 2.0 on front, via USB cable (occupy two specific USB 3.1 Gen1 of Tiny)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC294 / optional internal speaker (1w or 2w)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®

Modem

None

Manageability

None

Security chip

TPM (Trusted Platform Module) 2.0*, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open
- Toolless HDD, SSD, memory removal
- Optional toolless chassis screw
- Optional dust filter

	Dimensions (WxDxH)	Weight (Approx.)
M710 Tiny only	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.91 lb (1.32 kg), vary by config
With VESA mount & ODD box	7.42" X 7.30" X 2.48" 188.4mm X 185.38mm X 63mm	3.66 lb (1.66 kg), vary by config
With VESA mount & I/O box	7.42" X 7.30" X 2.62" 188.4mm X 185.38mm X 66.6mm	3.66 lb (1.66 kg), vary by config

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate
- Only for Window 10
- Lenovo Companion
- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

See footnotes for more detailed information

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MR0001US	US	i7-7700T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	DVD±RW	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR0002US	US	i5-7500T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	VGA	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR0003US	US	i7-7700T	No	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR0004US	US	i5-7500T	No	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Feb 21, 2022	02/17
10MR0005US	US	i5-7500T	No	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR0006US	US	i5-7500T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	DVD±RW	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR0007US	US	i5-7500T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR0008US	US	i5-7500T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR0009US	US	i5-7500T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000AUS	US	i5-7500T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000BUS	US	i7-7700T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000CUS	US	i5-7500T	No	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000DUS	US	i5-7500T	No	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000EUS	US	i7-7700T	No	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000FUS	US	i5-7500T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000GUS	US	i5-7500T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000HUS	US	i7-7700T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000JUS	US	i5-7500T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR000KUS	US	i5-7500T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	Serial	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MR002PUS	US	i3-7100T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	VGA	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MR002QUS	US	i3-7100T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17
10MR002RUS	US	Pentium G4560T	No	Intel HD 610	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17
10MR002SUS	US	i3-7100T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17
10MR002TUS	US	i3-7100T	No	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe Opal	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17
10MR002UUS	US	i3-7100T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	Serial	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17
10MR002VUS	US	i3-7100T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17
10MR002WUS	US	i3-7100T	No	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	3165 ac, 1x1 + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17
10MR002XUS	US	i3-7100T	No	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 6, 2023	03/17
10MR003UUS	US	i5-7500T	No	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR003VUS	US	i5-7500T	No	Intel HD 630	None	8GB	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR003WUS	US	i7-7700T	No	Intel HD 630	None	8GB	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR003XUS	US	i5-7400T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR003YUS	US	i5-7400T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0040US	US	i5-7400T	No	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0041US	US	i5-7400T	No	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0042US	US	i5-7400T	No	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0043US	US	i5-7400T	No	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0044US	US	i5-7400T	No	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0045US	US	i3-6100T	No	Intel HD 530	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0046US	US	i7-6700T	No	Intel HD 530	None	8GB	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MR0047US	US	i5-6500T	No	Intel HD 530	None	8GB	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Mar 21, 2022	03/17
10MR0048US	US	i5-6500T	No	Intel HD 530	None	8GB	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0049US	US	i3-6100T	No	Intel HD 530	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004AUS	US	i3-6100T	No	Intel HD 530	None	4GBx1	128GB SSD M.2 PCIe NVMe	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004BUS	US	i5-6500T	No	Intel HD 530	None	8GB	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004CUS	US	i5-6500T	No	Intel HD 530	None	8GB	500GB 7200rpm 2.5"	DVD±RW	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004DUS	US	i7-6700T	No	Intel HD 530	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004EUS	US	i3-6100T	No	Intel HD 530	None	8GB	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004FUS	US	i5-6500T	No	Intel HD 530	None	4GBx1	500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004GUS	US	i3-6100T	No	Intel HD 530	None	8GB	500GB 7200rpm 2.5"	DVD±RW	3165 ac, 1x1 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004HUS	US	i5-6500T	No	Intel HD 530	None	8GB	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004JUS	US	i3-6100T	No	Intel HD 530	None	8GB	128GB SSD M.2 PCIe NVMe	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004KUS	US	i7-6700T	No	Intel HD 530	None	8GB	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004LUS	US	i7-6700T	No	Intel HD 530	None	8GB	500GB 7200rpm 2.5"	DVD±RW	8265 ac, 2x2 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR004MUS	US	i5-6500T	No	Intel HD 530	None	8GB	128GB SSD M.2 PCIe NVMe	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MR0062US	US	i5-7400T	No	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MR0063US	US	i5-7400T	No	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MR0064US	US	i7-7700T	No	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MR0065US	US	i7-7700T	No	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MR0066US	US	i3-7100T	No	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MR0067US	US	i3-7100T	No	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MR006UUS	US	i3-7100T	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MR006VUS	US	i3-7100T	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.0	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MR006WUS	US	i5-7400T	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MR006XUS	US	i5-7500T	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.0	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MR006YUS	US	i5-7500T	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.0	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MR0070US	US	i5-7400T	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	3165 ac, 1x1 + BT4.0	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18

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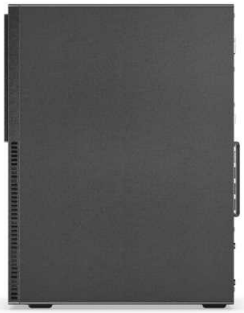

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ThinkCentre M710 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4560	2 / 4	3.5G	3 MB	DDR4-2400	HD 610
Pentium G4600	2 / 4	3.6G	3 MB	DDR4-2400	HD 630
Core i3-6100	2 / 4	3.7G	3 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2G / 3.6G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4G / 4.0G	8 MB	DDR4-2133	HD 530
Core i3-7100	2 / 4	3.9G	3 MB	DDR4-2400	HD 630
Core i5-7400	4 / 4	3.0G / 3.5G	6 MB	DDR4-2400	HD 630
Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630
Core i5-7600	4 / 4	3.5G / 4.1G	6 MB	DDR4-2400	HD 630
Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630

Memory

64GB max, UDIMM, DDR4-2400*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;
Some: **AMD Radeon™ R7 350**, DirectX 11, 2GB, PCIe 3.0 x8 adapter, one VGA, one HDMI, 75 watts, occupies two slots;
Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz

Monitor Cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel B250 Chipset

Front ports*

Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)

Rear ports*

Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, or HDMI on optional graphics on some models

Rear audio ports*

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394*

None

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111GN, Wake on LAN®

Modem

None

Manageability

None

Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tower (15L), black color, metal case
- *(WxDxH)* 5.7" X 11.5" X 14.4"; 145mm X 292.7mm X 366mm
- Approx. 14.3 lb (6.5 kg), weight may vary by configuration
- Optional dust filter

Bay 1: Slim external ODD bay
Bay 2: 3.5", 1" high, internal, HDD/SSD
Bay 3: 3.5", 1" high, internal, HDD/SSD
Slot 1: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x16*
Slot 2: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1*
Slot 3: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1*
Slot 4: no slot, only bracket for optional port extension*
M.2 card slots: Two (one for WLAN, one for SSD/Optane)
* Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 slot (x4 card), optional rear 2x USB2.0 / parallel occupies one expansion slot

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate

- Only for Window 10

- Lenovo Companion

- Only for Window 7

- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10M9000EUS	US	i7-7700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000FUS	US	i5-7400	No	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000GUS	US	i7-7700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000HUS	US	i5-7400	No	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000JUS	US	i5-7400	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000KUS	US	i7-7700	No	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000LUS	US	i7-7700	No	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000MUS	US	i5-7400	No	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000NUS	US	i5-7400	No	Intel HD 630	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000PUS	US	i5-7400	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000QUS	US	i7-7700	No	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000RUS	US	i5-7400	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000SUS	US	i5-7400	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000TUS	US	i7-7700	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9000UUS	US	i7-7700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	02/17
10M9002UUS	US	i3-6100	No	Intel HD 530	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9002VUS	US	i3-6100	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9002WUS	US	Pentium G4400	No	Intel HD 510	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9002XUS	US	i5-6500	No	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9002YUS	US	i7-6700	No	Intel HD 530	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10M90030US	US	i7-6700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M90031US	US	i5-6500	No	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M90032US	US	i5-7400	No	Intel HD 630	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M90033US	US	i7-6700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M90034US	US	i7-6700	No	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M90035US	US	i3-7100	No	Intel HD 630	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M90036US	US	i5-6500	No	Intel HD 530	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M90037US	US	i3-7100	No	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M90038US	US	i5-6500	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	3165 ac, 1x1 + BT4.1	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M90039US	US	i5-6500	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9003AUS	US	i3-6100	No	Intel HD 530	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9003BUS	US	i3-6100	No	Intel HD 530	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9003CUS	US	i3-7100	No	Intel HD 630	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M9003DUS	US	Pentium G4560	No	Intel HD 610	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M9003EUS	US	i7-6700	No	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9003FUS	US	i7-6700	No	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9003GUS	US	i5-6500	No	Intel HD 530	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9003HUS	US	i5-6500	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9003JUS	US	i5-6500	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17
10M9003KUS	US	i7-6700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10M9003LUS	US	i3-7100	No	Intel HD 630	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	03/17
10M9005NUS	US	i5-7400	No	Intel HD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	03/18
10M9005PUS	US	i5-7400	No	Intel HD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	03/18

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ThinkCentre M710e SFF Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G3900	2 / 2	2.8G	2 MB	DDR4-2133	HD 510
Celeron G3930	2 / 2	2.9G	3 MB	DDR4-2133	HD 610
Pentium G4400	2 / 2	3.3G	3 MB	DDR4-2133	HD 510
Pentium G4500	2 / 2	3.5G	3 MB	DDR4-2133	HD 530
Pentium G4560	2 / 4	3.5G	3 MB	DDR4-2400	HD 610
Pentium G4600	2 / 4	3.6G	3 MB	DDR4-2400	HD 630
Core i3-6100	2 / 4	3.7G	3 MB	DDR4-2133	HD 530
Core i5-6400	4 / 4	2.7G / 3.3G	6 MB	DDR4-2133	HD 530
Core i5-6500	4 / 4	3.2G / 3.6G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4G / 4.0G	8 MB	DDR4-2133	HD 530
Core i3-7100	2 / 4	3.9G	3 MB	DDR4-2400	HD 630
Core i3-7300	2 / 4	4.0G	4 MB	DDR4-2400	HD 630
Core i5-7400	4 / 4	3.0G / 3.5G	6 MB	DDR4-2400	HD 630
Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630
Core i5-7600	4 / 4	3.5G / 4.1G	6 MB	DDR4-2400	HD 630
Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630

Memory

32GB max, UDIMM, DDR4-2400*, two 288-pin DIMM sockets, non-ECC, dual-channel capable
*System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Two onboard SATA 6.0Gb/s connectors

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, one DisplayPort™, supports 2 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2160 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel B250 Chipset

Front ports*

Two USB 3.1 Gen1, microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports*

Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, one DisplayPort, optional external USB to PS/2 ports cable (for PS/2 keyboard / mouse); additional DisplayPort on optional graphics on some models

Rear audio ports*

Line-out jack (3.5mm)

IEEE 1394*

None

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC233 / internal speaker (1.5 watt)

WLAN[13]

None

Bluetooth™

None

Ethernet

Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®

Modem

None

Manageability

None

Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional smart cable clip to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black

Mechanical

- SFF (7.4L), black color, metal case
- *(WxDxH)* 3.9" X 11.9" X 10.8"; 100mm X 303.5mm X 273.5mm
- Approx. 9.37 lb (4.25 kg), weight may vary by configuration

Bay 1: Slim external ODD bay
Bay 2: 3.5", 1" high, internal, supports 2.5" or 3.5" HDD/SSD (2.5 to 3.5 bracket comes with disk)
Slot 1: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x16*
Slot 2: low-profile (length < 152mm, height < 64mm), PCIe 3.0 x1*
M.2 card slots: one for SSD
*Optional rear 2x USB2.0 / parallel occupies one expansion slot

Floor Stand

Optional system floor stand for vertical orientation

Packaging

- *(WxDxH)* 7.7" X 15.4" X 19.7"; 195mm X 390mm X 500mm
- Cross weight (approx.) 14.22 lb (6.45 kg)

Power supply

Some: 180 watts, autosensing, 85% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit(not available with 7th Gen Intel processor)

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD, DVD±RW)
- Cyberlink PowerDVD Create (DVD±RW)

- Only for Window 10
- Lenovo Companion

- Only for Window 7
- Lenovo Solution Center
- Lenovo System Update
- Create Recovery Media
- Adobe® Reader®

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, RoHS-compliant, WEEE

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10UR001JUS	US	i5-7400	No	Intel HD 630	None	4GBx2	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	USB / USB	Floor Stand	180W 85%	Win10 Pro 64	1-year, Onsite	02/18
10UR001LUS	US	i5-7400	No	Intel HD 630	None	4GBx2	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	USB / USB	Floor Stand	180W 85%	Win10 Pro 64	1-year, Onsite	02/18
10UR001MUS	US	i3-7100	No	Intel HD 630	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	USB / USB	Floor Stand	180W 85%	Win10 Pro 64	1-year, Onsite	02/18

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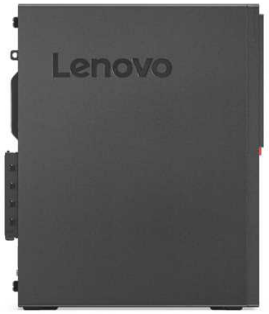

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ThinkCentre M715 SFF Platform Specifications

Processor

AMD A6 / A8 / A10 / A12 series APU and Ryzen 3 / 5 / 7 series processor

APU / processor	Cores / Threads	Frequency (Base/Max)	L2 Cache	Integrated Graphics
Ryzen 3 PRO 1200	4 / 4	3.1 / 3.4	2MB	None
Ryzen 3 PRO 1300	4 / 4	3.5 / 3.7	2MB	None
Ryzen 5 PRO 1500	4 / 8	3.5 / 3.7	2MB	None
Ryzen 7 PRO 1700	8 / 16	3.0 / 3.7	4MB	None
PRO A6-8570	2 / 2	3.5 / 3.8	1MB	Radeon R5 Series
PRO A10-8770	4 / 4	3.5 / 3.8	2MB	Radeon R7 Series
PRO A12-8870	4 / 4	3.7 / 4.2	2MB	Radeon R7 Series
PRO A6-9500	2 / 2	3.5 / 3.8	1MB	Radeon R5 Series
PRO A8-9600	4 / 4	3.1 / 3.4	2MB	Radeon R7 Series
PRO A10-9700	4 / 4	3.5 / 3.8	2MB	Radeon R7 Series
PRO A12-9800	4 / 4	3.8 / 4.2	2MB	Radeon R7 Series

Memory

64GB max, UDIMM, DDR4-2400, four 288-pin DIMM sockets, non-ECC, dual-channel capable*
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 7-in-1 media reader

Graphics

AMD Radeon™ Graphics in processor (not for AMD Ryzen processor), uses main memory, DirectX® 12, one VGA, two DisplayPort™ (Onboard VGA and DP ports are invalid on the models with AMD Ryzen processor), supports 3 independent displays, works along with AMD discrete graphics to support more displays;
Max resolution: 4096x2160 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

AMD B350 Chipset

Front ports*

Two USB 3.1 Gen2, two USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)

Rear ports*

Two USB 3.1 Gen1, two USB 2.0, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA and two DisplayPort (not available on models with AMD Ryzen processor), two PS/2 ports (keyboard / mouse);
additional DisplayPort on optional graphics on some models

Rear audio ports*

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394*

None

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN

Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®

Modem

None

Manageability

DASH

Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black

Mechanical

- SFF (8.4L), black color; metal case
- *(WxDxH)* 3.6" X 11.4" X 13.5"; 92.5mm X 290.5mm X 343.5mm
- Approx. 13.2 lb (6.0 kg), weight may vary by configuration
- Toolless cover, disk, optical removal
- Optional dust filter

Bay 1: Slim external ODD bay
Bay 2: 3.5", nternal, HDD/SSD
Bay 3: 2.5", internal, HDD/SSD (bay only comes with 2.5" 2nd disk)
Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16*
Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 2.0 x1*
Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 2.0 x1*
Slot 4: no slot, only bracket for optional port extension*
M.2 card slots: two (one for WLAN, one for SSD)
* Optional front USB3.1 Type-C x2 module occupies PCIe x16 slot (x4 card), optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (Only available with Pro A6/A10/A12-8xxx APUs)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate

- Only for Window 10

- Lenovo Companion

- Only for Window 7

- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10MB0018US	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB0019US	US	AMD PRO A12-9800	No	AMD R7 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001AUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001BUS	US	AMD PRO A12-9800	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001CUS	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001DUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001EUS	US	AMD PRO A6-9500	No	AMD R5 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001FUS	US	AMD PRO A6-9500	No	AMD R5 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001GUS	US	AMD PRO A12-9800	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001HUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001JUS	US	AMD PRO A6-9500	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001KUS	US	AMD PRO A6-9500	No	AMD R5 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001LUS	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001MUS	US	AMD PRO A12-9800	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001NUS	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001PUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001QUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001RUS	US	AMD PRO A12-9800	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB001SUS	US	AMD PRO A6-8570	No	AMD R5 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB001TUS	US	AMD PRO A12-8870	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10MB001UUS	US	AMD PRO A6-8570	No	AMD R5 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB001VUS	US	AMD PRO A10-8770	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB001WUS	US	AMD PRO A10-8770	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB001XUS	US	AMD PRO A12-8870	No	AMD R7 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB001YUS	US	AMD PRO A10-8770	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0020US	US	AMD PRO A12-8870	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0021US	US	AMD PRO A10-8770	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0022US	US	AMD PRO A6-8570	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0023US	US	AMD PRO A6-8570	No	AMD R5 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0024US	US	AMD PRO A12-8870	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0025US	US	AMD PRO A10-8770	No	AMD R7 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0026US	US	AMD PRO A12-8870	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0027US	US	AMD PRO A10-8770	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0028US	US	AMD PRO A10-8770	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB0029US	US	AMD PRO A6-8570	No	AMD R5 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB002AUS	US	AMD PRO A12-8870	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB002BUS	US	AMD PRO A10-8770	No	AMD R7 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB002CUS	US	AMD PRO A12-8870	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	07/17
10MB002DUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB002EUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10MB002FUS	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB002GUS	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB002HUS	US	AMD PRO A12-9800	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB002JUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB002KUS	US	AMD PRO A12-9800	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB002LUS	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB002MUS	US	AMD PRO A6-9500	No	AMD R5 Graphics	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	06/17
10MB002PUS	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002QUS	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002RUS	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002SUS	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002TUS	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002UUS	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	4GBx1	128GB SSD	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002VUS	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	8GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002WUS	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	8GBx1	128GB SSD	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002XUS	US	AMD Ryzen 7 PRO 1700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB002YUS	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0030US	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0031US	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0032US	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10MB0033US	US	AMD Ryzen 7 PRO 1700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0034US	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0035US	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0036US	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	8GBx1	128GB SSD	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0037US	US	AMD Ryzen 7 PRO 1700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0038US	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB0039US	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB003AUS	US	AMD Ryzen 7 PRO 1700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB003BUS	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	4GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB003CUS	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	4GBx1	128GB SSD	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB003DUS	US	AMD Ryzen 5 PRO 1500	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB003EUS	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB003FUS	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB003GUS	US	AMD Ryzen 7 PRO 1700	No	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17
10MB003HUS	US	AMD Ryzen 3 PRO 1200	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	RTL8821AE ac, 1x1 + BT4.0	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	07/17

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ThinkCentre M715 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor

AMD A6, A10, or A12 series APUs

APU	Cores	Frequency Base/Max	L2 Cache	Memory Types	Integrated Graphics
PRO A6-9500E	2	3.0 / 3.4 GHz	1 MB	DDR4-2400	Radeon R5 Series
PRO A10-9700E	4	3.0 / 3.5 GHz	2 MB	DDR4-2400	Radeon R7 Series
PRO A12-9800E	4	3.1 / 3.8 GHz	2 MB	DDR4-2400	Radeon R7 Series
PRO A6-8570E	2	3.0 / 3.4 GHz	1 MB	DDR4-2400	Radeon R5 Series
PRO A10-8770E	4	2.8 / 3.5 GHz	2 MB	DDR4-2400	Radeon R7 Series
PRO A12-8870E	4	2.9 / 3.8 GHz	2 MB	DDR4-2400	Radeon R7 Series

Memory

32GB max, DDR4 2400, two 260-pin SO-DIMM sockets, dual-channel capable
*16GB single SO-DIMM memory is only available via special bid models

Disk

Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / SATA interface or PCIe NVMe interface

Optical

Some: DVD-ROM, 9.0mm high, via USB external ODD box
Some: DVD±RW, 9.0mm high, via USB external ODD box

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles);
Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

AMD B300 Chipset

Front ports*

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports*

One USB 3.0 and three USB 2.0 (optional external optical box or I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone

I/O box*

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2, via USB port (occupy one specific USB 2.0 of M715q Tiny)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC233-CG / internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®

Modem

None

Manageability

DASH 1.0/1.1

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Fullsize USB Keyboard (USB connector), Lenovo logo
Some: Lenovo New Slim USB Keyboard (USB connector), black, Lenovo logo

Mouse

Some: USB Optical Wheel Mouse, black, Lenovo logo

Mechanical

Tiny (1L), black color; metal case
M715 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration
With VESA mount & ODD box:
7.42" W X 7.30" D X 2.48" H
188.4mm W X 185.38mm D X 63mm H
4.12 lb (1.87 kg), weight may vary by configuration
With VESA mount & I/O box:
7.42" W X 7.30" D X 2.62" H
188.4mm W X 185.38mm D X 66.6mm H
3.53 lb (1.6 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available

Preload

Preloaded operating system
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

Preloaded applications (only some listed)
- WIndows 10 only
- Lenovo Companion
- Microsoft Office preloaded; purchase a product key to activate

- Windows 7 only
- Lenovo Solution Center
- ThinkVantage System Update
- Create Recovery Media
- Lenovo ThinkVantage Tools
- CyberlinkPowerDVD Create(DVD±RW)
- Microsoft Office preloaded; purchase a product key to activate
- Adobe® Reader®

Environment

ENERGY STAR® 6.1*, EPEAT™ Gold rating* (*Not for non-OS models); ErP Lot 3; GREENGUARD®; RoHS-compliant

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	OS	War-ranty	Ann Date (m/y)
10M30001US	US	AMD PRO A6-9500E	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	11/16
10M30002US	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	Serial	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M30003US	US	AMD A10-9700E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	VGA	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M30004US	US	AMD A10-9700E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M30005US	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M30006US	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M30007US	US	AMD PRO A6-9500E	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M30008US	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M30009US	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M3000AUS	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	4GBx1	128GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M3000BUS	US	AMD A10-9700E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M3000CUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	4GBx1	128GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M3000DUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	DVD±RW	RTL8821AE ac, 1x1 + BT4.0	HDMI	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	10/16
10M3000NUS	US	AMD PRO A12-8870E	No	AMD R7 Graphics	None	8GBx2	512GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17
10M3000PUS	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx2	512GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	01/17
10M3000QUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17
10M3000RUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17
10M3000SUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	DVD±RW	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17
10M3000TUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	OS	War-ranty	Ann Date (m/y)
10M3000UUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17
10M3000VUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17
10M3000WUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	01/17
10M3000XUS	US	AMD PRO A12-8870E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17
10M3000YUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17
10M30010US	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	01/17
10M30011US	US	AMD PRO A12-8870E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 PCIe NVMe	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	01/17

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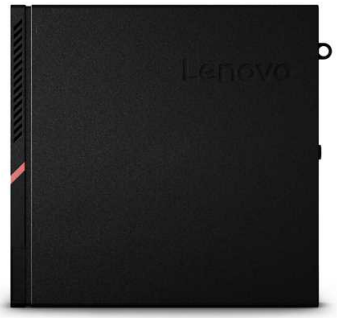

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ThinkCentre M715 Tiny (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor

AMD Athlon, A6, A10, A12, or Ryzen processor

Processor	Cores / Threads	Frequency Base/Max	L2 Cache	Memory Support (Up to)	Integrated Graphics
Athlon 200GE	2 / 4	3.2 GHz	1 MB	DDR4-2933	Radeon Vega 3
Athlon PRO 200GE	2 / 4	3.2 GHz	1 MB	DDR4-2933	Radeon Vega 3
PRO A6-8570E	2 / 2	3.0 / 3.4 GHz	1 MB	DDR4-2400	Radeon R5
PRO A10-8770E	4 / 4	2.8 / 3.5 GHz	2 MB	DDR4-2400	Radeon R7
PRO A6-9500E	2 / 2	3.0 / 3.4 GHz	1 MB	DDR4-2400	Radeon R5
PRO A10-9700E	4 / 4	3.0 / 3.5 GHz	2 MB	DDR4-2400	Radeon R7
PRO A12-9800E	4 / 4	3.1 / 3.8 GHz	2 MB	DDR4-2400	Radeon R7
Ryzen 3 2200GE	4 / 4	3.2 / 3.6 GHz	2 MB	DDR4-2933	Radeon Vega 8
Ryzen 3 PRO 2200GE	4 / 4	3.2 / 3.6 GHz	2 MB	DDR4-2933	Radeon Vega 8
Ryzen 5 2400GE	4 / 8	3.2 / 3.8 GHz	2 MB	DDR4-2933	Radeon RX Vega 11
Ryzen 5 PRO 2400GE	4 / 8	3.2 / 3.8 GHz	2 MB	DDR4-2933	Radeon RX Vega 11

Memory

32GB max, DDR4 2666*, two 260-pin SO-DIMM sockets, dual-channel capable
* System automatically clocks down for the lower memory controller

Disk

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s

Optical

Some: DVD-ROM, 9.0mm high, via USB external ODD box
Some: DVD±RW, 9.0mm high, via USB external ODD box

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Graphics

AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles, and Athlon / Athlon PRO only support 2 displays);
Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DP to VGA dongle, DP to DVI-D dongle, or DP to HDMI 1.4 dongle

Chipset

AMD B300 Chipset

Front ports* (Std.)

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports* (Std.)

One USB 3.1 Gen1 and three USB 2.0, ethernet (RJ-45), two DisplayPort, one headphoneone

Rear ports* (Opt.)

One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed
** Not support VGA, 3rd DP, HDMI for the models with Athlon / Athlon PRO

Audio support

High Definition (HD) Audio, Realtek ALC233-VB2 / internal speaker (1.5 watt)

WLAN

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter

Bluetooth

* Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1

Ethernet

Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®

Manageability

DASH 1.0/1.1

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless chassis screw)
- Optional dust filter

M715 Gen2 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.91 lb (1.32 kg), weight may vary by configuration
With VESA mount & ODD box:
7.42" W X 7.30" D X 2.48" H
188.4mm W X 185.38mm D X 63mm H
3.66 lb (1.66 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty

1-year or 3-year, limited onsite service / service upgrades available

Preload

Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64-bit

Preloaded applications (only some listed)
- WIndows 10 only
- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

- Windows 7 only
- Lenovo Solution Center
- ThinkVantage System Update
- Create Recovery Media
- Microsoft Office preloaded; purchase a product key to activate
- Adobe® Reader®

Environment

ENERGY STAR® 7.0*, EPEAT™ Gold rating* (*Not for non-OS models); ErP Lot 3; ; RoHS-compliant

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	OS	War-ranty	Ann Date (m/y)
10VG0005US	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0006US	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0007US	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0008US	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0009US	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000AUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000BUS	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000CUS	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000DUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000EUS	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000FUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000GUS	US	AMD PRO A6-9500E	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000HUS	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000JUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000KUS	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000LUS	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000MUS	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000NUS	US	AMD PRO A6-9500E	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	OS	War-ranty	Ann Date (m/y)
10VG000PUS	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000QUS	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000RUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000SUS	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000TUS	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000UUS	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000VUS	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000WUS	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000XUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG000YUS	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0010US	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0011US	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0012US	US	AMD PRO A12-9800E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0013US	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0014US	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	4GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0015US	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0016US	US	AMD PRO A10-9700E	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG0017US	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	500GB 7200rpm 2.5"	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	OS	War-ranty	Ann Date (m/y)
10VG001GUS	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18
10VG001HUS	US	AMD Ryzen 5 PRO 2400GE	No	AMD RX Vega 11 Graphics	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Win10 Pro 64	3-year, Onsite	07/18

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ThinkCentre M715 Tiny Thin Client Platform Specifications

Processor

AMD A6, A10, or A12 series APUs

APU	Cores	Frequency Base/Max	L2 Cache	Memory Types	Integrated Graphics
PRO A6-8570E	2	3.0 / 3.4 GHz	1 MB	DDR4-2400	Radeon R5 Series
PRO A10-8770E	4	2.8 / 3.5 GHz	2 MB	DDR4-2400	Radeon R7 Series
PRO A12-8870E*	4	2.9 / 3.8 GHz	2 MB	DDR4-2400	Radeon R7 Series

*PRO A12-8870E (support Windows 10 IOT only) is only available via special bid models

Memory

4GB max, DDR4 2400, two 260-pin SO-DIMM sockets

Disk

Some: 256GB Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"*
*256GB SATA (support Windows 10 IOT only) is only available via special bid models
Some: 32GB M.2 Solid State Drive (SSD) / SATA interface
Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe interface

Optical

None

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Media reader

None

Graphics

AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles);
Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz; 1920x1200 (VGA)@60Hz

DP cable

Optional DP to VGA, DP to DVI-D (single link), or DP to HDMI 1.4 dongle

Chipset

AMD B300 Chipset

Front ports*

Two USB 3.0 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports*

One USB 3.0 and three USB 2.0 (optional external optical box or I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), two DisplayPort, one optional port (VGA, 3rd DP, HDMI, or serial on some models), one headphone
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

I/O box

None

Audio support

High Definition (HD) Audio, Realtek ALC233-CG / internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821AE (dual band), Wi-Fi + Bluetooth 4.0 combo adapter, 1x1

Bluetooth™

Some: Bluetooth 4.0 or 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®

Modem

None

Manageability

DASH 1.0/1.1

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Fullsize USB Keyboard (USB connector), Lenovo logo

Mouse

Some: USB Optical Wheel Mouse, black, Lenovo logo

Mechanical

Tiny (1L), black color; metal case
M715 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.9 lb (1.3 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty[3]

Some: 1-year or 3-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available

Preload

Preloaded operating system
Some: Windows Embedded Standard 7 V2 (WES 7 V2)
Some: Windows 10 IoT Enterprise
Some: LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.1*, EPEAT™ Gold rating* (*not for non-OS models); ErP Lot 3; GREENGUARD®; RoHS-compliant

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	OS	War-ranty	Ann Date (m/y)
10RB0000US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB0001US	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB0002US	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	HDMI	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB0003US	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB0004US	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	Serial	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB0005US	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB0006US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	Serial	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB0007US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	VGA	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB0008US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	HDMI	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB0009US	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	VGA	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB000AUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB000BUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	Serial	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB000CUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	VGA	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB000DUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	Serial	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB000EUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB000FUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB000GUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	HDMI	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB000HUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	Serial	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB000JUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB000KUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	OS	War-ranty	Ann Date (m/y)
10RB000LUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	VGA	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Windows 10 IoT Enterprise	3-year, Onsite	07/17
10RB000MUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB000NUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	HDMI	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB000PUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	HDMI	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB000QUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	Serial	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB000RUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB000SUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	VGA	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB000TUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	3rd DP	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17
10RB000UUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	HDMI	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	LeTOS V2	3-year, Onsite	07/17
10RB000VUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	RTL8821AE ac, 1x1 + BT4.0	VGA	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	WES 7 V2	3-year, Onsite	07/17

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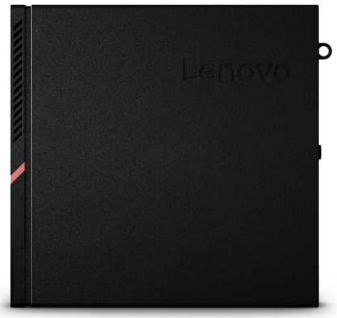

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ThinkCentre M715 Tiny Thin Client (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor

AMD Athlon, A6, A10, or Ryzen processor

APU	Cores / Threads	Frequency Base/Max	L2 Cache	Memory Support (Up to)	Integrated Graphics
Athlon PRO 200GE	2 / 4	3.2 GHz	1 MB	DDR4-2933	Radeon Vega 3
PRO A6-8570E	2 / 2	3.0 / 3.4 GHz	1 MB	DDR4-2400	Radeon R5
PRO A10-8770E	4 / 4	2.8 / 3.5 GHz	2 MB	DDR4-2400	Radeon R7
Ryzen 3 PRO 2200GE	4 / 4	3.2 / 3.6 GHz	2 MB	DDR4-2933	Radeon Vega 8

Memory

8GB max, DDR4 2666*, two 260-pin SO-DIMM sockets, dual-channel capable
* System automatically clocks down for the lower memory controller

Disk

Some: 32GB M.2 Solid State Drive (SSD) / SATA interface
Some: 128GB M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 2

Optical

None

Onboard SATA

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Graphics

AMD Radeon™ Graphics in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional port (HDMI, VGA, or 3rd DP), supports 3 independent displays (supports maximum of 2 concurrent HDMI/DVI displays when using HDMI port or DP to DVI/HDMI dongles, and Athlon / Athlon PRO only support 2 displays);
Max resolution: 4096x2160 (DP)@60Hz; 4096x2160 (HDMI)@30Hz;
1920x1200 (VGA)@60Hz

Monitor cable

Optional DP to VGA dongle, DP to DVI-D dongle, or DP to HDMI 1.4 dongle

Chipset

AMD B300 Chipset

Front ports* (Std.)

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports* (Std.)

One USB 3.1 Gen1 and three USB 2.0, ethernet (RJ-45), two DisplayPort, one headphoneone

Rear ports* (Opt.)

One optional port (VGA**, 3rd DP**, HDMI**, or serial on some models)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed
** Not support VGA, 3rd DP, HDMI for the models with Athlon / Athlon PRO

Audio support

High Definition (HD) Audio, Realtek ALC233-VB2 / internal speaker (1.5 watt)

WLAN

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377 (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter

Bluetooth

* Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1

Ethernet

Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®

Manageability

DASH 1.0/1.1

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless chassis screw)
- Optional dust filter

M715 Gen2 Tiny only:
7.05" W X 7.20" D X 1.36" H
179mm W X 182.9mm D X 34.5mm H
2.91 lb (1.32 kg), weight may vary by configuration

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty

1-year or 3-year, limited onsite service / service upgrades available

Preload

Preloaded operating system
Some: Windows Embedded Standard 7 V2 (WES 7 V2)
Some: Windows 10 IoT Enterprise
Some: LeTOS V2 (Lenovo Terminal Operating System, Linux-based)

Environment

ENERGY STAR® 6.1*, EPEAT™ Gold rating* (*not for non-OS models); ErP Lot 3; RoHS-compliant

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock)

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	OS	War-ranty	Ann Date (m/y)
10VL0003US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	LeTOS V2	3-year, Onsite	11/18
10VL0004US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	WES 7 V2	3-year, Onsite	08/18
10VL0005US	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	LeTOS V2	3-year, Onsite	11/18
10VL0006US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	WES 7 V2	3-year, Onsite	08/18
10VL0007US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL0008US	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	LeTOS V2	3-year, Onsite	11/18
10VL0009US	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	LeTOS V2	3-year, Onsite	11/18
10VL000AUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	LeTOS V2	3-year, Onsite	11/18
10VL000BUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	WES 7 V2	3-year, Onsite	08/18
10VL000CUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	LeTOS V2	3-year, Onsite	11/18
10VL000DUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000EUS	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000FUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000GUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	LeTOS V2	3-year, Onsite	11/18
10VL000HUS	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000JUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000KUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000LUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000MUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000NUS	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	Serial	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	LeTOS V2	3-year, Onsite	11/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	OS	War-ranty	Ann Date (m/y)
10VL000PUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	VGA	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000QUS	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000RUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	QCA6174A ac, 2x2 + BT4.2	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000SUS	US	AMD PRO A10-8770E	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	QCA6174A ac, 2x2 + BT4.2	Integrated	HDMI	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	Floor Stand	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	08/18
10VL000V++	US	AMD PRO A6-8570E	No	AMD R5 Graphics	None	4GBx1	32GB SSD M.2 SATA	None	None	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	None	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	03/19
10VL000W++	US	AMD Ryzen 3 PRO 2200GE	No	AMD Vega 8 Graphics	None	8GBx1	32GB SSD M.2 SATA	None	None	Integrated	3rd DP	Chassis Intrusion Switch	None	None	None	1.5Wx1	None	None	None	USB / USB	Windows 10 IoT Enterprise	3-year, Onsite	03/19

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ThinkCentre M720 SFF Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900	2 / 2	3.1G	2 MB	DDR4-2400	UHD 610
Celeron G4920	2 / 2	3.2G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400	2 / 4	3.7G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500	2 / 4	3.8G	4 MB	DDR4-2400	UHD 630
Pentium Gold G5600	2 / 4	3.9G	4 MB	DDR4-2400	UHD 630
Core i3-8100	4 / 4	3.6G	6 MB	DDR4-2400	UHD 630
Core i3-8300	4 / 4	3.7G	8 MB	DDR4-2400	UHD 630
Core i5-8400	6 / 6	2.8G / 4.0G	9 MB	DDR4-2666	UHD 630
Core i5-8500	6 / 6	3.0G / 4.1G	9 MB	DDR4-2666	UHD 630
Core i5-8600	6 / 6	3.1G / 4.3G	9 MB	DDR4-2666	UHD 630
Core i7-8700	6 / 12	3.2G / 4.6G	12 MB	DDR4-2666	UHD 630

Memory

64GB max, UDIMM, DDR4-2666, four 288-pin DIMM sockets, non-ECC, dual-channel capable*
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* M.2 SSD (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 7-in-1 media reader

Graphics

Intel UHD Graphics 610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

Monitor cable

Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

Chipset

Intel B360 Chipset

Front ports* (Std.)

2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)

Front ports* (Opt.)

Optional: 1x media reader

Rear ports* (Std.)

4x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)

Rear ports* (Opt.)

Optional: 2x USB 3.1 Gen1 via PCI2 x1**, 2x USB 3.1 Type-C Gen2 via PCIe x4** (special bid only), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIe x1, 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), additional RJ-45 and video ports available on optional graphics or ethernet card
* Depending on many factors, actual data transfer speed may be lower than theoretical speed
** Choose either 2x USB 3.1 Gen1 or 2x USB 3.1 Type-C Gen2

Audio support

High Definition (HD) Audio, Realtek ALC233VB2 / internal speaker (2 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®

Ethernet (Opt.)

Some: Intel Ethernet Server Adapter I350-T4*, gigabit ethernet, 4x RJ-45, PCIe x4
Some: Bitland BN8E88*, gigabit ethernet, PCIe x1 (only available via special bid)
* Choose either I350-T4 or BN8E88

Manageability

None

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Optional cable lock to physically lock both keyboard and mouse
- Optional chassis intrusion switch
- Optional chassis E-Lock (special bid)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Keyboard (PS/2 connector), black (only available via special bid)

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

Mechanical

- SFF (8.4L), black color; metal case
- *(WxDxH)* 3.64" X 11.44" X 13.52"; 92.5mm X 290.5mm X 343.5mm
- Approx. 13.24 lb (6.0 kg), weight may vary by configuration
- Toolless cover, disk, optical, and extension card removal
- Optional dust filter

Bay 1: Slim external ODD bay
Bay 2: 3.5", 1" high, internal, HDD/SSD
Bay 3: 2.5", internal, HDD/SSD (optional bay)
Slot 1: low-profile (length < 147mm, height < 68.9mm), PCIe 3.0 x16
Slot 2: low-profile (length < 147mm, height < 68.9mm), PCIe 3.0 x1
Slot 3: low-profile (length < 147mm, height < 68.9mm), PCIe 3.0 x1
Slot 4: no slot, only bracket for optional port extension
M.2 card slots: Two (one for WLAN, one for SSD/Optane)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU
Some: 260 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, TCO, TUV low noise verified (coming soon, on some models), RoHS-compliant

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optional Bay	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Chassis E-Lock	Cable Lock	Speaker	Dust Filter	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	Ann Date (mm/yy)
10ST001QUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST001RUS	US	i5-8400	No	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST001TUS	US	i3-8100	No	Intel UHD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST001UUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST001VUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST001WUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST001XUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST001YUS	US	i7-8700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0020US	US	i5-8400	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0021US	US	Pentium Gold G5400	No	Intel UHD 610	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0022US	US	i3-8100	No	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0023US	US	Pentium Gold G5400	No	Intel UHD 610	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0024US	US	i5-8400	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0025US	US	i3-8100	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0026US	US	i3-8100	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0027US	US	i3-8100	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0028US	US	i7-8700	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST0029US	US	i7-8700	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST002AUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST002BUS	US	i7-8700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optional Bay	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Chassis E-Lock	Cable Lock	Speaker	Dust Filter	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	Ann Date (mm/yy)
10ST002CUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST002DUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST002FUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST003PUS	US	i7-8700	No	Intel UHD 630	None	16GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST003QUS	US	i7-8700	No	Intel UHD 630	None	16GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10ST003RUS	US	i7-8700	No	Intel UHD 630	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10ST004SUS	US	i5-8400	No	Intel UHD 630	None	16GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	01/19

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ThinkCentre M720 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900T	2 / 2	2.9G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400T	2 / 4	3.1G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500T	2 / 4	3.2G	4 MB	DDR4-2400	UHD 630
Core i3-8100T	4 / 4	3.1G	6 MB	DDR4-2400	UHD 630
Core i3-8300T	4 / 4	3.2G	8 MB	DDR4-2400	UHD 630
Core i5-8400T	6 / 6	1.7G / 3.3G	9 MB	DDR4-2666	UHD 630
Core i5-8500T	6 / 6	2.1G / 3.5G	9 MB	DDR4-2666	UHD 630
Core i5-8600T	6 / 6	2.3G / 3.7G	9 MB	DDR4-2666	UHD 630
Core i7-8700T	6 / 12	2.4G / 4.0G	12 MB	DDR4-2666	UHD 630

Memory

32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical

Some: DVD-ROM, slim (9.0mm), via USB external ODD box
Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box

Onboard SATA

One onboard SATA 6.0Gb/s connector

Graphics

Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Type-C Gen1 with DisplayPort function), up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (onboard HDMI)@24Hz; 2048x1536 (VGA)@50Hz

Monitor cable

Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

Chipset

Intel B360 Chipset

Front ports* (Std.)

one USB 3.1 Gen1 (Always On and fast charge), one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports* (Std.)

2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x ethernet (RJ-45), 1x DisplayPort, 1x HDMI

Rear ports* (Opt.)

Two optional ports (mutually exclusive with PCIe card): Port 1 for VGA / 2nd DP / 2nd HDMI / serial / USB 3.1 Type-C Gen 1 with DP function); Port 2 for serial; Optional ports via PCIe card: 2x USB 3.1 Gen1 via PCIe x1, 4x serial (9-pin) via PCIe x1
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

Realtek ALC233VB2 / optional internal speaker (1.5 watt or 2 watt)

WLAN

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

Bluetooth

Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®

Ethernet (Opt.)

Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4

Manageability

None

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Chassis intrusion switch
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless chassis screw)
- Toolless HDD, SSD, memory removal
- Optional dust filter

one 2.5" bay for HDD/SSD, one PCIe 3.0 x8 slot (low-profile), two M.2 slots (one for WLAN, one for M.2 SSD), 2.5" HDD/SSD and PCIe card are mutually exclusive

	Dimensions (WxDxH)	Weight (Approx.)
Tiny only	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.91 lb (1.32 kg), vary by config
With VESA mount & ODD box	7.42" X 7.30" X 2.48" 188.4mm X 185.38mm X 63mm	3.66 lb (1.66 kg), vary by config

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 65 watts AC/DC adapter, autosensing, 88% PSU
Some: 90 watts AC/DC adapter, autosensing, 88% PSU
Some: 135 watts AC/DC adapter, autosensing, 88% PSU

Limited warranty

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)
- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment

ENERGY STAR® 7.0, EPEAT™ Gold rating (North America), ErP Lot 3, TCO, TUV ultra low noise verified (coming soon, on some models), RoHS-compliant

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10T7001GUS	US	i3-8100T	No	Intel UHD 630	None	4GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001HUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001JUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001MUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001NUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001PUS	US	Pentium Gold G5400T	No	Intel UHD 610	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001QUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001RUS	US	Pentium Gold G5400T	No	Intel UHD 610	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001SUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001TUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10T7001UUS	US	i3-8100T	No	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10T7001WUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7001XUS	US	i3-8100T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70020US	US	i5-8400T	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10T70022US	US	i5-8400T	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70023US	US	i3-8100T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70025US	US	i5-8400T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70027US	US	i7-8700T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10T70028US	US	i5-8400T	No	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10T7002AUS	US	i3-8100T	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10T7002BUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	VGA	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7002CUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7002DUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7002EUS	US	Pentium Gold G5400T	No	Intel UHD 610	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7002FUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7002GUS	US	Pentium Gold G5400T	No	Intel UHD 610	None	4GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7002HUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7002JUS	US	i5-8400T	No	Intel UHD 630	None	4GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70034US	US	i3-8100T	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	8265 ac, 2x2 + BT4.2	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70035US	US	i3-8100T	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70036US	US	i3-8100T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70037US	US	i7-8700T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70038US	US	i7-8700T	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70039US	US	i7-8700T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7003AUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	8265 ac, 2x2 + BT4.2	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7003BUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10T7003CUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7003DUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7003EUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7003FUS	US	i3-8100T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	None	4 Serial	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10T7003GUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	I350-T4 + Integrated	None	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10T7003HUS	US	i3-8100T	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7003JUS	US	i3-8100T	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7003KUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	8265 ac, 2x2 + BT4.2	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7003LUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7004VUS	US	Pentium Gold G5400T	No	Intel UHD 610	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7004WUS	US	i3-8100T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7004XUS	US	i7-8700T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T7004YUS	US	i5-8400T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70050US	US	i5-8400T	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70051US	US	i7-8700T	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	8265 ac, 2x2 + BT4.2	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70054US	US	i3-8100T	No	Intel UHD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70055US	US	i3-8100T	No	Intel UHD 630	None	8GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18
10T70056US	US	i5-8400T	No	Intel UHD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10T70057US	US	i5-8400T	No	Intel UHD 630	None	8GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2 + BT4.2	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	06/18

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ThinkCentre M720 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900	2 / 2	3.1G	2 MB	DDR4-2400	UHD 610
Celeron G4920	2 / 2	3.2G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400	2 / 4	3.7G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500	2 / 4	3.8G	4 MB	DDR4-2400	UHD 630
Pentium Gold G5600	2 / 4	3.9G	4 MB	DDR4-2400	UHD 630
Core i3-8100	4 / 4	3.6G	6 MB	DDR4-2400	UHD 630
Core i3-8300	4 / 4	3.7G	8 MB	DDR4-2400	UHD 630
Core i5-8400	6 / 6	2.8G / 4.0G	9 MB	DDR4-2666	UHD 630
Core i5-8500	6 / 6	3.0G / 4.1G	9 MB	DDR4-2666	UHD 630
Core i5-8600	6 / 6	3.1G / 4.3G	9 MB	DDR4-2666	UHD 630
Core i7-8700	6 / 12	3.2G / 4.6G	12 MB	DDR4-2666	UHD 630

Memory

64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Three onboard SATA 6.0Gb/s connectors

Media reader

Optional 7-in-1 media reader

Graphics

Intel UHD Graphics 610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

Monitor Cable

Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

Chipset

Intel B360 Chipset

Front ports* (Std.)

2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)

Front ports* (Opt.)

Optional: 1x media reader

Rear ports* (Std.)

4x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)

Rear ports* (Opt.)

Optional: 2x USB 3.1 Gen1 via PCIe x1**, 2x USB 3.1 Type-C Gen2 via PCIe x4** (special bid only), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIe x1, 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), additional RJ-45 and video ports available on optional graphics or ethernet card
* Depending on many factors, actual data transfer speed may be lower than theoretical speed
** Choose either 2x USB 3.1 Gen1 or 2x USB 3.1 Type-C Gen2

Audio support

High Definition (HD) Audio, Realtek ALC233VB2 / internal speaker (2 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-V (Jacksonville), Wake on LAN®

Ethernet (Opt.)

Some: Intel Ethernet Server Adapter I350-T4*, gigabit ethernet, 4x RJ-45, PCIe x4
Some: Bitland BN8E88*, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)
* Choose either I350-T4 or BN8E88

Manageability

None

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Optional cable lock to physically lock both keyboard and mouse
- Optional chassis intrusion switch
- Optional chassis E-Lock (special bid)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Keyboard (PS/2 connector), black (only available via special bid)

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

Mechanical

- Tower (15L), black color, metal case
- *(WxDxH)* 5.91" X 10.65" X 14.17"; 150mm X 270.5mm X 360mm
- Approx. 15.21 lb (6.9 kg), weight may vary by configuration
- Optional dust filter

Bay 1: Slim external ODD bay
Bay 2: 3.5", 1" high, internal, HDD/SSD
Bay 3: 3.5", 1" high, internal, HDD/SSD (optional bay)
Slot 1: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x16
Slot 2: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1
Slot 3: half-length full-height (length < 189mm, height < 104mm), PCIe 3.0 x1
Slot 4: no slot, only bracket for optional port extension
M.2 card slots: Two (one for WLAN, one for SSD/Optane)

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU
Some: 260 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, TCO, TUV low noise verified (coming soon, on some models), RoHS-compliant

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optional Bay	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Chassis E-Lock	Cable Lock	Speaker	Dust Filter	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	Ann Date (mm/yy)
10SQ000VUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ000WUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ000XUS	US	i3-8100	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0010US	US	i5-8400	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0011US	US	i7-8700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0012US	US	i3-8100	No	Intel UHD 630	None	4GBx1	1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0013US	US	i5-8400	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2nd 3.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0014US	US	i5-8400	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0015US	US	i7-8700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0016US	US	i3-8100	No	Intel UHD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0017US	US	i7-8700	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0018US	US	i7-8700	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0019US	US	i3-8100	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001AUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001BUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001DUS	US	Pentium Gold G5400	No	Intel UHD 610	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001FUS	US	i5-8400	No	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001GUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001HUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001JUS	US	i5-8400	No	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optional Bay	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Chassis E-Lock	Cable Lock	Speaker	Dust Filter	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	Ann Date (mm/yy)
10SQ001KUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001LUS	US	Pentium Gold G5400	No	Intel UHD 610	None	8GBx1	1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001MUS	US	i3-8100	No	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2nd 3.5" bay	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ001NUS	US	i7-8700	No	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2nd 3.5" bay	DVD±RW	None	8265 ac, 2x2 + BT4.2	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ0039US	US	i7-8700	No	Intel UHD 630	None	16GBx1	256GB SSD M.2 PCIe NVMe Opal	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SQ003BUS	US	i7-8700	No	Intel UHD 630	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SQ004NUS	US	i5-8400	No	Intel UHD 630	None	16GBx1	256GB SSD M.2 PCIe NVMe Opal	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	None	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	01/19

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ThinkCentre M725 SFF Platform Specifications

Processor

AMD A6 / A8 / A10 / A12 and Ryzen 3 / 5 / 7 series processor

Processor	Cores / Threads	Frequency (Base/Max)	L2 Cache	Memory Support (Up to)	Integrated Graphics
PRO A6-9500	2 / 2	3.5 / 3.8	1MB	DDR4-2400	Radeon R5
PRO A8-9600	4 / 4	3.1 / 3.4	2MB	DDR4-2400	Radeon R7
PRO A10-9700	4 / 4	3.5 / 3.8	2MB	DDR4-2400	Radeon R7
PRO A12-9800	4 / 4	3.8 / 4.2	2MB	DDR4-2400	Radeon R7
Ryzen 3 2300X	4 / 4	3.5 / 4.0	2MB	DDR4-2933	None
Ryzen 5 2500X	4 / 8	3.6 / 4.0	2MB	DDR4-2933	None
Ryzen 3 PRO 2200G	4 / 4	3.5 / 3.6	2MB	DDR4-2933	Radeon Vega 8
Ryzen 5 PRO 2400G	4 / 8	3.6 / 3.8	2MB	DDR4-2933	Radeon RX Vega 11
Ryzen 5 PRO 2600	6 / 12	3.4 / 3.9	3MB	DDR4-2933	None
Ryzen 7 PRO 2700	8 / 16	3.2 / 4.1	4MB	DDR4-2933	None

Memory

64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
* Systemboard supports up to DDR4-2666, memory frequency may automatically clocks down for the lower capability of memory controller in processor

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe and AMD A6 / A8 / A10 / A12 processor only supports PCIe 3.0 x 2, 16Gb/s

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Three onboard SATA 6.0Gb/s connectors, RAID 0/1 support (RAID preset only available via special bid model)

Media reader

Optional 7-in-1 media reader

Graphics

AMD Radeon™ Graphics in processor (only for some processors), uses main memory, DirectX® 12, one VGA, two DisplayPort™ (Onboard VGA and DP ports are only available on the models with integrated graphics), supports 3 independent displays, works along with AMD discrete graphics to support more displays;
Max resolution: 4096x2160 (DP)@60Hz; 1920x1200 (VGA)@60Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB GDDR5, PCIe 2.0 x16 (x8 elec.) adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz

Monitor cable

Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle, or DP to HDMI 1.4 dongle

Chipset

AMD B450 Chipset

Front ports* (Std.)

2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x microphone (3.5mm), 1x headphone (3.5mm)

Front ports* (Opt.)

Optional: 1x media reader, 2x USB 3.1 Type-C Gen2 via PCIe card (special bid only)

Rear ports* (Std.)

2x USB 3.1 Gen1, 2x USB 2.0, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA**, 2x DisplayPort**, 2x PS/2 ports (keyboard / mouse); 1x line-in (3.5mm), 1x line-out (3.5mm), 1x microphone (3.5mm)

Rear ports* (Opt.)

Optional: 2x USB 2.0, 1x 2nd serial (9-pin), 1x parallel (25-pin), additional RJ-45 and video ports available on optional graphics or ethernet card

* Depending on many factors, actual data transfer speed may be lower than theoretical speed
** only available on the models with integrated graphics

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1 watt)

WLAN

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2* combo adapter, 2x2

Bluetooth™

Some: Bluetooth 4.2* wireless, integrated in Wi-Fi + BT combo adapter
* Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1

Ethernet

Gigabit ethernet, Realtek RTL8111EPV, Wake on LAN®

Ethernet (Opt.)

Some: Bitland BN8E88, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

Manageability

DASH 10/1.1

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Keyboard (PS/2 connector), black (only available via special bid)

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

Mechanical

- SFF (8.4L), black color; metal case
- *(WxDxH)* 3.6" X 11.4" X 13.5"; 92.5mm X 290.5mm X 343.5mm
- Approx. 13.2 lb (6.0 kg), weight may vary by configuration
- Toolless cover, disk, optical removal
- Optional dust filter

Bay 1: Slim external ODD bay
Bay 2: 3.5", nternal, HDD/SSD
Bay 3: 2.5", internal, HDD/SSD (bay only comes with 2.5" 2nd disk)
Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16
Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 2.0 x1
Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 2.0 x1
Slot 4: low-profile (length < 150mm, height < 68mm), PCI 3.0
M.2 card slots: two (one for WLAN, one for SSD)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU
Some: 260 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty

1-year or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment

ENERGY STAR® 7.0*, EPEAT™ Gold rating* (*not for non-OS models); ErP Lot 3; RoHS-compliant

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Stand	Keyboard / Mouse	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10VT0000US	US	AMD Ryzen 3 PRO 2200G	No	AMD Vega 8 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0001US	US	AMD Ryzen 3 PRO 2200G	No	AMD Vega 8 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	DVD±RW	None	QCA6174A ac, 2x2 + BT4.2	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0002US	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0003US	US	AMD Ryzen 3 PRO 2200G	No	AMD Vega 8 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0004US	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0005US	US	AMD Ryzen 7 PRO 2700	No	GT 730 2GB	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0006US	US	AMD Ryzen 3 PRO 2200G	No	AMD Vega 8 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	QCA6174A ac, 2x2 + BT4.2	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0007US	US	AMD Ryzen 7 PRO 2700	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0008US	US	AMD PRO A6-9500	No	AMD R5 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT0009US	US	AMD Ryzen 7 PRO 2700	No	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000AUS	US	AMD Ryzen 5 PRO 2600	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000BUS	US	AMD Ryzen 5 PRO 2400G	No	AMD RX Vega 11 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	QCA6174A ac, 2x2 + BT4.2	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000CUS	US	AMD Ryzen 5 PRO 2600	No	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000DUS	US	AMD Ryzen 3 PRO 2200G	No	AMD Vega 8 Graphics	None	8GBx1	128GB SSD M.2 (2242) PCIe NVMe	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000EUS	US	AMD Ryzen 7 PRO 2700	No	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000FUS	US	AMD PRO A8-9600	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000GUS	US	AMD Ryzen 3 PRO 2200G	No	AMD Vega 8 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000HUS	US	AMD Ryzen 5 PRO 2400G	No	AMD RX Vega 11 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	QCA6174A ac, 2x2 + BT4.2	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000JUS	US	AMD Ryzen 5 PRO 2400G	No	AMD RX Vega 11 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000KUS	US	AMD PRO A6-9500	No	AMD R5 Graphics	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Speaker	Dust Filter	Stand	Keyboard / Mouse	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10VT000LUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000MUS	US	AMD PRO A10-9700	No	AMD R7 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000NUS	US	AMD Ryzen 5 PRO 2400G	No	AMD RX Vega 11 Graphics	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	DVD±RW	None	None	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18
10VT000PUS	US	AMD Ryzen 3 PRO 2200G	No	AMD Vega 8 Graphics	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	None	QCA6174A ac, 2x2 + BT4.2	Integrated	None	None	None	None	1.5Wx1	None	Stand	USB / USB	210W 85%	Win10 Pro 64	3-year, Onsite	07/18

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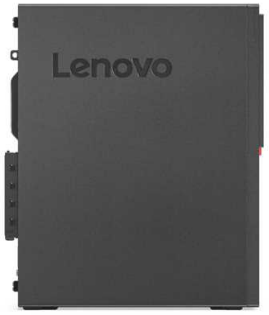

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ThinkCentre M910 SFF Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Core i5-6500	4 / 4	3.2G / 3.6G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4G / 4.0G	8 MB	DDR4-2133	HD 530
Core i3-7300	2 / 4	4.0G / --	4 MB	DDR4-2400	HD 630
Core i5-7400	4 / 4	3.0G / 3.5G	6 MB	DDR4-2400	HD 630
Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630
Core i5-7600	4 / 4	3.5G / 4.1G	6 MB	DDR4-2400	HD 630
Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630

Memory

64GB max, UDIMM, DDR4-2400*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Optical

Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, RAID 0/1 support (RAID preset only available via special bid model)

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel Q270 Chipset

Front ports*

Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)

Rear ports*

Four USB 3.1 Gen1, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse);
additional DisplayPort on optional graphics on some models

Rear audio ports*

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394*

None

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- SFF (8.4L), black color, metal case
- *(WxDxH)* 3.6" X 11.4" X 13.5"; 92.5mm X 290.5mm X 343.5mm
- Approx. 11.92 lb (5.4 kg), weight may vary by configuration
- Toolless cover, disk, optical, graphic card removal
- Optional dust filter

Bay 1: Slim external ODD bay
Bay 2: 3.5", 1" high, internal, HDD/SSD
Bay 3: 2.5", internal, HDD/SSD (optional bay)
Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16*
Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1*
Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16 (x4 signal)*
Slot 4: no slot, only bracket for optional port extension*
M.2 card slots: Two (one for WLAN, one for SSD/Optane)
* Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 (x4 signal) slot, optional rear 2x USB2.0 / parallel / 2nd serial / cable lock / Wi-Fi antenna occupies one expansion slot

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate

- Only for Window 10

- Lenovo Companion

- Only for Window 7

- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Optional 2nd 2.5" Bay	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Front Access HDD	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MK000AUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000BUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000CUS	US	i5-7500	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000DUS	US	i5-7500	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000EUS	US	i7-7700	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000FUS	US	i7-7700	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000GUS	US	i5-7500	vPro	Intel HD 630	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000HUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000KUS	US	i5-7500	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000LUS	US	i7-7700	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000MUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000NUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000PUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000QUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000RUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000SUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK000TUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MK0035US	US	i5-6500	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK0036US	US	i5-6500	vPro	Intel HD 530	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK0037US	US	i5-6500	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Optional 2nd 2.5" Bay	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Front Access HDD	Speaker	Dust Filter	Keyboard / Mouse	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MK0038US	US	i7-6700	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK0039US	US	i5-6500	vPro	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003AUS	US	i7-6700	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003BUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003CUS	US	i5-6500	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003DUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003EUS	US	i5-6500	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003FUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003GUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003HUS	US	i7-6700	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003JUS	US	i5-6500	vPro	Intel HD 530	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003KUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003LUS	US	i7-6700	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003MUS	US	i5-7500	vPro	Intel HD 630	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003NUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK003PUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MK004WUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MK004XUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MK0052US	US	i7-7700	vPro	Intel HD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MK0053US	US	i5-7500	vPro	Intel HD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2nd 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Floor Stand	210W 85%	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18

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ThinkCentre M910 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Core i5-6500T	4 / 4	2.5G / 3.1G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8G / 3.6G	8 MB	DDR4-2133	HD 530
Core i5-7500T	4 / 4	2.7G / 3.3G	6 MB	DDR4-2400	HD 630
Core i5-7600T	4 / 4	2.8G / 3.7G	6 MB	DDR4-2400	HD 630
Core i7-7700T	4 / 8	2.9G / 3.8G	8 MB	DDR4-2400	HD 630

Memory

32GB max, DDR4-2400*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm, APS
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Optical

Some: DVD-ROM, slim (9.0mm), via USB external ODD box
Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box

Onboard SATA

One onboard SATA 6.0Gb/s connector

Media reader

None

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional video port (HDMI, VGA, 3rd DP, or USB 3.1 Type-C with DisplayPort Alternate Mode), up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz

Monitor cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel Q270 Chipset

Front ports*

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports*

Four USB 3.1 Gen1 (optional external optical box or external I/O box occupies one or two specific USB 3.1 Gen1 on some models), ethernet (RJ-45), two DisplayPort, two optional ports (Port 1 for VGA / 3rd DP / HDMI / serial / USB 3.1 Type-C Gen 1 (with DisplayPort Alternate Mode), Port 2 for serial)

I/O box*

Optional external I/O box, extends two USB 2.0, two USB 3.1 Gen1, and one serial on rear, two USB 2.0 on front, via USB cable (occupy two specific USB 3.1 Gen1 of Tiny)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC294 / optional internal speaker (1w or 2w)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter
* Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

TPM (Trusted Platform Module) 2.0*, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open
- Toolless HDD, SSD, memory removal
- Optional toolless chassis screw
- Optional dust filter

	Dimensions (WxDxH)	Weight (Approx.)
M910 Tiny only	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.91 lb (1.32 kg), vary by config
With VESA mount & ODD box	7.42" X 7.30" X 2.48" 188.4mm X 185.38mm X 63mm	3.66 lb (1.66 kg), vary by config
With VESA mount & I/O box	7.42" X 7.30" X 2.62" 188.4mm X 185.38mm X 66.6mm	3.66 lb (1.66 kg), vary by config

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
90 watts AC/DC adapter, autosensing, 88% PSU (only for models with I/O box)

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate

- Only for Window 10
- Lenovo Companion
- Intel Unite download link (vPro models only)

- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)
- Intel Unite (vPro models only)

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

See footnotes for more detailed information

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MV000JUS	US	i5-7500T	vPro	Intel HD 630	None	4GBx1	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000KUS	US	i7-7700T	vPro	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe	DVD±RW	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000LUS	US	i5-7500T	vPro	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000MUS	US	i5-7500T	vPro	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000NUS	US	i5-7500T	vPro	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000PUS	US	i5-7500T	vPro	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	DVD±RW	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000QUS	US	i5-7500T	vPro	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000RUS	US	i5-7500T	vPro	Intel HD 630	None	4GBx1	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000SUS	US	i5-7500T	vPro	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000TUS	US	i5-7500T	vPro	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000UUS	US	i7-7700T	vPro	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000VUS	US	i5-7500T	vPro	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	Serial	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000XUS	US	i5-7500T	vPro	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV000YUS	US	i7-7700T	vPro	Intel HD 630	None	8GB	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV0010US	US	i7-7700T	vPro	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV0011US	US	i5-7500T	vPro	Intel HD 630	None	4GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV0012US	US	i5-7500T	vPro	Intel HD 630	None	8GB	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV0013US	US	i7-7700T	vPro	Intel HD 630	None	8GB	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV0014US	US	i5-7500T	vPro	Intel HD 630	None	8GB	256GB SSD M.2 PCIe NVMe	DVD±RW	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	VESA Mount	None	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MV002MUS	US	i7-6700T	vPro	Intel HD 530	None	8GB	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MV002NUS	US	i5-6500T	vPro	Intel HD 530	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	Serial	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002PUS	US	i5-7500T	vPro	Intel HD 630	None	8GBx2	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002QUS	US	i7-7700T	vPro	Intel HD 630	None	8GBx2	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002RUS	US	i7-7700T	vPro	Intel HD 630	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002SUS	US	i5-6500T	vPro	Intel HD 530	None	8GB	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002TUS	US	i7-6700T	vPro	Intel HD 530	None	16GBx1	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002UUS	US	i7-6700T	vPro	Intel HD 530	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002VUS	US	i7-7700T	vPro	Intel HD 630	None	8GBx2	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002WUS	US	i7-6700T	vPro	Intel HD 530	None	8GB	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002XUS	US	i5-7500T	vPro	Intel HD 630	None	8GBx2	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV002YUS	US	i5-6500T	vPro	Intel HD 530	None	8GBx2	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV0030US	US	i5-6500T	vPro	Intel HD 530	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV0031US	US	i5-6500T	vPro	Intel HD 530	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	VGA	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV0032US	US	i5-6500T	vPro	Intel HD 530	None	8GB	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Mar 21, 2022	03/17
10MV0033US	US	i7-6700T	vPro	Intel HD 530	None	8GB	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV0034US	US	i5-6500T	vPro	Intel HD 530	None	8GB	128GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV0035US	US	i7-7700T	vPro	Intel HD 630	None	8GBx2	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV0036US	US	i5-6500T	vPro	Intel HD 530	None	8GB	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV0037US	US	i5-6500T	vPro	Intel HD 530	None	8GBx2	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV0038US	US	i5-6500T	vPro	Intel HD 530	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MV0039US	US	i7-6700T	vPro	Intel HD 530	None	8GB	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 21, 2023	03/17
10MV003KUS	US	i7-7700T	vPro	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MV003LUS	US	i5-7500T	vPro	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MV003MUS	US	i5-7500T	vPro	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MV003NUS	US	i7-7700T	vPro	Intel HD 630	None	8GB	16GB Optane Memory + 500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Sep 5, 2022	09/17
10MV003TUS	US	i5-7500T	vPro	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MV003UUS	US	i5-7500T	vPro	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MV003VUS	US	i7-7700T	vPro	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MV003WUS	US	i7-7700T	vPro	Intel HD 630	None	4GBx1	16GB Optane Memory + 500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	HDMI	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	65W 88% Adapter	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18

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ThinkCentre M910 Tower Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Core i5-6500	4 / 4	3.2G / 3.6G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4G / 4.0G	8 MB	DDR4-2133	HD 530
Core i3-7300	2 / 4	4.0G / --	4 MB	DDR4-2400	HD 630
Core i5-7400	4 / 4	3.0G / 3.5G	6 MB	DDR4-2400	HD 630
Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630
Core i5-7600	4 / 4	3.5G / 4.1G	6 MB	DDR4-2400	HD 630
Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630

Memory

64GB max, UDIMM, DDR4-2400*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2
Some: Front accessible and removable HDD, 3.5", lockable via physical key

Optical

Some: DVD-ROM, SATA 1.5Gb/s, 5.25" or slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s, 5.25" or slim (9.0mm)

Onboard SATA

Four onboard SATA 6.0Gb/s connectors (1x eSATA and 3x SATA), RAID 0/1 support (RAID preset only available via special bid model)

Media reader

Optional 7-in-1 media reader

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x8 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;
Some: **AMD Radeon™ R7 350**, DirectX 11, 2GB, PCIe 3.0 x8 adapter, one VGA, one HDMI, 75 watts, occupies two slots;
Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz
Some: **NVIDIA Geforce GTX™ 1080** (only available via special bid model), DirectX 12, 8GB, PCIe 3.0 x16 adapter, one DVI-D, one HDMI, three DisplayPort, 180 watts, occupies two slots;
Max resolution: 2560x1600 (DVI-D)@60Hz; 4096x2160 (HDMI)@60Hz
7680x4320 (with Single DP)@60Hz

Monitor Cable

Optional DP to VGA, DP to DVI-D (single link), DP to dual DP, or DP to HDMI 1.4

Chipset

Intel Q270 Chipset

Front ports*

Four USB 3.1 Gen1, optional two USB 3.1 Type-C Gen 2 (only available via special bid), microphone (3.5mm), headphone (3.5mm)

Rear ports*

Four USB 3.1 Gen1, optional two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, optional two PS/2 ports (keyboard/mouse);
additional VGA, DisplayPort, DVI-D, or HDMI on optional graphics on some models

Rear audio ports*

Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm)

IEEE 1394*

None

* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC662 / optional internal speaker (1.5 watt)

WLAN

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.1 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®

Modem

None

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

TPM (Trusted Platform Module) 2.0, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Optional cable lock to physically lock both keyboard and mouse
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

- Tower (18L), black color, metal case
- *(WxDxH)* 6.5" X 12.65" X 16.15"; 165mm X 321.35mm X 410.25mm
- Approx. 15.45 lb (7 kg), weight may vary by configuration
- Toolless cover, disk, optical, graphic card removal
- Optional carry handle, dust filter

Bay 1: Slim external ODD bay
Bay 2: 5.25", 1.6" high, external, ODD / optional front access HDD
Bay 3: 3.5", 1" high, internal, HDD/SSD
Bay 4: 3.5", 1" high, internal, HDD/SSD (optional bay, bay comes with disk)
Bay 5: 2.5", internal, HDD/SSD (optional bay)
Notes: M910 Tower supports up to 3 SATA devices (ODD/HDD/SSD) and 1 eSATA device (front access HDD)
Slot 1: full-length full-height (length < 268mm, height < 112mm), PCIe 3.0 x16*
Slot 2: full-length full-height (length < 268mm, height < 112mm), PCIe 3.0 x1*
Slot 3: full-length full-height (length < 268mm, height < 112mm), PCIe 3.0 x16 (x4 signal)*
Slot 4: no slot, only bracket for optional port extension*
M.2 card slots: Two (one for WLAN, one for SSD/Optane)
* Optional 2 front USB3.1 Type-C ports module occupies PCIe x16 (x4 signal) slot, optional rear 2x USB2.0 / parallel / 2nd serial occupies one expansion slot

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 250 watts, autosensing, 85% PSU
Some: 400 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate

- Only for Window 10

- Lenovo Companion

- Only for Window 7

- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Optional 2.5" Bay	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Front Access HDD	Speaker	Dust Filter	Keyboard / Mouse	Carry Handle	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MM000AUS	US	i5-7500	vPro	Intel HD 630	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000BUS	US	i7-7700	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000CUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000DUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000EUS	US	i5-7500	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000FUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000GUS	US	i5-7500	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000HUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000JUS	US	i7-7700	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000KUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000LUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000MUS	US	i7-7700	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000NUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000PUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM000QUS	US	i5-7500	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Mar 21, 2023	02/17
10MM002JUS	US	i5-6500	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002KUS	US	i5-6500	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002LUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002MUS	US	i5-6500	vPro	Intel HD 530	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002NUS	US	i7-6700	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	Optional 2.5" Bay	Media Reader	WLAN + Bluetooth	Optional Front Ports	Optional Rear Ports	Chassis Intrusion Switch	Cable Lock	Front Access HDD	Speaker	Dust Filter	Keyboard / Mouse	Carry Handle	Power Supply	Operating System	Warranty	End of Support	Ann Date (mm/yy)
10MM002PUS	US	i7-6700	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002QUS	US	i5-7500	vPro	Intel HD 630	None	4GBx1	128GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002RUS	US	i7-6700	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002SUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002TUS	US	i5-6500	vPro	Intel HD 530	None	4GBx1	500GB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002UUS	US	i5-6500	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002VUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002WUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002XUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	512GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM002YUS	US	i5-6500	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM0030US	US	i7-6700	vPro	Intel HD 530	None	8GBx1	1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM0031US	US	i7-6700	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM003AUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM003BUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	DVD±RW	Optional 2.5" Bay	None	8265 ac, 2x2, vPro + BT4.1	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 DG Win7 Pro 64	3-year, Onsite	Apr 28, 2023	03/17
10MM003NUS	US	i5-7500	vPro	Intel HD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18
10MM003PUS	US	i7-7700	vPro	Intel HD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	DVD±RW	Optional 2.5" Bay	None	None	None	None	None	None	None	1.5Wx1	None	USB / USB	Carry Handle	250W 85%	Win10 Pro 64	3-year, Onsite	Apr 27, 2024	03/18

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ThinkCentre M910x Tiny Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 6/7th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Core i5-6500T	4 / 4	2.5G / 3.1G	6 MB	DDR4-2133	HD 530
Core i7-6700T	4 / 8	2.8G / 3.6G	8 MB	DDR4-2133	HD 530
Core i5-7500T	4 / 4	2.7G / 3.3G	6 MB	DDR4-2400	HD 630
Core i5-7600T	4 / 4	2.8G / 3.7G	6 MB	DDR4-2400	HD 630
Core i7-7700T	4 / 8	2.9G / 3.8G	8 MB	DDR4-2400	HD 630
Core i5-6500	4 / 4	3.2G / 3.6G	6 MB	DDR4-2133	HD 530
Core i7-6700	4 / 8	3.4G / 4.0G	8 MB	DDR4-2133	HD 530
Core i5-7500	4 / 4	3.4G / 3.8G	6 MB	DDR4-2400	HD 630
Core i5-7600	4 / 4	3.5G / 4.1G	6 MB	DDR4-2400	HD 630
Core i7-7700	4 / 8	3.6G / 4.2G	8 MB	DDR4-2400	HD 630

Memory

32GB max, DDR4-2400*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive* / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm, APS
Some: Solid State Drive (SSD)* / SATA 6.0Gb/s, 2.5"
(* 2.5" HDD/SSD and RX 460 graphics are mutually exclusive)
Some: M.2 SSD (support up to two M.2 SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s, RAID 0/1 support (RAID preset only available via special bid model)
Some: Intel Optane™ Memory (models with 7th gen Core processor), M.2

Optical

Some: DVD-ROM, slim (9.0mm), via USB external ODD box
Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box

Onboard SATA

One onboard SATA 6.0Gb/s connector

Media reader

None

Graphics

Intel HD Graphics 510/530/610/630 in processor, uses main memory, DirectX® 12, two DisplayPort™, one optional video port (HDMI, VGA, 3rd DP, or USB 3.1 Type-C with DisplayPort Alternate Mode), up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (HDMI)@24Hz; 1920x1200 (VGA)@60Hz
Some: **AMD Radeon™ RX 460**, DirectX 12, 4GB, PCIe 3.0 x8 adapter (low profile), four mini DisplayPort, 35 watts (TDP), up to 4 independent displays, works along with 2 onboard DisplayPort to support up to 6 independent displays;
Max resolution: 5120x2880 @60Hz (up to 2 mini DisplayPort); 4096x2160 @60Hz (up to 4 mini DisplayPort)

Monitor cable

Optional DP to VGA, DP to DVI-D, DP to dual DP, mini DP to DP, or DP to HDMI 1.4

Chipset

Intel Q270 Chipset

Front ports*

Two USB 3.1 Gen1 (one is Always On and fast charge), one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports*

Four USB 3.1 Gen1 (optional optical box or I/O box occupies one or two specific USB 3.1 Gen1), ethernet (RJ-45), two DisplayPort, two optional ports (not available for the models with RX 460 graphics): Port 1 for [VGA / 3rd DP / HDMI / serial / USB 3.1 Type-C Gen 1 (with DisplayPort Alternate Mode)]; Port 2 for [serial]

I/O box*

Optional external I/O box, extends two USB 2.0, two USB 3.1 Gen1, and one serial on rear, two USB 2.0 on front, via USB cable (occupy 2 specific USB 3.1 G1 of Tiny)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC294 / optional internal speaker (1w or 2w)

WLAN[13]

Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA9377A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Qualcomm Atheros QCA6174A (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter
* Hardware supports BT 4.2, but Win10 RS3 and earlier only supports BT 4.1

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®

Manageability

Intel Active Management Technology 11.0 (Intel AMT 11.0);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

TPM (Trusted Platform Module) 2.0*, TCG Certified
* Downgrade to TPM1.2 for the models with Win10 DG Win7 32 OS

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open
- Toolless HDD, SSD, memory removal
- Optional toolless chassis screw
- Optional dust filter

	Dimensions (WxDxH)	Weight (Approx.)
M910 Tiny only	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.91 lb (1.32 kg), vary by config
With VESA mount & ODD box	7.42" X 7.30" X 2.48" 188.4mm X 185.38mm X 63mm	3.66 lb (1.66 kg), vary by config
With VESA mount & I/O box	7.42" X 7.30" X 2.62" 188.4mm X 185.38mm X 66.6mm	3.66 lb (1.66 kg), vary by config

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

135 watts AC/DC adapter, autosensing, 88% PSU

Limited warranty[3]

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 10 Pro 64-bit (not available with 7th Gen Intel processor)
Some: Windows 10 Pro 64-bit
Some: Windows 10 Home 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; purchase a product key to activate
- Only for Window 10
- Lenovo Companion
- Intel Unite download link (vPro models only)
- Only for Window 7
- Lenovo Solution Center
- Lenovo ThinkVantage Tools
- Create Recovery Media
- Adobe® Reader®
- Cyberlink PowerDVD Create (DVD±RW)
- Intel Unite (vPro models only)

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, GREENGUARD®, RoHS-compliant, TUV low noise verified (on some models)

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories

For compatible accessories, please go to **http://www.lenovoquickpick.com**

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10N00007US	US	i5-7600	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N00008US	US	i5-7500	vPro	Intel HD 630	None	4GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N00009US	US	i7-7700	vPro	Intel HD 630	None	8GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N0000AUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N0000BUS	US	i5-7500	vPro	Intel HD 630	None	8GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N00014US	US	i5-6500T	vPro	AMD RX460 4GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N00015US	US	i5-6500	vPro	Intel HD 530	None	8GBx1	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N00016US	US	i7-6700	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N00017US	US	i7-6700T	vPro	AMD RX460 4GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N00018US	US	i5-7500T	vPro	AMD RX460 4GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N00019US	US	i5-6500T	vPro	AMD RX460 4GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N0001AUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N0001BUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N0001CUS	US	i5-6500	vPro	Intel HD 530	None	8GBx1	500GB 7200rpm 2.5"	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N0001DUS	US	i5-7500T	vPro	AMD RX460 4GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N0001EUS	US	i7-6700	vPro	Intel HD 530	None	8GBx1	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N0001FUS	US	i7-7700T	vPro	AMD RX460 4GB	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N0001GUS	US	i7-7700T	vPro	AMD RX460 4GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	04/17
10N0001HUS	US	i7-6700T	vPro	AMD RX460 4GB	None	8GBx1	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	None	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 DG Win7 Pro 64	3-year, Onsite	04/17
10N0001JUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	07/17

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	External Optical / I/O Box	WLAN + Bluetooth	Optional Rear Ports	Chassis Intrusion Switch	Kensington Cable Lock	Speaker	Adapter Cage	Toolless Chassis Screw	Dust Filter	Keyboard / Mouse	VESA Mount	Stand	Power Supply	Operating System	Warranty	Ann Date (mm/yy)
10N0001KUS	US	i7-7700	vPro	Intel HD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe	None	8265 ac, 2x2, vPro + BT4.1	3rd DP	Switch	None	1Wx1	None	None	None	USB / USB	None	Floor Stand	135W 88% Adapter	Win10 Pro 64	3-year, Onsite	07/17

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ThinkCentre M920 SFF Platform Specifications

Processor

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900	2 / 2	3.1G	2 MB	DDR4-2400	UHD 610
Celeron G4920	2 / 2	3.2G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400	2 / 4	3.7G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500	2 / 4	3.8G	4 MB	DDR4-2400	UHD 630
Pentium Gold G5600	2 / 4	3.9G	4 MB	DDR4-2400	UHD 630
Core i3-8100	4 / 4	3.6G	6 MB	DDR4-2400	UHD 630
Core i3-8300	4 / 4	3.7G	8 MB	DDR4-2400	UHD 630
Core i5-8400	6 / 6	2.8G / 4.0G	9 MB	DDR4-2666	UHD 630
Core i5-8500	6 / 6	3.0G / 4.1G	9 MB	DDR4-2666	UHD 630
Core i5-8600	6 / 6	3.1G / 4.3G	9 MB	DDR4-2666	UHD 630
Core i7-8700	6 / 12	3.2G / 4.6G	12 MB	DDR4-2666	UHD 630

Memory

64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical

Some: DVD-ROM, SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, RAID 0/1 support (RAID preset only available via special bid model)

Media reader

Optional 7-in-1 media reader

Graphics

Intel UHD Graphics 610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;

Monitor cable

Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

Chipset

Intel Q370 Chipset

Front ports* (Std.)

2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)

Front ports* (Opt.)

Optional: 1x media reader

Rear ports* (Std.)

4x USB 3.1 Gen1, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)

Rear ports* (Opt.)

Optional: 2x USB 2.0, 2x USB 3.1 Gen1 via PCIe x1, 2x USB 3.1 Type-C Gen2 via PCIe x4 (special bid only), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIe x1, 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), 1x Thunderbolt 3 (combo USB3.1 Type-C Gen 2 / DisplayPort) via PCIe x4 (available on 09/30/2018), additional RJ-45 and video ports available on optional graphics or ethernet card
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC233VB2 / internal speaker (2 watt)

WLAN

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2

Bluetooth

Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®

Ethernet (Opt.)

Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4
Some: Bitland BN8E88, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

Manageability

Intel Active Management Technology 12 (Intel AMT 12);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Optional cable lock to physically lock both keyboard and mouse
- Optional chassis intrusion switch
- Optional chassis E-Lock (special bid)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Keyboard (PS/2 connector), black (only available via special bid)

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

Mechanical

- SFF (8.4L), black color, metal case
- *(WxDxH)* 3.6" X 11.4" X 13.5"; 92.5mm X 290.5mm X 343.5mm
- Approx. 13.23 lb (6 kg), weight may vary by configuration
- Toolless cover, disk, optical, extension card removal
- Optional dust filter

Bay 1: Slim external ODD bay
Bay 2: 3.5", 1" high, internal, HDD/SSD
Bay 3: 2.5", internal, HDD/SSD (optional bay)
Slot 1: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16
Slot 2: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x1
Slot 3: low-profile (length < 150mm, height < 68mm), PCIe 3.0 x16 (x4 signal)
Slot 4: no slot, only bracket for optional port extension
M.2 card slots: Two (one for WLAN, one for SSD/Optane)

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 210 watts, autosensing, 85% PSU
Some: 260 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, TCO, TUV low noise verified (coming soon, on some models), RoHS-compliant

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optional Bay	Front Access HDD	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Chassis E-Lock	Cable Lock	Speaker	Dust Filter	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	Ann Date (mm/yy)
10SJ000GUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000HUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ000JUS	US	i5-8500	vPro	Intel UHD 630	None	4GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000KUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000LUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000MUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000NUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ000PUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000QUS	US	i7-8700	vPro	GT 730 2GB	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ000RUS	US	i5-8500	vPro	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ000SUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000TUS	US	i7-8700	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ000UUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ000VUS	US	i5-8500	vPro	Intel UHD 630	None	4GBx1	500GB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000WUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ000XUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ000YUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ0010US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SJ0011US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SJ002XUS	US	i7-8700	vPro	Intel UHD 630	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage (HDD/SSD)	Optional Bay	Front Access HDD	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Chassis E-Lock	Cable Lock	Speaker	Dust Filter	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	Ann Date (mm/yy)
10SJ002YUS	US	i7-8700	vPro	Intel UHD 630	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Stand	USB / USB	210W 85%	None	Win10 Pro 64	3-year, Onsite	07/18

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ThinkCentre M920 Tiny Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900T	2 / 2	2.9G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400T	2 / 4	3.1G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500T	2 / 4	3.2G	4 MB	DDR4-2400	UHD 630
Core i3-8100T	4 / 4	3.1G	6 MB	DDR4-2400	UHD 630
Core i3-8300T	4 / 4	3.2G	8 MB	DDR4-2400	UHD 630
Core i5-8400T	6 / 6	1.7G / 3.3G	9 MB	DDR4-2666	UHD 630
Core i5-8500T	6 / 6	2.1G / 3.5G	9 MB	DDR4-2666	UHD 630
Core i5-8600T	6 / 6	2.3G / 3.7G	9 MB	DDR4-2666	UHD 630
Core i7-8700T	6 / 12	2.4G / 4.0G	12 MB	DDR4-2666	UHD 630

Memory

32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical

Some: DVD-ROM, slim (9.0mm), via USB external ODD box
Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box

Onboard SATA

One onboard SATA 6.0Gb/s connector

Graphics

Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Type-C Gen1 with DisplayPort function), up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (onboard HDMI)@24Hz; 2048x1536 (VGA)@50Hz

Monitor cable

Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

Chipset

Intel Q370 Chipset

Front ports (Std.)*

one USB 3.1 Gen1 (Always On and fast charge), one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports (Std.)*

2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x ethernet (RJ-45), 1x DisplayPort, 1x HDMI

Rear ports (Opt.)*

Two optional ports (mutually exclusive with PCIe card): Port 1 for VGA / 2nd DP / 2nd HDMI / serial / USB 3.1 Type-C Gen 1 with DP function); Port 2 for serial;
Optional ports via PCIe card: 2x USB 3.1 Gen1 via PCIe x1, 4x serial (9-pin) via PCIe x1, 1x Thunderbolt 3 (combo USB3.1 Type-C Gen 2 / DisplayPort) via PCIe x4
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

Realtek ALC233VB2 / optional internal speaker (1.5 watt or 2 watt)

WLAN

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2

Bluetooth

Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®

Ethernet (Opt.)

Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4

Manageability

Intel Active Management Technology 12 (Intel AMT 12);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Chassis intrusion switch
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical

Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless chassis screw)
- Toolless HDD, SSD, memory removal
- Optional dust filter

one 2.5" bay for HDD/SSD, one PCIe 3.0 x8 slot (low-profile), two M.2 slots (one for WLAN, one for M.2 SSD), 2.5" HDD/SSD and PCIe card are mutually exclusive

	Dimensions (WxDxH)	Weight (Approx.)
Tiny only	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.91 lb (1.32 kg), vary by config
With VESA mount & ODD box	7.42" X 7.30" X 2.48" 188.4mm X 185.38mm X 63mm	3.66 lb (1.66 kg), vary by config

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand

Optional system floor stand for vertical orientation

Power supply

Some: 65 watts AC/DC adapter, autosensing, 88% PSU
Some: 90 watts AC/DC adapter, autosensing, 88% PSU
Some: 135 watts AC/DC adapter, autosensing, 88% PSU

Limited warranty

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)
- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn
- Intel Unite (Machine Type 10V8 models only)

Environment

ENERGY STAR® 7.0, EPEAT™ Gold rating (North America), ErP Lot 3, TCO, TUV ultra low noise verified (coming soon, on some models), RoHS-compliant

MIL-SPEC test

MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10RS000MUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS000PUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS000QUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS000RUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS000TUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS000UUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS000VUS	US	i7-8700T	vPro	Intel UHD 630	None	16GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS000XUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS000YUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0010US	US	i7-8700T	vPro	Intel UHD 630	None	16GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0012US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0013US	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0014US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0015US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0017US	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0018US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS001BUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001CUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001GUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001HUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10RS001JUS	US	Core i5-8500T	vPro	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001KUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS001LUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS001MUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001NUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001PUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS001QUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001RUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001SUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001TUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS001UUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS001VUS	US	Core i5-8500T	vPro	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001WUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS001XUS	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	90W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS001YUS	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	None	4 Serial	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0020US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0021US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS0022US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS0023US	US	i7-8700T	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS0024US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	I350-T4 + Integrated	None	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10RS0025US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10RS0026US	US	Core i5-8500T	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	65W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10RS0036US	US	i7-8700T	vPro	Intel UHD 630	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	01/19

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ThinkCentre M920 Tower Platform Specifications

Product Specifications Reference (PSREF)

Processor

Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900	2 / 2	3.1G	2 MB	DDR4-2400	UHD 610
Celeron G4920	2 / 2	3.2G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400	2 / 4	3.7G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500	2 / 4	3.8G	4 MB	DDR4-2400	UHD 630
Pentium Gold G5600	2 / 4	3.9G	4 MB	DDR4-2400	UHD 630
Core i3-8100	4 / 4	3.6G	6 MB	DDR4-2400	UHD 630
Core i3-8300	4 / 4	3.7G	8 MB	DDR4-2400	UHD 630
Core i5-8400	6 / 6	2.8G / 4.0G	9 MB	DDR4-2666	UHD 630
Core i5-8500	6 / 6	3.0G / 4.1G	9 MB	DDR4-2666	UHD 630
Core i5-8600	6 / 6	3.1G / 4.3G	9 MB	DDR4-2666	UHD 630
Core i7-8700	6 / 12	3.2G / 4.6G	12 MB	DDR4-2666	UHD 630

Memory

64GB max, UDIMM, DDR4-2666*, four 288-pin DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage

Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s
* SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical

Optional DVD-ROM or DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Onboard SATA

Four onboard SATA 6.0Gb/s connectors, RAID 0/1 support (RAID preset only available via special bid model)

Media reader

Optional 7-in-1 media reader

Graphics

Intel UHD Graphics 610/630 in processor, uses main memory, DirectX® 12, one VGA, two DisplayPort™, supports 3 independent displays, works along with discrete graphics to support more displays;
Max resolution: 4096x2304 (DP)@60Hz; 2048x1536 (VGA)@50Hz
Some: **NVIDIA Geforce® GT 730**, DirectX 12, 2GB, PCIe 2.0 x16 adapter, two DisplayPort, 35 watts;
Max resolution: 3840x2160 (DisplayPort)@60Hz;
Some: **NVIDIA Geforce GTX 1060** (special bid only), DirectX 12, 6GB, PCIe 3.0 x16 adapter, 1x DVI-D, 1x HDMI, 3x DP, 120 watts, occupies two slots;
Max resolution: 2560x1600 (DVI-D)@60Hz; 4096x2160 (HDMI)@60Hz 5120x3200 (DP)@60Hz

Monitor Cable

Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle

Chipset

Intel Q370 Chipset

Front ports* (Std.)

2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x USB 3.1 Type-C Gen1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)

Front ports* (Opt.)

Optional: 1x media reader

Rear ports* (Std.)

4x USB 3.1 Gen1, 1x serial (9-pin), 1x ethernet (RJ-45), 1x VGA, 2x DisplayPort, 1x line-out (3.5mm)

Rear ports* (Opt.)

Optional: 2x USB 2.0, 2x USB 3.1 Gen1 via PCIe x1, 2x USB 3.1 Type-C Gen2 via PCIe x4 (special bid only), 1x 2nd serial (9-pin), 4x serial (9-pin) via PCIe x1, 1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), 1x Thunderbolt 3 (combo USB3.1 Type-C Gen 2 / DisplayPort) via PCIe x4 (available on 09/30/2018), additional RJ-45 and video ports available on optional graphics or ethernet card
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support

High Definition (HD) Audio, Realtek ALC233VB2 / internal speaker (2 watt)

WLAN

Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2

Bluetooth™

Some: Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet

Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®

Ethernet (Opt.)

Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4
Some: Bitland BN8E88, gigabit ethernet, 1x RJ-45, PCIe x1 (special bid only)

Manageability

Intel Active Management Technology 12 (Intel AMT 12);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip

Discrete TPM 2.0, TCG Certified

Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Padlock loop
- Optional cable lock to physically lock both keyboard and mouse
- Optional chassis intrusion switch
- Optional chassis E-Lock (special bid)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

Keyboard

Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
Some: Lenovo Keyboard (PS/2 connector), black (only available via special bid)

Mouse

Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
Some: Lenovo Mouse (PS/2 connector), black (only available via special bid)

Mechanical

- Tower (18L), black color, metal case
- *(WxDxH)* 6.5" X 12.65" X 16.15"; 165mm X 321.35mm X 410.25mm
- Approx. 15.45 lb (7 kg), weight may vary by configuration
- Toolless cover, disk, optical, extension card removal
- Optional carry handle, dust filter

Bay 1: Slim external ODD bay
Bay 2: 5.25", 1.6" high, external, ODD / optional front access HDD
Bay 3: 3.5", 1" high, internal, HDD/SSD
Bay 4: 3.5", 1" high, internal, HDD/SSD (optional bay, bay comes with disk)
Bay 5: 2.5", internal, HDD/SSD (optional bay)
Notes: M920 Tower supports up to 3 SATA devices (ODD/HDD/SSD) and 1 eSATA device (front access HDD)
Slot 1: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x16
Slot 2: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x1
Slot 3: full-length (< 268mm) full-height (< 112mm), PCIe 3.0 x16 (x4 signal)
Slot 4: no slot, only bracket for optional port extension
M.2 card slots: Two (one for WLAN, one for SSD/Optane)

Power supply

Some: 180 watts, autosensing, 85% PSU
Some: 250 watts, autosensing, 85% PSU
Some: 400 watts, autosensing, 92% PSU (only available via special bid)

Limited warranty

Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload

Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)

- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment

ENERGY STAR® 6.1, EPEAT™ Gold rating (North America), ErP Lot 3, TCO, TUV low noise verified (coming soon, on some models), RoHS-compliant

Accessories

For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optional Bay	Front Access HDD	Optical	Media Reader	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Chassis Intrusion Switch	Chassis E-Lock	Cable Lock	Speaker	Dust Filter	Carry Handle	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	Operating System	Warranty	Ann Date (mm/yy)
10SF0002US	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 3.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SF0003US	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SF0004US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 3.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF0005US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SF0006US	US	i7-8700	vPro	GT 730 2GB	None	8GBx1	1TB 7200rpm 3.5"	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF0007US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF0008US	US	i5-8500	vPro	Intel UHD 630	None	4GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF0009US	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SF000AUS	US	i7-8700	vPro	GT 730 2GB	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF000BUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SF000CUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 3.5"	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	06/18
10SF000DUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF000EUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF000FUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 3.5"	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF000GUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF000HUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	Optional 3.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18
10SF002CUS	US	i7-8700	vPro	Intel UHD 630	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	Optional 2.5" bay	None	DVD±RW	None	None	Integrated	None	None	None	None	2Wx1	None	Carry Handle	None	USB / USB	250W 85%	None	Win10 Pro 64	3-year, Onsite	07/18

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ThinkCentre M920x Tiny Platform Specifications

Processor — Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G4900	2 / 2	3.1G	2 MB	DDR4-2400	UHD 610
Celeron G4920	2 / 2	3.2G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400	2 / 4	3.7G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500	2 / 4	3.8G	4 MB	DDR4-2400	UHD 630
Pentium Gold G5600	2 / 4	3.9G	4 MB	DDR4-2400	UHD 630
Core i3-8100	4 / 4	3.6G	6 MB	DDR4-2400	UHD 630
Core i3-8300	4 / 4	3.7G	8 MB	DDR4-2400	UHD 630
Core i5-8400	6 / 6	2.8G / 4.0G	9 MB	DDR4-2666	UHD 630
Core i5-8500	6 / 6	3.0G / 4.1G	9 MB	DDR4-2666	UHD 630
Core i5-8600	6 / 6	3.1G / 4.3G	9 MB	DDR4-2666	UHD 630
Core i7-8700	6 / 12	3.2G / 4.6G	12 MB	DDR4-2666	UHD 630
Celeron G4900T	2 / 2	2.9G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400T	2 / 4	3.1G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5500T	2 / 4	3.2G	4 MB	DDR4-2400	UHD 630
Core i3-8100T	4 / 4	3.1G	6 MB	DDR4-2400	UHD 630
Core i3-8300T	4 / 4	3.2G	8 MB	DDR4-2400	UHD 630
Core i5-8400T	6 / 6	1.7G / 3.3G	9 MB	DDR4-2666	UHD 630
Core i5-8500T	6 / 6	2.1G / 3.5G	9 MB	DDR4-2666	UHD 630
Core i5-8600T	6 / 6	2.3G / 3.7G	9 MB	DDR4-2666	UHD 630
Core i7-8700T	6 / 12	2.4G / 4.0G	12 MB	DDR4-2666	UHD 630

Memory — 32GB max, DDR4-2666*, two 260-pin SO-DIMM sockets, non-ECC, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage
Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5"
Some: M.2 SSD (support up to two M.2 SSD) / PCIe NVMe, PCIe 3.0 x 4*, 32Gb/s, RAID 0/1 support (RAID preset only available via special bid model)
* 128GB SSD M.2 (2242) PCIe NVMe only supports PCIe 3.0 x 2, 16Gb/s
Some: Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2

Optical — *Some:* DVD-ROM, slim (9.0mm), via USB external ODD box
Some: DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box

Onboard SATA — One onboard SATA 6.0Gb/s connector

Graphics — **Intel HD Graphics 610/630** in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, one optional video port (2nd HDMI, VGA, 2nd DP, or USB 3.1 Type-C Gen1 with DisplayPort function), up to 3 independent displays;
Max resolution: 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (onboard HDMI)@24Hz; 2048x1536 (VGA)@50Hz
Some: **AMD Radeon™ RX 560**, DirectX 12, 4GB GDDR5, PCIe 3.0 x8 adapter, 4x Mini DisplayPort, up to 4 independent displays, works along with onboard DP and HDMI to support up to 6 independent displays;
Max resolution: 5120x2880@60Hz ((up to 2 Mini DisplayPort); 4096x2160@60Hz ((up to 4 Mini DisplayPort)

Monitor cable — Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle, Mini DP to DP

Chipset — **Intel Q370 Chipset**

Front ports (Std.)* one USB 3.1 Gen1 (Always On and fast charge), one USB 3.1 Type-C Gen 1, one microphone (3.5mm), one headphone / microphone combo jack (3.5mm)

Rear ports (Std.)* 2x USB 3.1 Gen2, 2x USB 3.1 Gen1, 1x ethernet (RJ-45), 1x DisplayPort, 1x HDMI

Rear ports (Opt.)* Two optional ports (mutually exclusive with PCIe card): Port 1 for VGA / 2nd DP / 2nd HDMI / serial / USB 3.1 Type-C Gen 1 with DP function); Port 2 for serial; Optional ports via PCIe card: 2x USB 3.1 Gen1 via PCIe x1, 4x serial (9-pin) via PCIe x1, 1x Thunderbolt 3 (combo USB3.1 Type-C Gen 2 / DisplayPort) via PCIe x4
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support — Realtek ALC233VB2 / optional internal speaker (1.5 watt or 2 watt)

WLAN
Some: 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1
Some: 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, Intel vPro technology support, 2x2

Bluetooth — *Some:* Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet — Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®

Ethernet (Opt.) — *Some:* Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4

Manageability — Intel Active Management Technology 12 (Intel AMT 12);
Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip — Discrete TPM 2.0, TCG Certified

Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Chassis intrusion switch
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

Keyboard
Some: Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black
Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black

Mouse
Some: Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black

Mechanical — Tiny (1L), black color; metal case
- Toolless chassis open (need optional toolless chassis screw)
- Toolless HDD, SSD, memory removal
- Optional dust filter

one 2.5" bay for HDD/SSD, one PCIe 3.0 x8 slot (low-profile), three M.2 slots (one for WLAN, two for M.2 SSD), 2.5" HDD/SSD and PCIe card are mutually exclusive

	Dimensions (WxDxH)	Weight (Approx.)
Tiny only	7.05" X 7.20" X 1.36" 179mm X 182.9mm X 34.5mm	2.91 lb (1.32 kg), vary by config
With VESA mount & ODD box	7.42" X 7.30" X 2.48" 188.4mm X 185.38mm X 63mm	3.66 lb (1.66 kg), vary by config

VESA mount — Optional VESA mount bracket kit, supports VESA 75mm and 100mm

Floor Stand — Optional system floor stand for vertical orientation

Power supply — 135 watts AC/DC adapter, autosensing, 88% PSU

Limited warranty
Some: **1-year** or **3-year**, **depot service** / service upgrades available
Some: **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload
Preloaded operating system
Some: Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Preloaded applications (only some listed)
- Lenovo Vantage
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (only for models with DVD / DVD±RW)
- Cyberlink Power2GO (only for models with DVD±RW)
- LinkedIn

Environment — ENERGY STAR® 7.0, EPEAT™ Gold rating (North America), ErP Lot 3, TCO, TUV ultra low noise verified (coming soon, on some models), RoHS-compliant

MIL-SPEC test — MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories — For compatible accessories, please go to **http://smartfind.lenovo.com**

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

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10S10000US	US	i7-8700	vPro	Intel UHD 630	None	16GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10001US	US	i7-8700	vPro	Intel UHD 630	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10002US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10003US	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10004US	US	i7-8700T	vPro	AMD RX 560 4GB	4xMiniDP to DP	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10005US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10006US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10007US	US	Core i5-8500T	vPro	AMD RX 560 4GB	4xMiniDP to DP	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10008US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10009US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000AUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000BUS	US	i7-8700T	vPro	AMD RX 560 4GB	4xMiniDP to DP	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000CUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000DUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000EUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000FUS	US	i7-8700	vPro	Intel UHD 630	None	16GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000GUS	US	i7-8700T	vPro	AMD RX 560 4GB	4xMiniDP to DP	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000HUS	US	i7-8700	vPro	Intel UHD 630	None	16GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10S1000JUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000KUS	US	Core i5-8500T	vPro	AMD RX 560 4GB	4xMiniDP to DP	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000LUS	US	Core i5-8500T	vPro	AMD RX 560 4GB	4xMiniDP to DP	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	None	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000MUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000SUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1000TUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1000UUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000VUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1000WUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1000XUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	16GB Optane Memory + 1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1000YUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd HDMI	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S10010US	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	1TB 7200rpm 2.5"	None	9560 ac, 2x2 + BT5.0	Integrated	2nd DP	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18
10S1001MUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1001NUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1001PUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1001QUS	US	i7-8700	vPro	Intel UHD 630	None	16GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1001RUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	512GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1001SUS	US	i7-8700	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18

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Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Storage(HDD/SSD)	Optical	WLAN + Bluetooth	Ethernet	Optional Rear Ports	Extension Card	Kensington Cable Lock	Adapter Cage	Toolless Chassis Screw	Speaker	Dust Filter	VESA Mount	Stand	Keyboard / Mouse	Power Supply	TUV Low Noise	OS	War-ranty	Ann Date (m/y)
10S1001TUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	1TB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	USB Type-C	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	08/18
10S1001UUS	US	i5-8500	vPro	Intel UHD 630	None	8GBx1	256GB SSD M.2 PCIe NVMe Opal	None	9560 ac, 2x2 + BT5.0	Integrated	VGA + Serial	None	None	None	None	1.5Wx1	None	None	Stand	USB / USB	135W 88% Adapter	None	Win10 Pro 64	3-year, Onsite	07/18

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ThinkSmart Hub 500 Platform Specifications

Positioning	Purpose-built Skype Room Systems device
Processor	7th Gen Intel Core™ i5 Processor with vPro

Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Core i5-7500T	4 / 4	2.7G / 3.3G	6 MB	DDR4-2400	HD 630

Memory	4GBx2, DDR4-2400, two 260-pin SO-DIMM sockets, dual-channel capable
Storage	128GB M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s
Graphics	**Intel HD Graphics 630** in processor, uses main memory, DirectX® 12
Display	**11.6"** (294.64mm) **Full HD 1080p (1920x1080) TFT color**, wide viewing angle (+/-85°), LED backlight, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, anti-glare, smudge resistant
Multi-touch	Supports 10-point touch, OGS
Sensor	IR Presence/Motion sensor, automatically dim / brighten display (Detection angle: +/- 45% (from display); detection distance: 3 meters at minimum)
LED indicators	360 degree LED ring on hinge neck, indicates Skype status for all users in the room; power LED on power button
Chipset	**Intel Q270 Chipset**
Ports*	Four USB 3.1 Gen1(Type A), two HDMI-out, one HDMI-in (1920x1080@60Hz at maximum), one ethernet (RJ-45), one headphone / microphone combo jack (3.5mm), one power connector
	* Depending on many factors, actual data transfer speed may be lower than theoretical speed
M.2 card slot	Two M.2 Card slots (one for WLAN, one for SSD)
Audio support	Dual 4W speakers, 2 omnidirectional microphones for 360 degree audio capture
WLAN[13]	11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265,Wi-Fi + Bluetooth 4.1* combo adapter, Intel vPro technology support, 2x2
Bluetooth™	Bluetooth 4.1* wireless, integrated in Wi-Fi + Bluetooth combo adapter
	* Hardware supports Bluetooth 4.2, but Win10 RS3 only supports Bluetooth 4.1
Ethernet	Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®
Manageability	Intel Active Management Technology 11.0 (Intel AMT 11.0), Intel vPro technology

Security chip	TPM (Trusted Platform Module) 2.0, TCG Certified
Security features	● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis) ● Secure cable management door ● Power-on, admin, hard disk password ● Boot sequence control ● Boot without keyboard and mouse ● USB port disablement
Keyboard	None
Mouse	None
Mechanical	● Business black color ● *(WxDxH)* 7.60" X 10.98" X 7.02"; 193.25mm X 278.9mm X 178.45mm ● Approx. 5.51 lb (2.5 kg) ● Secure Cable Management Door, secures physical ports and prevents cables being accidentally disconnected ● 360 degree rotatable Display
Power supply	90 watts adapter, autosensing, 88% efficiency
Limited warranty[3]	**3-year**, **limited onsite service** / service upgrades available
Preload	**Preloaded operating system** Windows® 10 IoT Enterprise CBB X64 (RS3) **Preloaded applications** Microsoft Skype Room Systems App
Certification	Skype for Business Group Certified
Environment	ErP Lot 26, GREENGUARD® certified, RoHS, WEEE
Accessories	For compatible accessories, please go to **http://www.lenovoquickpick.com**

See footnotes for more detailed information

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(Hub500-Spec) March 2018

Model	Region	Processor	vPro	Graphics	Monitor Cable	Memory	Display	Multi-touch	Power Supply	Storage(HDD/SSD)	WLAN + Bluetooth	Keyboard / Mouse	Operating System	Warranty	End of Support	Ann Date (m/y)
10V50000US	US	i5-7500T	vPro	Intel HD 630	None	4GBx2	11.6" FHD (1920x1080) WVA Anti-glare, smudge resistant	10-point Multi-touch	90W 88% Adapter	128GB SSD M.2 PCIe NVMe	8265 ac, 2x2, vPro + BT4.1	None / None	Windows 10 IoT Enterprise	3-year, Onsite	May 28, 2024	02/18

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ThinkCentre Tiny-in-One (TIO) 22

Model	10LKPAR6++ / 10LKPAT6++
Form factor	Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO 22, clean cabling and effortless setup
Compatible Tiny:	M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny*, M83 Tiny, M73 Tiny*, or M53 Tiny, Chromebox * Non-TIO models can't be turned on by pressing power button of TIO 22
Panel	TFT-LCD, In-Plane Switching (IPS), White LED backlight
Viewable image size	21.5" (546.1mm) diagonal
Max view area (W x H)	18.74" x 10.54" / 476.06mm x 267.79mm
Bezel Width	Top / Side: 2mm, Bottom: 16.3mm
Optimum resolution	**1920x1080**
Aspect ratio	16:9
Pixel pitch (mm)	0.24795mm
Dot/Pixel per Inch	102.4 dpi
Brightness	250 nits or cd/m^2 (typical)
Contrast ratio	1000:1 (typical)
Pixel response time	7ms
Color gamut	72%
Anti-reflective	Anti-glare
Viewing angle at 10:1 CR	178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
Preset resolutions	640x350 @ 70Hz 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz 720x400 @ 70Hz 800x600 @ 60Hz, 72Hz, 75Hz 1024x768 @ 60Hz, 70Hz, 75Hz 1152x864 @75Hz 1280x800 @ 60Hz 1280x1024 @ 60Hz, 72Hz, 75Hz 1366x768 @ 60Hz 1440x900 @ 60Hz, 75Hz 1600x1200 @ 60Hz, 70Hz, 75Hz 1680x1050 @ 60Hz 1920x1080 @ 60Hz
Presets / user settings	Presets: 25; user settings: 25
On screen display	On screen display with digital user controls (8 languages)
Control features	Mode-switching (TIO mode / standalone monitor mode, switches video / audio / USB input sources) / Back button, Left shift button, Right shift / Brightness button, Selection button / Menu button, Power button
Tiny-in-One Power On	Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)
Front ports	Two USB 3.0 or two USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port), one headphone / microphone combo jack (3.5mm) * The USB ports are only available when a Tiny is istalled or a PC is connected via USB upstream port
Side ports	Side ports offered by installed Tiny (optional)
Rear ports	One DisplayPort 1.2 port, one USB upstream port, one power connector
3-in-1 Cable	Undetachable 3-in-1 cable (Power connecter, USB 3.0 [supports USB 3.0/ USB 2.0], DisplayPort 1.2), only for connecting to Tiny installed (optional)
Internal Speaker	1.5 watt x1
Security	Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO 22 together, more security features offered by Tiny installed (optional)

Mechanical

Dimensions	TIO 22 without stand	TIO 22 with stand
W x D x H (inch)	19.25 x 2.65 x 12.47	19.25 x 9.90 x 14.02 - 18.35
W x D x H (mm)	489.06 x 67.2 x 316.78	489.06 x 251.4 x 356.07 - 466.07

Weight (approximately)	11.27 lb /5.11 kg (with stand)

Mounting features	Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Adjustable stand	*Tilt:* 35° back, -5° forward; *lift:* 4.3" (110mm); *swivel:* +/-45°
Power supply	90 watts AC/DC adapter, 88% PSU, universal
Power consumption	15.57 watts typical, 35 watts maximum, <0.5 watts standby / suspend
Limited warranty[3]	**3-years**, Customer Carry-In or Mail-In via Rapid Replacement Service
VESA-compliant[2]	VESA DDC2B/CI, VESA DPMS-compliant
Ergonomics	ISO 9241-307
Emission standards	FCC Class B
Environmental	TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0 EPEAT™ Gold rating, ULE Gold, TUV, VOC
Windows certifications	Windows 7, Windows 8/8.1, and Windows 10 certified
Ship group	TIO 22 (Monitor), detachable stand, AC/DC power adapter, power cord, user's guide and driver CD, quick start and safety poster
Accessories	For compatible accessories, please go to **http://www.lenovoquickpick.com**

ThinkCentre Tiny-in-One 22 Compatible list			
Model	M900 Tiny, M700 Tiny, M600 Tiny, M83 Tiny, M53 Tiny	M93/p Tiny, M73 Tiny	Chromebox
Turn on TIO and Tiny together via Alt + P on USB KB	All models	All models	Not support
Turn on TIO and Tiny together via TIO Power Button	All models	TIO models	All models

See footnotes for more detailed information

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Model	Region	Color	Display Size	Resolution	Aspect Ratio	Pixel Pitch	Dot / Pixel Per Inch	Brightness	Contrast Ratio	Pixel Response Time	Color Gamut	View Angle (H / V)	Stand	Power Comsuption (Typical / Maximum)	Power Supply	Warranty	Ann Date (mm/yy)
10LKPAR6US	US	Black	21.5"	1920x1080	16:9	0.24795 mm	102.4 dpi	250 nits	1000:1	7 ms	72%	178 / 178	Adjustable Stand	15.57W / 35W	90W 88% Adapter	3-year	04/16
10LKPAT6US	US	Black	21.5"	1920x1080	16:9	0.24795 mm	102.4 dpi	250 nits	1000:1	7 ms	72%	178 / 178	Adjustable Stand	15.57W / 35W	90W 88% Adapter	3-year	04/16

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ThinkCentre Tiny-in-One (TIO) 22 Gen3

Model	*Non-touch model:* 10R1PAR1++/10R1PAT1++; *Touch model:* 10R0PAR1++/10R0PAT1++
Form factor	Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO, clean cabling and effortless setup
Compatible Tiny:	M910 / M710 / M900 / M700 / M600 / M715 / M93/p* / M83 / M73* / M53 / Chromebox Tiny * Non-TIO models can't be turned on by pressing power button of TIO
Panel	TFT-LCD, In-Plane Switching technology**, White LED backlight *Notes:* In-Plane Switching may refer to VA, PLS, and IPS panels
Viewable image size	21.5" (546.1mm) diagonal
Max view area (W x H)	18.74" x 10.54" / 476.1mm x 267.8mm
Bezel Width	Top / Side: 2mm, Bottom: 22.1mm
Native resolution	**1920x1080**
Multi-touch	Optional 10-point multi-touch, supports Wake on Touch
Aspect ratio	16:9
Pixel pitch (mm)	0.24795mm
Dot/Pixel per Inch	102.4 dpi
Brightness	250 nits or cd/m² (typical)
Contrast ratio	1000:1 (typical)
Pixel response time	14ms (default), over drive to 4ms, 6ms
Color gamut	72%
Anti-reflective	Anti-glare
Viewing angle at 10:1 CR	178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
Preset resolutions	640x350 @ 70Hz 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz 720x400 @ 70Hz 800x600 @ 60Hz, 72Hz, 75Hz 1024x768 @ 60Hz, 70Hz, 75Hz 1152x864 @75Hz 1280x800 @ 60Hz 1280x1024 @ 60Hz, 72Hz, 75Hz 1366x768 @ 60Hz 1440x900 @ 60Hz, 75Hz 1600x1200 @ 60Hz, 70Hz, 75Hz 1680x1050 @ 60Hz 1920x1080 @ 60Hz
Presets / user settings	Presets: 25; user settings: 25
On screen display	On screen display with digital user controls (8 languages)
Control features	*Ftont:* Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button *Bottom:* Volume up button, Volume down button
Tiny-in-One Power On	Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)
Side ports (TIO)	One USB 3.1 Gen1 / USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port) *Notes:* The USB port is only available when a Tiny is istalled or a PC is connected via USB upstream port
Side ports (Tiny)	Side ports offered by installed Tiny (optional)
Rear ports	One DisplayPort in port, one USB upstream port, one power connector
3-in-1 Cable	Undetachable 3-in-1 cable (Power connecter, USB [supports USB 3.1 Gen1 / USB 2.0], DisplayPort), only for connecting to Tiny installed (optional)
Camera	720p camera with dual microphone for VOIP, LED indicator
Internal Speaker	2 watt x2
Security	Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO together, more security features offered by Tiny installed (optional)

Mechanical

Dimensions	TIO without stand	TIO with stand
W x D x H (inch)	19.26 x 2.85 x 13.35	19.26 x 10.76 x 14.59 - 18.93
W x D x H (mm)	489.3 x 72.5 x 339	489.3 x 273.3 x 370.7 - 480.7
Weight (Approx.)	7.01 lb / 3.19 kg	11.77 lb / 5.34 kg

Mounting features	Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Adjustable stand	*Tilt:* 30° back, -5° forward; *lift:* 4.3" (110mm); *swivel:* +/-45°; *Pivot:* clockwise 0° to 90°
Power supply Power consumption	90 watts AC/DC adapter, 88% PSU, universal 19 watts typical, 32 watts maximum, <0.5 watts standby / suspend
Limited warranty	**3-years**, Customer Carry-In or Mail-In via Rapid Replacement Service
VESA-compliant Ergonomics Emission standards Environmental	VESA DDC2B/CI, VESA DPMS-compliant ISO 9241-307, TUV Eye Comfort certified FCC Class B TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT™ Gold rating, ULE Gold, TUV, VOC
Windows certifications	Windows 7 and Windows 10 certified
Ship group	TIO (Monitor), detachable stand, AC/DC power adapter, power cord, user's guide and driver CD, quick start and safety poster
Accessories	For compatible accessories, please go to **http://www.lenovoquickpick.com**

ThinkCentre Tiny-in-One 22 Gen3 Compatible list

Model	M910 / M710 / M900 / M700 / M600 / M715 / M83 / M53 Tiny	M93/p Tiny, M73 Tiny	Chromebox
Turn on TIO and Tiny together via Alt + P on USB KB	All models	All models	Not support
Turn on TIO and Tiny together via TIO Power Button	All models	TIO models	All models

Model	Product	Region	Color	Display Size	Multi-touch	Resolution	Aspect Ratio	Pixel Pitch	Dot / Pixel Per Inch	Brightness	Contrast Ratio	Pixel Response Time	Color Gamut	View Angle (H / V)	Stand	Power Comsuption (Typical / Maximum)	Power Supply	Warranty	Ann Date (mm/yy)
10R0PAR1US	ThinkCentre Tiny-in-One 22 Gen3	US	Black	21.5"	10-point Multi-touch	1920x1080	16:9	0.24795 mm	102.4 dpi	250 nits	1000:1	4-14 ms	72%	178 / 178	Adjustable Stand	19W / 32W	90W 88% Adapter	3-year	07/17
10R0PAT1US	ThinkCentre Tiny-in-One 22 Gen3	US	Black	21.5"	10-point Multi-touch	1920x1080	16:9	0.24795 mm	102.4 dpi	250 nits	1000:1	4-14 ms	72%	178 / 178	Adjustable Stand	19W / 32W	90W 88% Adapter	3-year	07/17

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Model	Product	Region	Color	Display Size	Multi-touch	Resolution	Aspect Ratio	Pixel Pitch	Dot / Pixel Per Inch	Brightness	Contrast Ratio	Pixel Response Time	Color Gamut	View Angle (H / V)	Stand	Power Comsuption (Typical / Maximum)	Power Supply	Warranty	Ann Date (mm/yy)
10R1PAR1US	ThinkCentre Tiny-in-One 22 Gen3	US	Black	21.5"	None	1920x1080	16:9	0.24795 mm	102.4 dpi	250 nits	1000:1	4-14 ms	72%	178 / 178	Adjustable Stand	19W / 32W	90W 88% Adapter	3-year	07/17
10R1PAT1US	ThinkCentre Tiny-in-One 22 Gen3	US	Black	21.5"	None	1920x1080	16:9	0.24795 mm	102.4 dpi	250 nits	1000:1	4-14 ms	72%	178 / 178	Adjustable Stand	19W / 32W	90W 88% Adapter	3-year	07/17

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ThinkCentre Tiny-in-One (TIO) 24

Model	10LLPAR6++ / 10LLPAT6++
Form factor	Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO 24, clean cabling and effortless setup
Compatible Tiny:	M900 Tiny, M700 Tiny, M600 Tiny, M93/p Tiny*, M83 Tiny, M73 Tiny*, or M53 Tiny, Chromebox * Non-TIO models can't be turned on by pressing power button of TIO 24
Panel	TFT-LCD, In-Plane Switching (IPS), White LED backlight
Viewable image size	23.8" (604.7mm) diagonal
Max view area (W x H)	21.06" x 12.32" / 535.0mm x 313.0mm
Bezel Width	Top / Side: 2mm, Bottom: 16.3mm
Optimum resolution	**1920x1080**
Aspect ratio	16:9
Pixel pitch (mm)	0.2745mm
Dot/Pixel per Inch	92.6 dpi
Brightness	250 nits or cd/m^2 (typical)
Contrast ratio	1000:1 (typical)
Pixel response time	7ms
Color gamut	72%
Anti-reflective	Anti-glare
Viewing angle at 10:1 CR	178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
Preset resolutions	640x350 @ 70Hz 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz 720x400 @ 70Hz 800x600 @ 60Hz, 72Hz, 75Hz 1024x768 @ 60Hz, 70Hz, 75Hz 1152x864 @75Hz 1280x800 @ 60Hz 1280x1024 @ 60Hz, 72Hz, 75Hz 1366x768 @ 60Hz 1440x900 @ 60Hz, 75Hz 1600x1200 @ 60Hz, 70Hz, 75Hz 1680x1050 @ 60Hz 1920x1080 @ 60Hz
Presets / user settings	Presets: 25; user settings: 25
On screen display	On screen display with digital user controls (8 languages)
Control features	Mode-switching (TIO mode / standalone monitor mode, switches video / audio / USB input sources) / Back button, Left shift button, Right shift / Brightness button, Selection button / Menu button, Power button
Tiny-in-One Power On	Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)
Front ports	Two USB 3.0 or two USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port), one headphone / microphone combo jack (3.5mm) * The USB ports are only available when a Tiny is istalled or a PC is connected via USB upstream port
Side ports	Side ports offered by installed Tiny (optional)
Rear ports	One DisplayPort 1.2 port, one USB upstream port, one power connector
3-in-1 Cable	Undetachable 3-in-1 cable (Power connecter, USB 3.0 [supports USB 3.0/ USB 2.0], DisplayPort 1.2), only for connecting to Tiny installed (optional)
Internal Speaker	1.5 watt x1
Security	Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO 24 together, more security features offered by Tiny installed (optional)

Mechanical

Dimensions	TIO 24 without stand	TIO 24 with stand
W x D x H (inch)	21.24 x 2.7 x 13.64	21.24 x 9.90 x 15.16 - 19.46
W x D x H (mm)	539.6 x 68.2 x 346.45	539.6 x 251.4 x 385.08 - 495.08

Weight (approximately)	12.25 lb /5.57 kg (with stand)

Mounting features	Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Adjustable stand	*Tilt:* 35° back, -5° forward; *lift:* 4.3" (110mm); *swivel:* +/-45°
Power supply	90 watts AC/DC adapter, 88% PSU, universal
Power consumption	16.7 watts typical, 35 watts maximum, <0.5 watts standby / suspend
Limited warranty[3]	**3-years**, Customer Carry-In or Mail-In via Rapid Replacement Service
VESA-compliant[2]	VESA DDC2B/CI, VESA DPMS-compliant
Ergonomics	ISO 9241-307
Emission standards	FCC Class B
Environmental	TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0 EPEAT™ Gold rating, ULE Gold, TUV, VOC
Windows certifications	Windows 7, Windows 8/8.1, and Windows 10 certified
Ship group	TIO 24 (Monitor), detachable stand, AC/DC power adapter, power cord, user's guide and driver CD, quick start and safety poster
Accessories	For compatible accessories, please go to **http://www.lenovoquickpick.com**

ThinkCentre Tiny-in-One 24 Compatible list			
Model	M900 Tiny, M700 Tiny, M600 Tiny, M83 Tiny, M53 Tiny	M93/p Tiny, M73 Tiny	Chromebox
Turn on TIO and Tiny together via Alt + P on USB KB	All models	All models	Not support
Turn on TIO and Tiny together via TIO Power Button	All models	TIO models	All models

See footnotes for more detailed information

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Model	Region	Color	Display Size	Resolution	Aspect Ratio	Pixel Pitch	Dot / Pixel Per Inch	Brightness	Contrast Ratio	Pixel Response Time	Color Gamut	View Angle (H / V)	Stand	Power Comsuption (Typical / Maximum)	Power Supply	Warranty	Ann Date (mm/yy)
10LLPAR6US	US	Black	23.8"	1920x1080	16:9	0.2745 mm	92.6 dpi	250 nits	1000:1	7 ms	72%	178 / 178	Adjustable Stand	16.7W / 35W	90W 88% Adapter	3-year	05/16
10LLPAT6US	US	Black	23.8"	1920x1080	16:9	0.2745 mm	92.6 dpi	250 nits	1000:1	7 ms	72%	178 / 178	Adjustable Stand	16.7W / 35W	90W 88% Adapter	3-year	05/16

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ThinkCentre Tiny-in-One (TIO) 24 Gen3

Model	*Non-touch model:* 10QYPAR1++/10QYPAT1++; *Touch model:* 10QXPAR1++/10QXPAT1++
Form factor	Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO, clean cabling and effortless setup
Compatible Tiny:	M910 / M710 / M900 / M700 / M600 / M715 / M93/p* / M83 / M73* / M53 / Chromebox Tiny * Non-TIO models can't be turned on by pressing power button of TIO
Panel	TFT-LCD, In-Plane Switching technology**, White LED backlight *Notes:* In-Plane Switching may refer to VA, PLS, and IPS panels
Viewable image size	23.8" (604.7mm) diagonal
Max view area (W x H)	21.06" x 12.32" / 535.0mm x 313.0mm
Bezel Width	Top / Side: 2mm, Bottom: 22.1mm
Native resolution	**1920x1080**
Multi-touch	Optional 10-point multi-touch, supports Wake on Touch
Aspect ratio	16:9
Pixel pitch (mm)	0.2745mm
Dot/Pixel per Inch	92.6 dpi
Brightness	250 nits or cd/m^2 (typical)
Contrast ratio	1000:1 (typical)
Pixel response time	14ms (default), over drive to 4ms, 6ms
Color gamut	72%
Anti-reflective	Anti-glare
Viewing angle at 10:1 CR	178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
Preset resolutions	640x350 @ 70Hz 640x480 @ 60Hz, 67Hz, 72Hz, 75Hz 720x400 @ 70Hz 800x600 @ 60Hz, 72Hz, 75Hz 1024x768 @ 60Hz, 70Hz, 75Hz 1152x864 @75Hz 1280x800 @ 60Hz 1280x1024 @ 60Hz, 72Hz, 75Hz 1366x768 @ 60Hz 1440x900 @ 60Hz, 75Hz 1600x1200 @ 60Hz, 70Hz, 75Hz 1680x1050 @ 60Hz 1920x1080 @ 60Hz
Presets / user settings	Presets: 25; user settings: 25
On screen display	On screen display with digital user controls (8 languages)
Control features	Ftont: Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button Bottom: Volume up button, Volume down button
Tiny-in-One Power On	Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)
Side ports (TIO)	One USB 3.1 Gen1 / USB 2.0 (when M73 or M53 installed or USB 2.0 connected via USB upstream port) *Notes:* The USB port is only available when a Tiny is istalled or a PC is connected via USB upstream port
Side ports (Tiny)	Side ports offered by installed Tiny (optional)
Rear ports	One DisplayPort in port, one USB upstream port, one power connector
3-in-1 Cable	Undetachable 3-in-1 cable (Power connecter, USB [supports USB 3.1 Gen1 / USB 2.0], DisplayPort), only for connecting to Tiny installed (optional)
Camera	1080p camera with dual microphone for VOIP, LED indicator
Internal Speaker	2 watt x2
Security	Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO together, more security features offered by Tiny installed (optional)

Mechanical

Dimensions	TIO without stand	TIO with stand
W x D x H (inch)	21.25 x 2.85 x 14.47	21.25 x 11.11 x 15.72 - 20.06
W x D x H (mm)	539.8 x 72.5 x 367.6	539.8 x 282.3 x 399.4 - 509.4
Weight (Approx.)	7.96 lb /3.61 kg	12.92 lb /5.86 kg

Mounting features	Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Adjustable stand	*Tilt:* 30° back, -5° forward; *lift:* 4.3" (110mm); *swivel:* +/-45°; *Pivot:* clockwise 0° to 90°
Power supply	90 watts AC/DC adapter, 88% PSU, universal
Power consumption	19 watts typical, 32 watts maximum, <0.5 watts standby / suspend
Limited warranty	**3-years**, Customer Carry-In or Mail-In via Rapid Replacement Service
VESA-compliant	VESA DDC2B/CI, VESA DPMS-compliant
Ergonomics	ISO 9241-307, TUV Eye Comfort certified
Emission standards	FCC Class B
Environmental	TCO 7.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT™ Gold rating, ULE Gold, TUV, VOC
Windows certifications	Windows 7 and Windows 10 certified
Ship group	TIO 24 (Monitor), detachable stand, AC/DC power adapter, power cord, user's guide and driver CD, quick start and safety poster
Accessories	For compatible accessories, please go to **http://www.lenovoquickpick.com**

ThinkCentre Tiny-in-One 24 Gen3 Compatible list

Model	M910 / M710 / M900 / M700 / M600 / M715 / M83 / M53 Tiny	M93/p Tiny, M73 Tiny	Chromebox
Turn on TIO and Tiny together via Alt + P on USB KB	All models	All models	Not support
Turn on TIO and Tiny together via TIO Power Button	All models	TIO models	All models

Model	Product	Region	Color	Display Size	Multi-touch	Resolution	Aspect Ratio	Pixel Pitch	Dot / Pixel Per Inch	Brightness	Contrast Ratio	Pixel Response Time	Color Gamut	View Angle (H / V)	Stand	Power Comsuption (Typical / Maximum)	Power Supply	Warranty	Ann Date (mm/yy)
10QXPAR1US	ThinkCentre Tiny-in-One 24 Gen3	US	Black	23.8"	10-point Multi-touch	1920x1080	16:9	0.2745 mm	92.6 dpi	250 nits	1000:1	4-14 ms	72%	178 / 178	Adjustable Stand	19W / 32W	90W 88% Adapter	3-year	07/17
10QXPAT1US	ThinkCentre Tiny-in-One 24 Gen3	US	Black	23.8"	10-point Multi-touch	1920x1080	16:9	0.2745 mm	92.6 dpi	250 nits	1000:1	4-14 ms	72%	178 / 178	Adjustable Stand	19W / 32W	90W 88% Adapter	3-year	07/17

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Model	Product	Region	Color	Display Size	Multi-touch	Resolution	Aspect Ratio	Pixel Pitch	Dot / Pixel Per Inch	Brightness	Contrast Ratio	Pixel Response Time	Color Gamut	View Angle (H / V)	Stand	Power Comsuption (Typical / Maximum)	Power Supply	Warranty	Ann Date (mm/yy)
10QYPAR1US	ThinkCentre Tiny-in-One 24 Gen3	US	Black	23.8"	None	1920x1080	16:9	0.2745 mm	92.6 dpi	250 nits	1000:1	4-14 ms	72%	178 / 178	Adjustable Stand	19W / 32W	90W 88% Adapter	3-year	07/17
10QYPAT1US	ThinkCentre Tiny-in-One 24 Gen3	US	Black	23.8"	None	1920x1080	16:9	0.2745 mm	92.6 dpi	250 nits	1000:1	4-14 ms	72%	178 / 178	Adjustable Stand	19W / 32W	90W 88% Adapter	3-year	07/17

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ThinkCentre Tiny-in-One (TIO) 27

Form factor	Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO, clean cabling and effortless setup
Compatible Tiny:	ThinkCentre Tiny, ThinkCentre Nano, and ThinkStaion Tiny
Panel	TFT-LCD, In-Plane Switching technology**, White LED backlight ***Notes:* In-Plane Switching may refer to IPS, PLS, ADS, AHVA, and AA
Viewable image size	27" (685.8mm) diagonal
Max view area (W x H)	23.49" x 13.22" / 596.7mm x 335.7mm
Bezel Width	Top / Side: 2mm, Bottom: 23.3mm
Native resolution	**2560x1440**
Multi-touch	None
Aspect ratio	16:9
Pixel pitch (mm)	0.2331mm
Dot/Pixel per Inch	109 dpi
Brightness	350 nits or cd/m^2 (typical)
Contrast ratio	1000:1 (typical)
Pixel response time	14ms (default), over drive to 4ms, 6ms
Color gamut	99% sRGB
Anti-glare	Yes (25%)
Viewing angle at 10:1 CR	178° (+/- 89°) horizontal, 178° (+/- 89°) vertical
Preset resolutions	640x350 @ 70Hz 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz 720x400 @ 70Hz 800x600 @ 60Hz, 72Hz, 75Hz 1024x768 @ 60Hz, 70Hz, 75Hz 1152x864 @75Hz 1280x768 @ 60Hz 1280x800 @ 60Hz 1280x1024 @ 60Hz, 72Hz, 75Hz 1366x768 @ 60Hz 1440x900 @ 60Hz, 75Hz 1600x1200 @ 60Hz, 70Hz, 75Hz 1680x1050 @ 60Hz 1920x1080 @ 60Hz 2560x1440 @ 60Hz
Presets / user settings	Presets: 27; user settings: 25
On screen display	On screen display with digital user controls (8 languages)
Control features	Ftont: Exit button, Left / Mode-switching button (TIO / monitor mode), Right / Brightness button, Enter / Menu button, Power button Bottom: Volume up button, Volume down button
Tiny-in-One Power On	Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some support, see Compatible Matrix)
Side ports (TIO)	Two USB 3.1 Gen1 (downgrade to USB 2.0 when installing M73 or M53 or connecting USB 2.0 via USB upstream port), one headphone / microphone combo jack *Notes:* The USB ports are enabled by installing a Tiny or connecting USB upstream port; the audio port is enabled by installing a Tiny or connecting USB upstream, DisplayPort(in), or HDMI(in) port
Side ports (Tiny)	Side ports offered by the installed Tiny (optional)
Rear ports	One DisplayPort(in) port, one HDMI(in) port, one USB (Type-B) upstream port, one power connector
3-in-1 Cable	Undetachable 3-in-1 cable, connecting to the power connecter, one USB, and one DisplayPort of the installed Tiny (optional)
Camera	RGBIR camera with dual microphone, supports Window Hello and Facial Recognition, Think Shutter for Privacy Security, LED indicator
Internal Speaker	2 watt x2
Security	Security keyhole for attachment of optional cable lock (Kensington® lock compatible), locks optional Tiny with TIO together, more security features offered by Tiny installed (optional)

Mechanical

	TIO without stand	TIO with stand
Dimensions (W x D x H mm / inch)	614.0 x 73.89 x 413.1 / 24.17 x 2.91 x 16.26	614.0 x 329.0 x 444.25 - 554.25 / 24.17 x 12.95 x 17.49 - 21.82
Weight (Approx.)	4.91 kg / 10.82 lb	7.95 kg / 17.53 lb

Mounting features	Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPMI® (100mm mount)
Adjustable stand	*Tilt:* 35° back, -5° forward; *lift:* 4.3" (110mm); *swivel:* +/-45°; *Pivot:* clockwise -5° to 90°
Power supply	170 watts adapter, 88% PSU, universal
Power consumption	37 watts typical, 57 watts maximum, <0.5 watts standby / suspend
Limited warranty	**3-years**, Product Exchange Service (US and EMEA) or Customer Carry-In Service (EMEA)
VESA-compliant	VESA DDC/CI, VESA DPMS-compliant
Ergonomics	ISO 9241-307, TUV Eye Comfort certified
Emission standards	FCC Class B
Environmental	TCO 8.0, TCO Edge 2.0, WEEE, RoHS, ENERGY STAR® 7.0, EPEAT™ Bronze rating, ULE Gold, TUV, VOC
Windows certifications	Windows 7 and Windows 10 certified
Ship group	TIO 27 (Monitor), detachable stand, power adapter, power cord, reference and driver CD
Accessories	For compatible accessories, please go to **http://smartfind.lenovo.com**

ThinkCentre Tiny-in-One 27 Compatible Matrix

Model	P320 / P330 / M920(x) / M720 / M910(x) / M710 / M900(x) / M700 / M600 / M715 / M83 / M53 Tiny	M93/p Tiny, M73 Tiny	Chromebox
Turn on TIO and Tiny together via Alt + P on USB KB	All models	All models	Not support
Turn on TIO and Tiny together via TIO Power Button	All models	TIO models	All models

ThinkCentre Tiny-In-One 27 - 10YF

Product Specifications Reference (PSREF)

Model	Product	Region	Color	Display Size	Multi-touch	Resolution	Aspect Ratio	Pixel Pitch	Dot / Pixel Per Inch	Brightness	Contrast Ratio	Pixel Response Time	Color Gamut	View Angle (H / V)	Stand	Power Comsuption (Typical / Maximum)	Power Supply	Warranty	Ann Date (mm/yy)
10YFRAR1US	ThinkCentre Tiny-in-One 27	US	Black	27"	None	2560x1440	16:9	0.2331 mm	109 dpi	350 nits	1000:1	4 - 14 ms	99% sRGB	178 / 178	Adjustable Stand	37W / 57W	170W 88% Adapter	3-year	02/19

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Expedited Depot: Parts and labor coverage with expedited turnaround. Shipping (including packaging) or delivery to the repair center is paid for by Lenovo.
Onsite / In-home Service: Parts and labor repair coverage where labor is provided onsite at your place of business.
If Lenovo determines your product problem is covered by the product warranty and cannot be resolved over the telephone, a technician will be dispatched to arrive onsite, typically the next day.
International Warranty Service (IWS): PC repair coverage for customers who require a critical warranty repair while travelling internationally. Visit www.lenovo.com/internationalwarranty for details.
Visit www.lenovo.com/warranty for Lenovo Warranty Services terms and conditions for complete details and restrictions.

Included software: may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

Battery life: Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

Visit **http://psref.lenovo.com/** for the latest version of Product Specifications Reference.

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