ThinkCentre M820z AIO 10SC002WMC

Product
ThinkCentre M820z AIO

Region
EET

Country/Region
Czech Republic

Machine Type
10SC

TopSeller
TopSeller

Processor
Intel Core i5-9400 (6C / 6T, 2.9 / 4.1GHz, 9MB)

Chipset
Intel B360 Chipset

Graphics
Integrated Intel UHD Graphics 630

Memory
1x 8GB DDR4-2666

Storage
1x 256GB SSD M.2 2280 PCIe x4 NVMe

Optane Memory
None

Optional Bay
None

Front Access HDD
None

Optical
DVD±RW

Media Reader
3-in-1

Display
21.5" FHD (1920x1080) WVA Anti-glare

Multi-touch
None

Microphone
2x, Array

Camera
1080p

Speaker
2Wx2

Ethernet
Integrated 100/1000M

WLAN + Bluetooth
Intel 8265 11ac, 2x2 + BT4.2

Optional Rear Ports
None

Chassis Intrusion Switch
Chassis Intrusion Switch

Chassis E-Lock
None

Kensington Cable Lock
None

Dust Filter
None

VESA Mount
VESA mount

Carry Handle
None

Color
Black

Stand
UltraFlex III Stand

Keyboard
USB Traditional Keyboard, Czech

Mouse
USB Calliope Mouse

Power Supply
150W 90% Adapter

TUV Low Noise
TUV Ultra Low Noise

Monitor Cable
None

System Management
None

Operating System
Windows 10 Pro 64, Czech / English

Bundled Software
None

Base Warranty
3-year, Onsite

Bundled Service
None

End of Support
2025-08-02

Announce Date
2019-07-02

Recommended Services

Better
4Y Premier Support Upgrade from 3Y Onsite (5WS0T36184)

Good
3Y Premier Support Upgrade from 3Y Onsite (5WS0U26648)

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ThinkCentre M820z Platform Specifications

Processor — Intel® Celeron®, Intel Pentium®, or 8th / 9th Gen Intel Core™ i3 / i5 / i7 / i9 series

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
Celeron G4930	2 / 2	3.2G	2 MB	DDR4-2400	UHD 610
Celeron G4950	2 / 2	3.3G	2 MB	DDR4-2400	UHD 610
Pentium Gold G5400	2 / 4	3.7G	4 MB	DDR4-2400	UHD 610
Pentium Gold G5420	2 / 4	3.8G	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
Pentium Gold G5620	2 / 4	4.0G	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
Core i3-9100	4 / 4	3.6G / 4.2G	6 MB	DDR4-2400	UHD 630
Core i3-9300	4 / 4	3.7G / 4.3G	8 MB	DDR4-2400	UHD 630
Core i5-9400	6 / 6	2.9G / 4.1G	9 MB	DDR4-2666	UHD 630
Core i5-9500	6 / 6	3.0G / 4.4G	9 MB	DDR4-2666	UHD 630
Core i5-9600	6 / 6	3.1G / 4.6G	9 MB	DDR4-2666	UHD 630
Core i7-9700	8 / 8	3.0G / 4.7G	12 MB	DDR4-2666	UHD 630
Core i9-9900	8 / 16	3.1G / 5.0G	16 MB	DDR4-2666	UHD 630

Memory — 32GB max (16GB SO-DIMM only available via special bid models), 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 (2242 / 2280) / PCIe NVMe, PCIe 3.0 x2 or PCIe 3.0 x4
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 — *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, 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 13.2 to 16.4 (inch) 491 X 252 X 335 to 417 (mm)	(Touch) 17.3 / 7.85 (Non-touch) 16.9 / 7.65	Tilt: 70° back, -5° forward; Lift: up to 136mm (flat mode) / up to 82mm (vertical mode); 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™ Silver 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.

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