

ThinkCentre M820z AIO 10SC003BUS

Product

ThinkCentre M820z AIO

Region

NA

Country/Region

USA

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 Card Reader

Display

21.5" FHD (1920x1080) In-Plane Switching Technology Anti-glare

Touchscreen

10-point Multi-touch

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

None

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, Black, English

Mouse

USB Calliope Mouse

Power Supply

150W 90% Adapter

TUV Low Noise

None

Monitor Cable

None

System Management

None

Operating System

Windows 10 Pro 64, English

Bundled Software

None

Base Warranty

3-year, Onsite

Bundled Service

None

EAN / UPC / JAN

194632894868

End of Support

2026-01-24

Announce Date

2019-12-24

Recommended Services**Best**

4Y Lenovo Support (Premier Support + Keep Your Drive) (5PS0N73243)

Better

4Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection) (5PS0N73191)

Good

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

Notes:**California Electronic Waste Recycling Fee**

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to: <https://www.calrecycle.ca.gov/Electronics/Consumer>

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ThinkCentre M820z Platform Specifications

Product Specifications Reference (PSREF)



Processor	Intel® Celeron®, Intel Pentium®, or 8th / 9th Gen Intel Core™ i3 / i5 / i7 / i9 series						WLAN <i>Some:</i> 11ac wireless, M.2 Card, Realtek RTL8821CE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 1x1 <i>Some:</i> 11ac wireless, M.2 Card, Realtek RTL8822BE (dual band), Wi-Fi + Bluetooth 4.2 combo adapter, 2x2 <i>Some:</i> 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 3165, Wi-Fi + Bluetooth 4.2 combo adapter, 1x1 <i>Some:</i> 11ac wireless, M.2 Card, Intel Dual Band Wireless-AC 8265, Wi-Fi + Bluetooth 4.2 combo adapter, 2x2 Bluetooth™ Ethernet <i>Some:</i> Bluetooth 4.2 wireless, integrated in Wi-Fi + BT combo adapter Gigabit ethernet, Realtek RTL8111G, Wake on LAN®																							
	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																								
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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	<i>Some:</i> Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" <i>Some:</i> M.2 SSD (2242 / 2280) / PCIe NVMe, PCIe 3.0 x2 or PCIe 3.0 x4 <i>Some:</i> Intel Optane™ Memory (not support Celeron / Pentium Processor), M.2 <i>Some:</i> DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm) <i>Some:</i> DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)																													
Optical	Optional 3-in-1 media card reader																													
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Graphics	Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, external monitor support via DisplayPort™; <i>Max resolution:</i> 4096x2304 (DP) @60Hz, 1920x1080 (Panel) @60Hz 21.5" (546.1mm) Full HD 1080p (1920x1080) TFT color , Borderless design, TFT-LCD, In-Plane Switching technology (In-Plane Switching may refer to IPS, PLS, ADS, AHVA, and AA), wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, support Low Blue Light Mode Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology Optional 1080p camera, with dual microphone, LED indicator, physical switch on/off, supports multi-degree rotation (horizontal 0° to 180°, vertical -25° to 25°)																													
Display	Physical buttons on side for microphone mute and power on/off																													
Multi-touch	Intel B360 Chipset																													
Camera	Four USB 3.1 Gen1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort, one optional serial (9-pin), 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																													
Controls	Two M.2 Card slots (one for WLAN, one for SSD/Optane)																													
Chipset	High Definition (HD) Audio, Realtek ALC233 / two internal speakers (2W x 2), Dolby® Audio™ Premium																													
Rear ports*	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																													
Side ports*	MIL-STD-810G military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus)																													
M.2 card slot	For compatible accessories, please go to http://smartfind.lenovo.com																													
Audio support	None Discrete TPM 2.0, TCG Certified																													
Security features	<ul style="list-style-type: none"> 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	<i>Some:</i> Lenovo Calliope Keyboard (USB connector), black <i>Some:</i> Lenovo Traditional Keyboard (USB connector), black <i>Some:</i> Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black <i>Some:</i> Lenovo Calliope Mouse (USB connector), black <i>Some:</i> Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black <i>Some:</i> Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black																													
Mouse	<ul style="list-style-type: none"> Business black color Toolless back cover, stand, memory removal Support VESA mount (100mm) <table border="1"> <thead> <tr> <th>Dimensions (WxDxH)</th> <th>Max weight (lb / kg)</th> <th>Adjustments</th> </tr> </thead> <tbody> <tr> <td colspan="3">Without stand (No camera):</td> </tr> <tr> <td>19.3 X 1.9 X 12.6 (inch) 491 X 49 X 321 (mm)</td> <td>(Touch) 11.6 / 5.25 (Non-touch) 11.1 / 5.05</td> <td>N/A</td> </tr> <tr> <td colspan="3">With Full Function Monitor stand (No camera):</td> </tr> <tr> <td>19.3 X 9.9 X 14.8 to 19.1 (inch) 491 X 252 X 377 to 486 (mm)</td> <td>(Non-touch) 15.8 / 7.18</td> <td>Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°</td> </tr> <tr> <td colspan="3">With UltraFlex III stand (No camera):</td> </tr> <tr> <td>19.3 X 9.9 X 13.2 to 16.4 (inch) 491 X 252 X 335 to 417 (mm)</td> <td>(Touch) 17.3 / 7.85 (Non-touch) 16.9 / 7.65</td> <td>Tilt: 70° back, -5° forward; Lift: up to 136mm (flat mode) / up to 82mm (vertical mode); Swivel: +/-45°</td> </tr> <tr> <td colspan="3">Note: Camera adds 22mm in height (Vertical)</td> </tr> </tbody> </table>						Dimensions (WxDxH)	Max weight (lb / kg)	Adjustments	Without stand (No camera):			19.3 X 1.9 X 12.6 (inch) 491 X 49 X 321 (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°	Note: Camera adds 22mm in height (Vertical)		
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Mechanical	150 watts, autosensing, 90% PSU																													
Power supply	Limited warranty ³ <i>Some:</i> 1-year or 3-year, depot repair service / service upgrades available <i>Some:</i> 1-year or 3-year, limited onsite service / service upgrades available																													
Limited warranty ³	Preloaded operating system <i>Some:</i> Windows 10 Pro 64-bit <i>Some:</i> Windows 10 Home 64-bit Preloaded applications (only some listed) <ul style="list-style-type: none"> 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 																													
Preload	Environment																													
Environment	MIL-SPEC test																													
MIL-SPEC test	Accessories																													
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Note: The specifications above may not be available in all regions.

Lenovo, June 2019

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