ThinkCentre M820z AIO 10SC001Y++

Region
EMEA

Machine Type
10SC

TopSeller
TopSeller

Processor
Core i3-8100 (4C, 3.6GHz, 6MB)

vPro
No

Graphics
Integrated Intel UHD Graphics 630

Monitor Cable
None

Memory
8GBx1

Storage
256GB SSD M.2 PCIe NVMe Opal

Optical
DVD±RW

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

Multi-touch
None

Media Reader
3-in-1

WLAN + Bluetooth
Intel 3165 ac, 1x1 + BT4.2

Optional Rear Ports
None

Chassis Intrusion Switch
Chassis Intrusion Switch

Camera
1080p

Speaker
2Wx2

Stand
UltraFlex III Stand

Keyboard / Mouse
USB / USB

Power Supply
150W 90%

TUV Low Noise
TUV Ultra Low Noise

Operating System
Windows 10 Pro 64

Warranty
3-year, Onsite

End of Support
Aug 24, 2024

Ann Date (mm/yy)
07/18

Note:
Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "**" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries

www.lenovo.com

This publication was developed for products and services offered in the United States and E.M.E.A countries. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifcations or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication “as is” without warranty of any kind, either express or implied, including the implied warranties of merchantability or ftness for a particular purpose.

http://psref.lenovo.com
Visit psref website for the latest version of Product Specifcations Reference.

© Lenovo, 2018. All rights reserved.

ThinkCentre M820z 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

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)

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.

ThinkCentre M820z AIO