

ThinkCentre M820z Platform Specifications

Product Specifications Reference (PSREF)

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|-------------------------------|---|-----------------|--|-----------|--|---------------------|--|
| Processor | Intel® Celeron®, Intel Pentium®, or 8th Generation Intel Core™ i3 / i5 / i7 Processor | | | | | | 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 |
| | 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 | <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 / 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 <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 | | | | | | |
| 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™; <i>Max resolution:</i> 4096x2304 (DP)@60Hz, 1920x1080 (Panel)@60Hz 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 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°) Physical buttons on side for microphone mute and power on/off | | | | | | |
| Display | Intel B360 Chipset | | | | | | |
| Multi-touch | Four USB 3.1 Gen1 (one supports Smart Power On), one ethernet (RJ-45), one DisplayPort, one optional serial (9-pin), | | | | | | |
| Camera | 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) | | | | | | |
| 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 | None | | | | | | |
| Side ports | Discrete TPM 2.0, TCG Certified | | | | | | |
| M.2 card slot | <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 | | | | | | |
| Audio support | <i>Some:</i> Bluetooth 4.2/5.0 wireless, integrated in Wi-Fi + BT combo adapter Gigabit ethernet, Realtek RTL8111G, Wake on LAN® | | | | | | |
| WLAN ¹³ | None | | | | | | |
| Bluetooth™ | None | | | | | | |
| Ethernet | None | | | | | | |
| Manageability | None | | | | | | |
| Security chip | Discrete TPM 2.0, TCG Certified | | | | | | |
| 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 | | | | | | |
| Mouse | <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 | | | | | | |
| Mechanical | <ul style="list-style-type: none"> • 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 | <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 | | | | | | |
| Preload | 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 | | | | | | |
| 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.

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