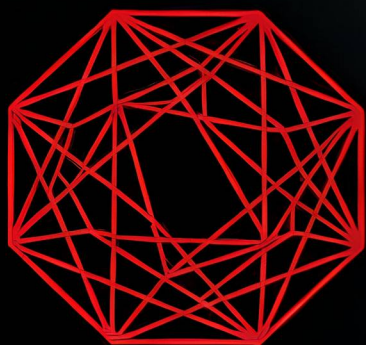




signalz.ca
information technology

**The Lenovo ThinkCentre M720e
Massively Upgraded Computer**

Lenovo ThinkCentre M720e Upgraded Mini Tower Workstation



Simplified Specifications:

CPU: 3+ GHz, 4-Core, Intel i5 7th Gen CPU

RAM: 32 G Gigastone DDR4 RAM

SSDs: 2.5 T Mixed Drives: 1 T M.2 PCIe, 1 T M.2 SATA-3, 512 G SATA-3, M.2 Heatsink, Sabrent Dual 2.5" SSD Dock, Sabrent M.2 SATA-3 to 2.5" SATA-3

NETWORKING: UGreen Bluetooth 6 Adapter, TPLink WiFi 6 Adapter, Internal Gigabit Ethernet

VIDEO: SAPLOS (nVidia) GT 730 4GB Graphics Card, PCIe 8x, 3 Digital Simultaneous Video Output

AUDIO: Creative Labs Sound Blaster Play! 3 External USB Sound Adapter Upgrade to 24-Bit, 96Khz Playback.

CHASIS: Mini Desktop Box, Including CPU, Motherboard, DVD-R, USB 3.0, Serial DB-9, 180 Watt Power Supply

CABLES: 1x Power Cord, SATA Data and Power Cables, 1x 6ft HDMI Cable, 1x 7 ft Ethernet Cable, 1x USB 3.0 4-Port Adapter, 1x USB 2.0 4-Port Adapter

System RAM Memory



Gigastone 32 G RAM @ 2x 16 G, DDR-4
1.2V UDIMM 288 Pin Unbuffered Non ECC High
Performance PC Desktop Memory Upgrade

\$80 CAD



Long-Term Storage



TimeTec 1 T SATA SSD @ 6 Gbits: For Archiving

\$80 CAD



TimeTec 1T PCIe Gen 4 SSD: For Boot/Startup Drive

\$100 CAD



TimeTec 512 G 2.5" SSD @ 6 Gbits: For Documents

\$50 CAD



SABRENT M.2 SATA SSD to SATA 2.5 Enclosure
Adapter, M.2 Converter to SATA III Aluminum

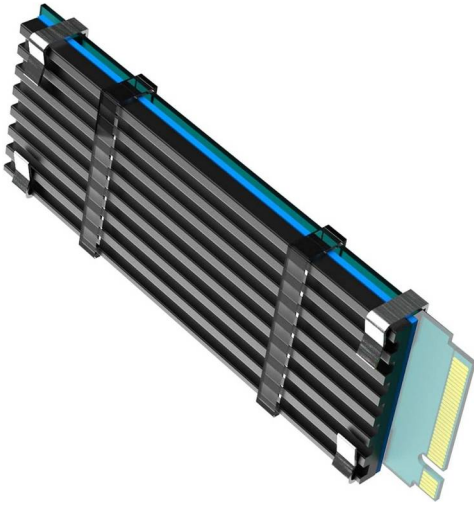
\$20 CAD



SABRENT Dual 2.5" HDD SSD to 3.5" mounting Frame,
Internal Hard Disk mounting kit Adapter, Removable
Frame Bracket kit

\$20 CAD

Long-Term Storage



GLOTRENDS M.2 Heatsink for 2280 M.2 SSD, Fit for Slim Installation, 22x70x3mm Aluminum Body, Including Thermal Pad

\$10 CAD

Wireless Connectivity



UGREEN Bluetooth 6.0 Adapter for PC, USB Bluetooth Dongle Receiver: EDR & BLE, Plug & Play for Windows for Headphone/Keyboard/Mouse/Speakers/Printer

\$20 CAD



TP-Link AX1800 Nano USB WiFi 6 Adapter for PC (Archer TX20U Nano): 2.4G/5G Dual-Band Wireless Network Transceiver Adapter for Desktop PC, OFDMA, MU-MIMO, WPA3, Travel Size

\$30 CAD

Video/Graphics Card



SAPLOS GT 730 (nVidia) 4GB Graphics Card, 2 HDMI, DisplayPort, DDR3 64-bit, Low Profile Video Card PC, Computer GPU, Low Power, PCI Express x8, DirectX 12. This card can support three simultaneous digital monitor outputs to mirror or extend your display.

\$120 CAD

Audio/Sound Card



Creative Labs Sound Blaster Play! 3 External USB Sound Adapter, Plug and Play. Upgrade to 24-Bit 96Khz Playback.

\$30 CAD

System Main Box: Computer Case With Motherboard: Contains All Main Connections



Lenovo ThinkCentre M720e: With Many Upgraded Components, Including RAM, SSD, Audio, Video, Connectivity, Wireless, and Heatsink

\$220 CAD

System Expansion Adapter/Dongle Upgrades



USB 2.0 4-Port Hub (For Data Not Charging)

\$15 CAD



USB 3.0 4-Port Hub (For Data Not Charging)

\$20 CAD

Video Display (Monitor)



Samsung T35F 1080p 75Hz Refresh Rate
HDMI and VGA Inputs, Eye-Saver Mode and FreeSync

\$170 CAD

Interface Components



HP 150 Wired Mouse and Keyboard Black -USB-A,
Full-Size, 12 Enhanced F-Keys, 3 LEDs for Cap Lock,
Num Lock, Scroll Lock, USB 3 Button Wired Mouse

\$35 CAD

Itemized Cost of This Lenovo ThinkCentre M720e Upgraded Workstation Computer

HARDWARE

System Main Box, Lenovo ThinkCentre	\$230
Gigastone 32 G DDR4 RAM (2x 16 G).....	\$80
SAPLOS GT 730 (nVidia) 4GB Graphics Card.....	\$120
TimeTec 1T PCIe Gen 4 SSD: For Boot/Startup Drive.....	\$100
TimeTec 1 T SATA SSD @ 6 Gbits: For Archiving.....	\$80
TimeTec 512 G 2.5" SSD @ 6 Gbits: For Documents.....	\$50
SABRENT M.2 SATA SSD to SATA 2.5 Enclosure.....	\$20
SABRENT Dual 2.5" HDD SSD to 3.5" mounting Frame.....	\$20
GLOTREND M.2 Heatsink for 2280 M.2 SSD.....	\$20
Samsung T35F 1080p 75Hz Refresh Rate HDMI Monitor.....	\$170
HP 150 Wired Mouse and Keyboard Black.....	\$35
USB 2.0 4-Port Hub (For Data Not Charging).....	\$15
USB 3.0 4-Port Hub (For Data Not Charging).....	\$20
Creative Labs Sound Blaster Play! 3 External USB Sound Adapter.....	\$35
UGREEN Bluetooth 6.0 Adapter for PC, USB Bluetooth Dongle Receiver.....	\$20
TP-Link AX1800 Nano USB WiFi 6 Adapter.....	\$30

SOFTWARE

Microsoft Windows 10 Professional.....	\$ Included
Ubuntu Linux 24.04LTS (an option).....	\$ Included
Microsoft Office 2021 Professional Plus.....	\$150 – 33% = \$100
Webroot Anti-Virus.....	\$ Included

Total Parts (Hardware & Software) \$ 1,095

Total Services @ 10% \$ 110

Net Total \$ 1,205

The Very Detailed Specifications of This Lenovo ThinkCentre M720e

ThinkCentre M720e SFF Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron®, Intel Pentium®, or 8th / 9th Gen Intel Core™ i3 / i5 / i7 / i9 Processor						Manageability	None
	Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics	Security chip	Discrete TPM 2.0, TCG Certified
	Celeron G4900	2 / 2	3.1G	2 MB	DDR4-2400	UHD 610	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
	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 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 G5420	2 / 4	3.8G	4 MB	DDR4-2400	UHD 610		
	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 i5-8400	6 / 6	2.8G / 4.0G	9 MB	DDR4-2666	UHD 630	Keyboard Mouse	Some: Lenovo Calliope Keyboard (USB connector), black Some: Lenovo Traditional Keyboard (USB connector), black Some: Lenovo Calliope Mouse (USB connector), black Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
	Core i5-8500	6 / 6	3.0G / 4.1G	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	Mechanical	● SFF (7.4L), black color, metal case ● (WxDxH) 3.9" X 11.9" X 10.8"; 100mm X 303.5mm X 274.8mm ● Approx. 9.37 lb (4.25 kg), weight may vary by configuration Bay 1: Slim ODD bay Bay 2: 3.5" disk bay, supports 2.5" HDD (2.5 to 3.5 bracket comes with 2.5" 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 slot: 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.) 14.48 lb (6.57 kg)
Memory	32GB max, UDIMM, DDR4-2666*, two 288-pin DIMM sockets, non-ECC, dual-channel capable * Memory may be underclocked to DDR4-2400 for the lower memory controller in processor						Power supply	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
Storage	Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 5400 rpm or 7200 rpm Some: M.2 Solid State Drive (SSD) / PCIe NVMe, PCIe 3.0 x2 or PCIe 3.0 x4 Some: Intel Optane™ Memory, M.2 2280, PCIe NVMe, PCIe 3.0 x 2						Preload	Preloaded operating system Some: Windows® 10 Pro 64-bit Some: Windows 10 Home 64-bit Some: Linux Ubuntu
Optane memory	Some: DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm) Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)						Environment	ENERGY STAR® 7, EPEAT™ Silver rating (North America), ErP Lot 3, RoHS-compliant, WEEE
Optical	Two onboard SATA 6.0Gb/s connectors Optional 7-in-1 media reader						Accessories	For compatible accessories, please go to http://www.lenovoquickpick.com
Onboard SATA								
Media reader								
Graphics	Intel HD Graphics 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: 4096x2304 (DP) @60Hz; 2048x1536 (VGA) @50Hz Some: AMD Radeon™ 520, DirectX 12, 2GB GDDR5, PCIe 3.0 x8 adapter, one VGA, one HDMI, 30 watts (Max); Max resolution: 3840x2160 (HDMI) @ 30Hz; 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 B365 Chipset							
Front ports* (Std.)	Two USB 3.1 Gen1, microphone (3.5mm), one headphone / microphone combo jack (3.5mm)							
Front ports* (Opt.)	None							
Rear ports* (Std.)	Two USB 3.1 Gen1, two USB 2.0, serial (9-pin), ethernet (RJ-45), one VGA, one DisplayPort, Line-out jack (3.5mm)							
Rear ports* (Opt.)	optional two USB 2.0, optional 2nd serial (9-pin), optional parallel (25-pin), optional external USB to PS/2 ports cable (for PS/2 keyboard / mouse); additional video ports or RJ-45 on optional graphics / ethernet card on some models * Depending on many factors, actual data transfer speed may be lower than theoretical speed							
Audio support	High Definition (HD) Audio, Realtek ALC623 / internal speaker (2 watt)							
WLAN ¹³	None							
Bluetooth™	None							
Ethernet	Gigabit ethernet, Realtek RTL8111HN, Wake on LAN®							
Ethernet (Opt.)	Some: Bitland BN8E88*, gigabit ethernet, PCIe x1							
Modem	None							

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

Lenovo, September 2019