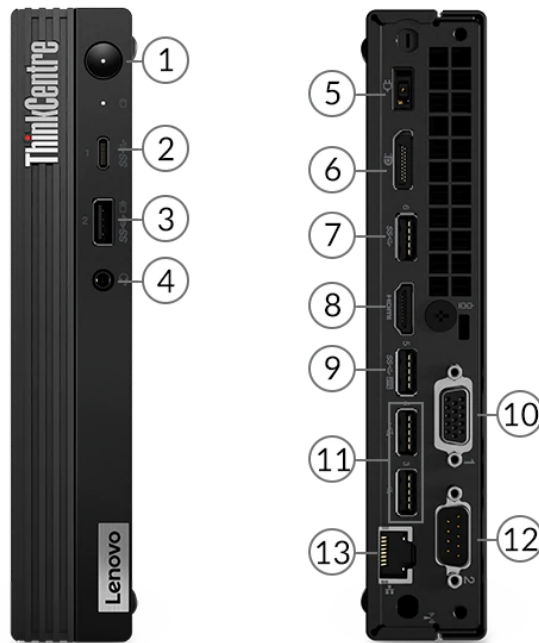


**OVERVIEW**



1. Power button	8. HDMI
2. USB-C 3.2 Gen 1	9. USB 3.2 Gen 1
3. USB 3.2 Gen 2	10. Optional port 1 (VGA is shown)
4. Headphone / microphone combo jack (3.5mm)	11. 2x USB 2.0
5. Power connector	12. Optional port 2 (serial is shown)
6. DisplayPort	13. Ethernet (RJ-45)
7. USB 3.2 Gen 1	

## PERFORMANCE

### Processor

#### Processor Family

AMD Ryzen™ 3 / 5 / 7, or Ryzen 3 / 5 / 7 PRO series processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
AMD Athlon™ Silver 3050GE	2	4	3.4GHz	3.4GHz	1MB L2 / 4MB L3	DDR4-2666	AMD Radeon™ Graphics
AMD Athlon Silver PRO 3125GE	2	4	3.4GHz	3.4GHz	1MB L2 / 4MB L3	DDR4-Up to 2667	Radeon Graphics
AMD Athlon Gold PRO 3150GE	4	4	3.3GHz	3.8GHz	2MB L2 / 4MB L3	DDR4-Up to 2933	Radeon Graphics
AMD Ryzen 3 3200GE	4	4	3.3GHz	3.8GHz	2MB L2 / 4MB L3	DDR4-2933	AMD Radeon Vega 8 Graphics
AMD Ryzen 3 4300GE	4	8	3.5GHz	4.0GHz	2MB L2 / 4MB L3	DDR4-3200	AMD Radeon Graphics
AMD Ryzen 3 PRO 4350GE	4	8	3.5GHz	4.0GHz	2MB L2 / 4MB L3	DDR4-3200	AMD Radeon Graphics
AMD Ryzen 5 4600GE	6	12	3.3GHz	4.2GHz	3MB L2 / 8MB L3	DDR4-3200	AMD Radeon Graphics
AMD Ryzen 5 PRO 4650GE	6	12	3.3GHz	4.2GHz	3MB L2 / 8MB L3	DDR4-3200	AMD Radeon Graphics
AMD Ryzen 7 4700GE	8	16	3.1GHz	4.3GHz	4MB L2 / 8MB L3	DDR4-3200	AMD Radeon Graphics
AMD Ryzen 7 PRO 4750GE	8	16	3.1GHz	4.3GHz	4MB L2 / 8MB L3	DDR4-3200	AMD Radeon Graphics

### Operating System

#### Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 IoT Enterprise
- No operating system

### Graphics

#### Graphics<sup>[1]</sup>

Graphics	Type	Memory	Connector	Max Resolution	Key Features
AMD Radeon Graphics	Integrated	Shared	-	-	DirectX® 12
AMD Radeon Vega 8 Graphics	Integrated	Shared	-	-	DirectX 12

#### Notes:

1. Integrated graphics information and onboard video ports information are not applicable for all models without integrated graphics (for the details, please refer to processor section)

### Monitor Support

#### Monitor Support

Supports up to 3 independent displays via onboard ports (DisplayPort™ + HDMI® + 2x optional ports [VGA / 2nd DP / 2nd HDMI / USB-C / 2x DP])

### Chipset

#### Chipset

AMD PRO 500 chipset

## Memory

### Memory Type

DDR4-3200

### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

### Max Memory<sup>[1]</sup>

Up to 64GB

#### Notes:

1. The max memory is based on the test results with current Lenovo® memory offerings. The system may support more memory as the technology develops.

## Storage

### Storage Support

Up to 2 drives, 1x 2.5" HDD + 1x M.2 PCIe NVMe SSD

- 2.5" HDD up to 1TB
- M.2 SSD up to 1TB

### Storage Type

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	7.2K	-
2.5" SATA HDD	SATA 6Gb/s	5.4K	-
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x2	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	Opal

## Removable Storage

### Optical

- DVD-ROM, slim (9.0mm), via USB external ODD box
- DVD burner (DVD±RW), slim (9.0mm), via USB external ODD box
- None

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC222 codec

### Speakers

Single speaker, 1.5W x1

## Power Supply

### Power Supply

Power	Type	Efficiency	Key Features
65W	Adapter	89%	Autosensing
90W	Adapter	89%	Autosensing

## DESIGN

## Input Device

### Keyboard

- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard, black
- Lenovo Traditional Keyboard (USB connector), black

### Mouse

- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Lenovo Calliope Mouse (USB connector), black

- Lenovo Fingerprint Mouse (USB connector), black

## Mechanical

### Form Factor

Tiny (1L)

### Dimensions (WxDxH)

179 x 183 x 34.5 / 37 mm with rubber feet (7.05 x 7.2 x 1.36 / 1.5 inches with rubber feet)

### Weight

1.25 kg (2.76 lbs)

### Case Color

Black

### Bays

1x 2.5" disk bay

### Expansion Slots

- One M.2 slot (for SSD)
- One M.2 slot (for WLAN)

### EOU

(Optional) Toolless chassis open (Toolless Chassis Screw required) and toolless M.2 SSD, HDD, memory assembly / removal

### Stand

- Vertical stand
- No stand

### Mounting

- VESA mount bracket kit, supports VESA 75mm and 100mm
- Not configured

## CONNECTIVITY

### Network

#### Onboard Ethernet

Gigabit Ethernet, Realtek RTL8111FP, 1x RJ45, supports Wake-on-LAN

#### WLAN + Bluetooth™

- Intel® Wi-Fi 6 AX200, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9260, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- No WLAN and Bluetooth

### Ports<sup>[1]</sup>

#### Front Ports

- 1x USB 3.2 Gen 2 (Always On and fast charge)
- 1x USB-C 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)

#### Rear Ports<sup>[2]</sup>

- 2x USB 2.0
- 2x USB 3.2 Gen 1
- 1x Ethernet (RJ-45)
- 1x HDMI
- 1x DisplayPort

#### Optional Rear Ports

- 2x DisplayPort (occupies Port 1 and 2)
- Optional Port 1 (VGA / 2nd DisplayPort / 2nd HDMI / serial / USB-C 3.2 Gen 1 with DisplayPort function, select one)
- Optional Port 2 (serial)
- Quad USB 3.2 Gen 1 ports (share one USB 3.2 Gen 1 bandwidth, occupy optional port 1 and 2)
- 2x USB 3.2 Gen 1 (occupies Port 1 and 2)

## Notes:

1. The transfer speed of following ports will vary and, depending on many factors, such as the processing speed of the host device, file attributes and other factors related to system configuration and your operating environment, will be slower than theoretical speed.
  - USB 2.0: 480 Mbit/s;
  - USB 3.2 Gen 1 (SuperSpeed USB 5Gbps, formerly USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;
  - USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formerly USB 3.1 Gen 2): 10 Gbit/s;
  - USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
  - Thunderbolt™ 3: 40 Gbit/s;
  - FireWire 400: 400 Mbit/s;
  - FireWire 800: 800 Mbit/s
2. For video ports on discrete graphics, please see graphics section

## Monitor Cable

### Monitor Cable

- DP to VGA dongle
- HDMI to VGA Dongle
- No monitor cable

## SECURITY & PRIVACY

### Security

#### Security Chip

Discrete TPM 2.0, TCG certified

#### Physical Locks

Kensington® Security Slot

#### Chassis Intrusion Switch

Chassis intrusion switch

#### BIOS Security

- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

## MANAGEABILITY

### System Management

#### System Management

DASH

## SERVICE

### Warranty

#### Base Warranty

- 1-year limited onsite service
- 3-year limited onsite service
- No base warranty

## CERTIFICATIONS

### Green Certifications

#### Green Certifications

- EPEAT™ Gold (on some models)
- EPEAT Silver (On some models)
- ENERGY STAR® 8.0
- ErP Lot 3

- TCO
- TUV low noise / ultra low noise verified (on some models)
- RoHS compliant

## Other Certifications

### Mil-Spec Test

- MIL-STD-810H military test passed
- MIL-STD-810H military test passed (Drop Shock test, Dust, Vibration, High Temperature, Low Temperature, Altitude, Thermal Shock, Humidity, Solar Radiation, Fungus)



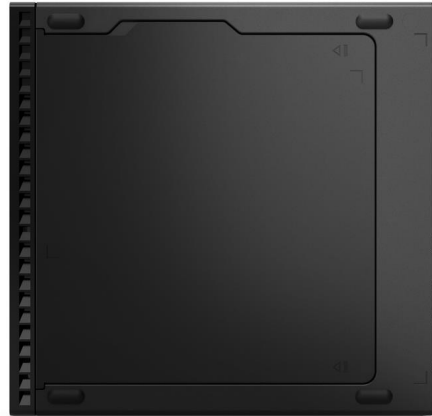
AMD



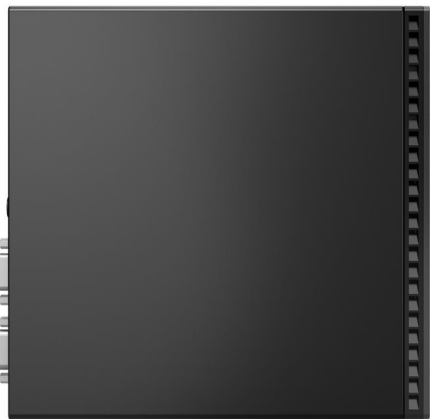
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