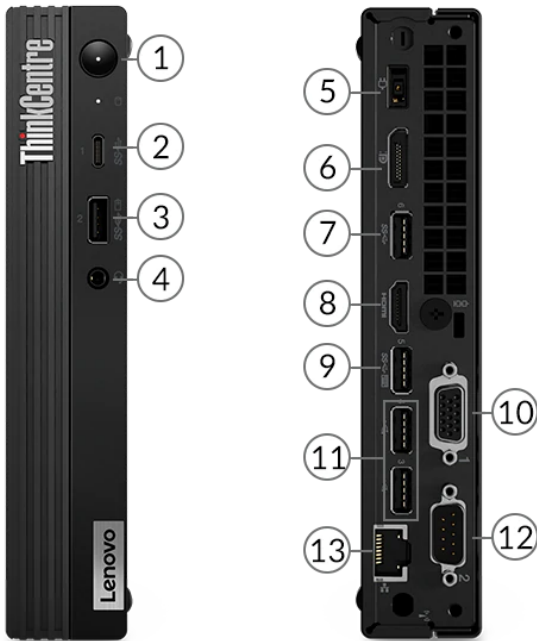


OVERVIEW



| | |
|--|---------------------------------------|
| 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 Athlon™ or AMD Ryzen™ 3 / 5 / 7 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 | DDR4-2666 | AMD Radeon Graphics |
| AMD Athlon Gold PRO 3150GE | 4 | 4 | 3.3GHz | 3.8GHz | 2MB L2 / 4MB L3 | DDR4-2933 | AMD 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 5300GE | 4 | 8 | 3.6GHz | 4.2GHz | 2MB L2 / 8MB 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 3 PRO 5350GE | 4 | 8 | 3.6GHz | 4.2GHz | 2MB L2 / 8MB 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 5600GE | 6 | 12 | 3.4GHz | 4.4GHz | 3MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon Graphics |
| AMD Ryzen 5 PRO 3350GE | 4 | 8 | 3.3GHz | 3.9GHz | 2MB L2 / 4MB L3 | DDR4-2933 | AMD Radeon Vega 11 Graphics |
| AMD Ryzen 5 PRO 4650GE | 6 | 12 | 3.3GHz | 4.2GHz | 3MB L2 / 8MB L3 | DDR4-3200 | AMD Radeon Graphics |
| AMD Ryzen 5 PRO 5650GE | 6 | 12 | 3.4GHz | 4.4GHz | 3MB L2 / 16MB 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 5700GE | 8 | 16 | 3.2GHz | 4.6GHz | 4MB L2 / 16MB 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 |
| AMD Ryzen 7 PRO 5750GE | 8 | 16 | 3.2GHz | 4.6GHz | 4MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon Graphics |

Operating System

Operating System**[1]

- Windows® 11 Pro
- Windows 11 Home
- Windows 11 Home Single Language
- Windows 11 DG Windows 10 Pro 64
- Windows 10 Pro 64
- Windows 10 Home 64
- Windows 10 Home 64 Single Language
- Windows 10 IoT Enterprise
- IGEL Linux

- Ubuntu Linux
- No operating system

Notes:

1. Some features may not be supported on the system with Linux preload, including but not limited to Intel® RST RAID, Human Presence Detection, etc.

Graphics

Graphics**[1]

| Graphics | Type | Memory | Connector | Max Resolution | Key Features |
|-----------------------------|------------|--------|--|---|--------------|
| AMD Radeon Graphics | Integrated | Shared | 1x HDMI®, 1x DisplayPort™, 1x optional port (VGA / 2nd DP / USB-C® / 2nd HDMI / dual DP) | 3840x2160@30Hz or 2560x1440@60Hz(HDMI), 1920x1200@60Hz(VGA), 3840x2160(DP)@60Hz | DirectX® 12 |
| AMD Radeon Vega 8 Graphics | Integrated | Shared | 1x HDMI, 1x DisplayPort, 1x optional port (VGA / 2nd DP / USB-C / 2nd HDMI / dual DP) | 3840x2160@30Hz or 2560x1440@60Hz(HDMI), 1920x1200@60Hz(VGA), 3840x2160(DP)@60Hz | DirectX 12 |
| AMD Radeon Vega 11 Graphics | Integrated | Shared | 1x HDMI, 1x DisplayPort, 1x optional port (VGA / 2nd DP / USB-C / 2nd HDMI / dual DP) | 3840x2160@30Hz or 2560x1440@60Hz(HDMI), 1920x1200@60Hz(VGA), 3840x2160(DP)@60Hz | DirectX 12 |

Notes:

1. The information of integrated graphics are not applicable for the 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) and optional ports (VGA / 2nd DP / 2nd HDMI / USB-C / 2x DP)

Chipset

Chipset

AMD PRO 500 chipset

Memory

Max Memory[1]

Up to 64GB DDR4-3200

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type[2]

DDR4-3200

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.

2. Installed memory is actually 3200MHz, but may run at 2666MHz, 2933MHz or 3200MHz depending on the memory support capability of processor

Storage

Storage Support[1]

Up to two drives, 1x 2.5" HDD + 1x M.2 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 | 5.4K | - |
| 2.5" SATA HDD | SATA 6Gb/s | 7.2K | - |
| M.2 2242 SSD | PCIe® NVMe®, PCIe 3.0 x2 | - | - |
| M.2 2280 SSD | PCIe NVMe, PCIe 3.0 x4 | - | Opal |

Notes:

1. The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

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
 - No keyboard

- Mouse**
- Lenovo Calliope Mouse (USB connector), black
 - Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
 - Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black
 - No mouse

Mechanical

Form Factor

Tiny (1L)

Dimensions (WxDxH)^[1]

| Models | Dimensions |
|-----------|---|
| Tiny only | 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) |

- Packaging Dimensions (WxDxH)
- Tiny only: 141 x 268 x 490 mm (5.55 x 10.55 x 19.29 inches)
 - With VESA mount & ODD box: 166 x 268 x 490 mm (6.54x 10.55 x 19.29 inches)

Weight^[2]

| Models | Weight |
|--------|--------|
|--------|--------|

| | |
|-----------|--------------------|
| Tiny only | 1.25 kg (2.76 lbs) |
|-----------|--------------------|

Packaging Weight

- With VESA mount & ODD box: 3.575 kg (7.88 lbs)
- Tiny only: 2.848 kg (6.28 lbs)

Case Color

Black

Bays

1x 2.5" disk bay

Expansion Slots

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

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 mount 75mm and 100mm
- None

Notes:

1. The system dimensions may vary depending on configurations.
2. The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

CONNECTIVITY

Network

Onboard Ethernet

- Gigabit Ethernet, Realtek RTL8111HN, 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Realtek RTL8111FP, 1x RJ-45, supports DASH and Wake-on-LAN

WLAN + Bluetooth[®]^[1]**

- Intel Wi-Fi[®] 6 AX200, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wireless-AC 9260, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Realtek RTL8822BE, 802.11ac Dual Band 1x1 Wi-Fi + Bluetooth 4.2, M.2 card
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Realtek Wi-Fi 6 RTL8852AE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- No WLAN and Bluetooth

Notes:

1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

Ports^[1]

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^[2]

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

Optional Rear Ports^{*}**

- Optional port 1 (one of VGA / 2nd DisplayPort / 2nd HDMI / serial / USB-C 3.2 Gen 1 with DisplayPort function)
- 2x USB 3.2 Gen 1 (occupies port 1 and 2)

- 4x USB 3.2 Gen 1 (share one USB 3.2 Gen 1 bandwidth, occupy port 1 and 2)
- 2x DisplayPort (occupies port 1 and 2)
- Optional port 2 (serial)
- 1x parallel

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™ 3/4: 40 Gbit/s
2. For video ports on discrete graphics, please see graphics section

Monitor Cable

Monitor Cable***

- VGA Cable Tiny
- HDMI to HDMI cable (1.5m)
- HDMI to VGA dongle
- DP to VGA dongle
- DP to VGA cable (1.5M)
- DP to dual DP dongle
- DP to DVI-D dongle
- DP to HDMI 1.4 dongle
- No monitor cable

SECURITY & PRIVACY

Security

Security Chip

Discrete TPM 2.0, TCG certified

Physical Locks

Kensington® Security Slot™, 3 x 7 mm

Chassis Intrusion Switch

Chassis intrusion switch

BIOS Security

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

MANAGEABILITY

System Management

System Management

- DASH 1.2
- Non-DASH

SERVICE

Warranty^[1]

Base Warranty**

- 1-year courier or carry-in service
- 1-year limited onsite service
- 3-year limited onsite service
- No base warranty

Notes:

1. The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://pcsupport.lenovo.com/warranty>.

ENVIRONMENTAL

Operating Environment

Temperature

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage: -40°C (-40°F) to 60°C (140°F)

Humidity

- Operating: 20% to 80%
- Storage: 10% to 90%

Altitude

- Operating: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications^[1]

Green Certifications

- (Optional) EPEAT™ Gold
- ENERGY STAR® 8.0
- ErP Lot 3
- TCO Certified
- RoHS compliant

Notes:

1. The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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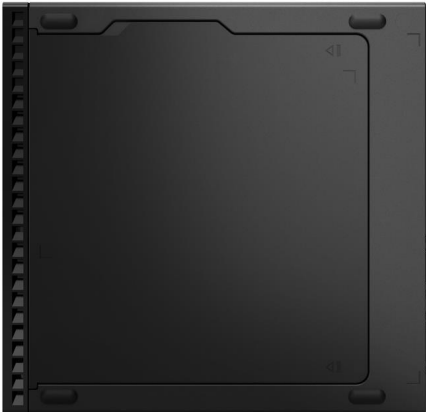
AMD



AMD



AMD



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