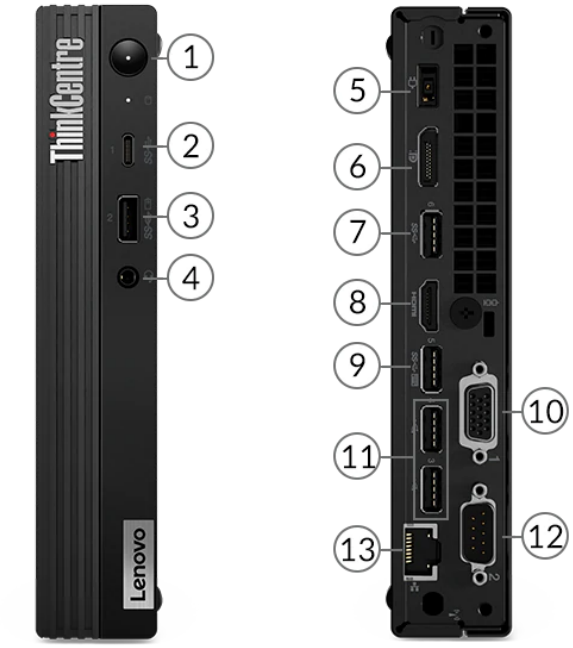
## OVERVIEW




| | |
|---|---|
| 1. Power button | 8. HDMI 1.4b |
| 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 1.4 | 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 Gold PRO 3150GE | 4 | 4 | 3.3GHz | 3.8GHz | 2MB L2 / 4MB L3 | DDR4-2933 | AMD Radeon™ 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 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**[**]

- IGEL Linux[1]
- Ubuntu Linux
- Windows® 10 Home 64
- Windows 10 Home 64 Single Language
- Windows 10 IoT Enterprise
- Windows 10 Pro 64
- Windows 11 DG Windows 10 Pro 64
- Windows 11 Home
- Windows 11 Home Single Language

- Windows 11 Pro
- No operating system

Notes:

[1] The pre-installed IGEL OS version is 11.08.240
The device is preload with a free evaluation license. The evaluation license will be valid for a period of 90 days.

## Graphics

**Graphics**[**][1]

| Graphics | Type | Memory | Connector | Max Resolution | Key Features |
|---|---|---|---|---|---|
| AMD Radeon Graphics | Integrated | Shared | 1x HDMI®, 1x DisplayPort™ 1.4, 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 1.4, 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 1.4, 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 with processor which has no integrated graphics inside (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.
[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 |
| M.2 2280 SSD | PCIe NVMe, PCIe 4.0 x4 | - | Opal 2.0 |

Notes:

[1] The max capacity of each disk type is based on the test results with current Lenovo storage offerings.

## 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 (EOL on Jan, 2023)
- 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)[2]**

- Tiny only: 490 x 250 x 130 mm (19.29 x 9.84 x 5.12 inches)
- Tiny & ODD: 490 x 268 x 166 mm (19.29 x 10.55 x 6.54 inches)

**Weight[3]**

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

**Packaging Weight**[4]

- Tiny only: Around 3.2 kg (7.05 lbs)
- Tiny & ODD: Around 3.9 kg (8.6 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 mount 75mm and 100mm
- None

---

Notes:

[1] The system dimensions may vary depending on configurations.
[2] The new packages take effect from September 2023. The old packages are:
Tiny only: 500 x 150 x 280 mm (19.69 x 5.91 x 11.02 inches)
Tiny & ODD: 500 x 175 x 280 mm (19.69 x 6.89 x 11.02 inches)
[3] 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.
[4] The new packages take effect from September 2023. The old package are:
Tiny only: 2.85 kg (6.28 lbs)
Tiny & ODD: 3.58 kg (7.89 lbs)

# CONNECTIVITY

## Network

**Onboard Ethernet**

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

**WLAN + Bluetooth®****

- 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
- Intel® Wireless-AC 9260, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wi-Fi 6 AX200, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, 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

## Ports[1]

**Front Ports**

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

**Rear Ports**[2]

- 2x USB 2.0
- 2x USB 3.2 Gen 1

- 1x HDMI 1.4b
- 1x DisplayPort 1.4
- 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)
- Optional port 2 (serial)
- 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)
- 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;
USB4® 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;
USB4 40Gbps (USB 40Gbps): 40 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 dongle
- No monitor cable

# SECURITY & PRIVACY

## Security

**Security Chip**

Discrete TPM 2.0, TCG certified, FIPS 140-2 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) ENERGY STAR® 8.0
- (Optional) EPEAT™ Gold Registered[2]
- (Optional) EPEAT Silver Registered[3]
- ErP Lot 3
- RoHS compliant
- TCO Certified 9.0

Notes:

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

[2], [3] EPEAT is registered where applicable, please see https://www.epeat.net for registration status by country.

## 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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