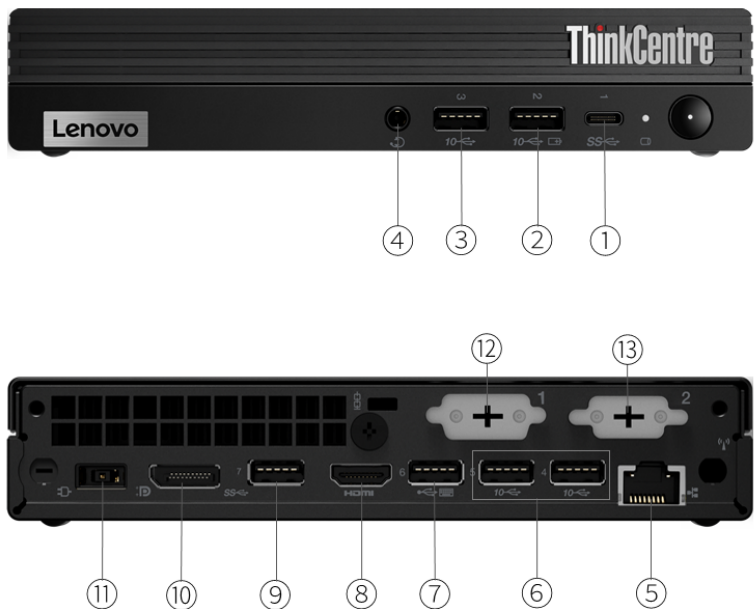


OVERVIEW



| | |
|--|------------------------|
| 1. USB-C 3.2 Gen 1 | 8. HDMI 2.1 TMDs |
| 2. USB 3.2 Gen 2 (Always On and fast charge) | 9. USB 3.2 Gen 1 |
| 3. USB 3.2 Gen 2 | 10. DisplayPort 1.4 |
| 4. Headphone / microphone combo jack (3.5mm) | 11. Power connector |
| 5. Ethernet (RJ-45) | 12. Punch out port 1 * |
| 6. 2x USB 3.2 Gen 2 | 13. Punch out port 2 * |
| 7. 1x USB 2.0 (with smart power-on feature) | |

Notes:

- Ports with * are only available on selected models

PERFORMANCE

Processor

Processor Family

Intel® Celeron®, Intel Pentium®, or 12th Generation Intel Core™ i3 / i5 / i7 / i9 Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|---------------------|--------------------------|---------|-------------------------------|-------------------------------|-------|----------------|------------------------|
| Celeron G6900T | 2 | 2 | 2.8GHz | - | 4MB | DDR4-3200 | Intel UHD Graphics 710 |
| Pentium Gold G7400T | 2 | 4 | 3.1GHz | - | 6MB | DDR4-3200 | Intel UHD Graphics 710 |
| Core i3-12100T | 4 (4 P-core + 0 E-core) | 8 | P-core 2.2GHz | P-core 4.1GHz | 12MB | DDR4-3200 | Intel UHD Graphics 730 |
| Core i3-12300T | 4 (4 P-core + 0 E-core) | 8 | P-core 2.3GHz | P-core 4.2GHz | 12MB | DDR4-3200 | Intel UHD Graphics 730 |
| Core i5-12400T | 6 (6 P-core + 0 E-core) | 12 | P-core 1.8GHz | P-core 4.2GHz | 18MB | DDR4-3200 | Intel UHD Graphics 730 |
| Core i5-12500T | 6 (6 P-core + 0 E-core) | 12 | P-core 2.0GHz | P-core 4.4GHz | 18MB | DDR4-3200 | Intel UHD Graphics 770 |
| Core i5-12600T | 6 (6 P-core + 0 E-core) | 12 | P-core 2.1GHz | P-core 4.6GHz | 18MB | DDR4-3200 | Intel UHD Graphics 770 |
| Core i7-12700T | 12 (8 P-core + 4 E-core) | 20 | P-core 1.4GHz / E-core 1.0GHz | P-core 4.6GHz / E-core 3.4GHz | 25MB | DDR4-3200 | Intel UHD Graphics 770 |
| Core i9-12900T | 16 (8 P-core + 8 E-core) | 24 | P-core 1.4GHz / E-core 1.0GHz | P-core 4.8GHz / E-core 3.6GHz | 30MB | DDR4-3200 | Intel UHD Graphics 770 |

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 IoT Enterprise LTSC 2021
- Ubuntu Linux
- No operating system

Notes:

- 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 |
|------------------------|------------|--------|--|---|--------------|
| Intel UHD graphics 710 | Integrated | Shared | 1x HDMI® 2.1 TMDS, 1x DP 1.4, 2x punch out ports([2x HDMI/VGA/DP] or [USB-C® with DP function, HDMI/VGA/DP]) | 4096x2160@60Hz(HDMI), 1920x1200@60Hz(VGA), 4096x2160@60Hz(DP), 4096x2160@60Hz(USB-C with DP function) | DirectX® 12 |
| Intel UHD graphics 730 | Integrated | Shared | 1x HDMI 2.1 TMDS, 1x DP 1.4, 2x punch out ports([2x HDMI/VGA/DP] or [USB-C with DP function, HDMI/VGA/DP]) | 4096x2304@60Hz(HDMI), 1920x1200@60Hz(VGA), 4096x2304@60Hz(DP), 4096x2304@60Hz(USB-C with DP function) | DirectX 12 |

| | | | | | |
|------------------------|------------|--------|--|---|------------|
| Intel UHD graphics 770 | Integrated | Shared | 1x HDMI 2.1 TMDS, 1x DP 1.4, 2x punch out ports([2x HDMI/VGA/DP] or [USB-C with DP function, HDMI/VGA/DP]) | 4096x2304@60Hz(HDMI), 1920x1200@60Hz(VGA), 4096x2304@60Hz(DP), 4096x2304@60Hz(USB-C with DP function) | 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 4 independent displays via (onboard DP, onboard HDMI, punch out port 1 [VGA / HDMI / DP / USB-C], and punch out port 2 [VGA / HDMI / DP])

Chipset

Chipset

Intel Q670 chipset

Memory

Max Memory^[1]

Up to 64GB DDR4-3200

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type

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.

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 2TB

Storage Type^{***}

| Disk Type | Interface | RPM | Security |
|---------------|--------------------------|------|----------|
| 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 4.0 x4 | - | - |
| M.2 2280 SSD | PCIe NVMe, PCIe 4.0 x4 | - | Opal 2.0 |

RAID

No support

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

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC256VB codec

Speakers**

- Single speaker, 2W x1
- Premium single speaker, 2W x1

Power Supply

Power Supply**^[1]

| Power | Type | Efficiency | Key Features |
|-----------------|---------|------------|--------------|
| 65W | Adapter | 89% | Autosensing |
| 90W | Adapter | 89% | Autosensing |
| 135W | Adapter | 89% | Autosensing |
| No power supply | - | - | - |

Notes:

1. The optional 90w adapter may increase performance scores when 12500T/12400T CPUs are installed.

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), black
- No mouse

Mechanical

Form Factor

Tiny (1L)

Dimensions (WxDxH)^[1]

| Models | Dimensions |
|------------|---|
| Tiny only | 179 x 182.9 x 36.5 mm with rubber feet (7.05 x 7.2 x 1.44 inches with rubber feet) |
| Tiny & ODD | 204.2 x 186.6 x 64 mm with rubber feet (8.04 x 7.35 x 2.52 inches with rubber feet) |

Packaging Dimensions (WxDxH)**

- Tiny only : 490 x 268 x 141 mm (19.29 x 10.55 x 5.55 inches)
- Tiny & ODD : 490 x 268 x 166 mm (19.29 x 10.55 x 6.54 inches)

Weight^[2]

| Models | Weight |
|---------------------------|---------------------------|
| Tiny only | Around 1.25 kg (2.76 lbs) |
| With VESA mount & ODD box | Around 1.74 kg (3.84 lbs) |

Packaging Weight**

- Tiny only: 2.85 kg (6.28 lbs)
- Tiny & ODD: 3.58 kg (7.89 lbs)

Case Color

Raven black

Bays

1x 2.5" disk bay

Expansion Slots

Two M.2 slots (one for WLAN, one 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

IO Box

No IO box

Mounting

- VESA mount bracket kit, supports VESA mount 75mm and 100mm
- None

Others

- (Optional) Dust filter
- (Optional) Power adapter cage
- Supports Smart Power On

Notes:

1. The system dimensions 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, Intel Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN

Optional Ethernet^[1]

- No optional Ethernet
- 2.5 Gigabit Ethernet, Realtek RTL8125BGS, 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth[®]*[2]

- Intel Wi-Fi[®] 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Realtek Wi-Fi 6 RTL8852BE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- No WLAN and Bluetooth

Notes:

1. Optional Ethernet card occupied puch out port 2
2. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation

Ports^[1]

Front Ports

- 1x USB 3.2 Gen 2
- 1x USB 3.2 Gen 2 (Always On and 5V@2.1A charging)
- 1x USB-C 3.2 Gen 1 (support data transfer and 5V@0.9A charging)
- 1x headphone / microphone combo jack (3.5mm)

Optional Front Ports

None

Rear Ports^[2]

- 1x HDMI 2.1 TMDS

- 1x DisplayPort™ 1.4
- 1x USB 2.0
- 1x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x Ethernet (RJ-45)

Optional Rear Ports^[3]**

- Punch out port 1 (one of VGA / DisplayPort / HDMI / serial / USB-C 2.0 with DisplayPort function)
- Punch out port 2 (one of VGA / DisplayPort / HDMI / serial / RJ-45)

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
3. USB-C 3.2 Gen 1 only available for models with 135W adapter

Monitor Cable**Monitor Cable*****

- HDMI to HDMI cable (1.5m)
- HDMI to VGA dongle
- DP to VGA dongle
- 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

Physical Locks

Kensington® Security Slot™, 3 x 7 mm

Chassis Intrusion Switch

Chassis intrusion switch

Fingerprint Reader

- Touch style fingerprint reader on mouse
- No fingerprint reader

BIOS Security

- Administrator password
- Power-on password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Certificate based BIOS management
- Cover presence switch
- Self-healing BIOS
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- Individual USB port disablement

MANAGEABILITY**System Management****System Management**^[1]**

- Intel vPro® Enterprise
- Intel vPro Essentials
- Non-vPro

Notes:

1. Intel vPro offers a superset of DASH's defined capabilities.

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

Green Certifications

- (Optional) EPEAT™ Gold
- ENERGY STAR® 8.0
- ErP Lot 3 and Lot 7
- TCO Certified 9.0
- RoHS compliant

Other Certifications

Other Certifications

- (Optional) TÜV Rheinland® Low Noise
- (Optional) TÜV Rheinland Ultra Low Noise

Mil-Spec Test

MIL-STD-810H military test passed (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

- 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.

models.

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