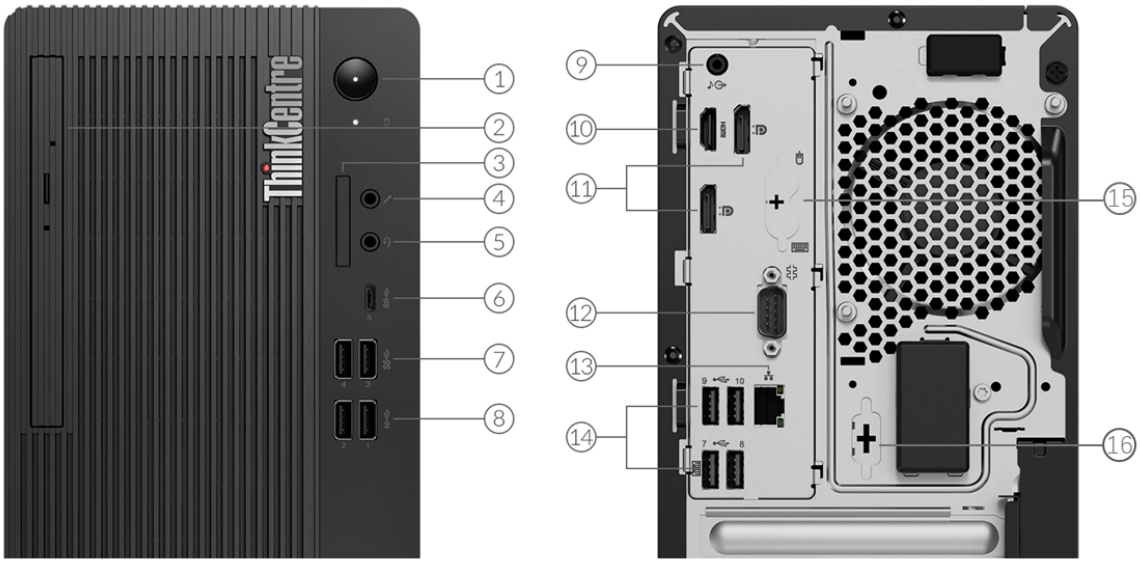
# OVERVIEW




| | |
|---|---|
| 1. Power button | 9. Line-out (3.5mm) |
| 2. Optical drive * | 10. HDMI |
| 3. Card reader * | 11. 2x DisplayPort |
| 4. Microphone (3.5mm) | 12. Serial |
| 5. Headphone / microphone combo jack (3.5mm) | 13. Ethernet (RJ-45) |
| 6. USB-C 3.2 Gen 1 | 14. 4x USB 2.0 |
| 7. 2x USB 3.2 Gen 1 | 15. 2x PS/2 ports (keyboard / mouse) * |
| 8. 2x USB 3.2 Gen 2 | 16. Serial * |

Notes:

- Ports with * are only available on selected models
- More ports are available through the optional expansion cards (not shown on the sample product above)

# PERFORMANCE

## Processor

**Processor Family**

Intel® Celeron®, Intel Pentium®, or 10th Generation Intel Core™ i3 / i5 / i7 / i9 Processor

**Processor****

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|---|---|---|---|---|---|---|---|
| Celeron G5900 | 2 | 2 | 3.4GHz | - | 2MB | DDR4-2666 | Intel UHD Graphics 610 |
| Celeron G5905 | 2 | 2 | 3.5GHz | - | 4MB | DDR4-2666 | Intel UHD Graphics 610 |
| Celeron G5920 | 2 | 2 | 3.5GHz | - | 2MB | DDR4-2666 | Intel UHD Graphics 610 |
| Celeron G5925 | 2 | 2 | 3.6GHz | - | 4MB | DDR4-2666 | Intel UHD Graphics 610 |
| Pentium Gold G6400 | 2 | 4 | 4.0GHz | - | 4MB | DDR4-2666 | Intel UHD Graphics 610 |
| Pentium Gold G6500 | 2 | 4 | 4.1GHz | - | 4MB | DDR4-2666 | Intel UHD Graphics 630 |
| Pentium Gold G6600 | 2 | 4 | 4.2GHz | - | 4MB | DDR4-2666 | Intel UHD Graphics 630 |
| Core i3-10100 | 4 | 8 | 3.6GHz | 4.3GHz | 6MB | DDR4-2666 | Intel UHD Graphics 630 |
| Core i3-10300 | 4 | 8 | 3.7GHz | 4.4GHz | 8MB | DDR4-2666 | Intel UHD Graphics 630 |
| Core i3-10320 | 4 | 8 | 3.8GHz | 4.6GHz | 8MB | DDR4-2666 | Intel UHD Graphics 630 |
| Core i5-10400 | 6 | 12 | 2.9GHz | 4.3GHz | 12MB | DDR4-2666 | Intel UHD Graphics 630 |
| Core i5-10400F | 6 | 12 | 2.9GHz | 4.3GHz | 12MB | DDR4-2666 | - |
| Core i5-10500 | 6 | 12 | 3.1GHz | 4.5GHz | 12MB | DDR4-2666 | Intel UHD Graphics 630 |
| Core i5-10600 | 6 | 12 | 3.3GHz | 4.8GHz | 12MB | DDR4-2666 | Intel UHD Graphics 630 |
| Core i7-10700 | 8 | 16 | 2.9GHz | 4.8GHz | 16MB | DDR4-2933 | Intel UHD Graphics 630 |
| Core i7-10700F | 8 | 16 | 2.9GHz | 4.8GHz | 16MB | DDR4-2933 | - |
| Core i9-10900 | 10 | 20 | 2.8GHz | 5.2GHz | 20MB | DDR4-2933 | Intel UHD Graphics 630 |
| Core i9-10900F | 10 | 20 | 2.8GHz | 5.2GHz | 20MB | DDR4-2933 | - |

## Operating System

**Operating System****

- Windows® 11 Pro 64
- Windows 11 Home 64
- Windows 11 DG Windows 10 Pro 64
- Windows 10 Pro 64
- Windows 10 Home 64
- Windows 10 IoT Enterprise
- Ubuntu Linux
- No operating system

## Graphics

**Graphics**[1]

| Graphics | Type | Memory | Connector | Max Resolution | Key Features |
|---|---|---|---|---|---|
| Intel UHD graphics 610 | Integrated | Shared | 1x HDMI®, 2x DP | 1920x1080@60Hz(HDMI), 4096x2304@60Hz(DP) | DirectX® 12 |
| Intel UHD graphics 630 | Integrated | Shared | 1x HDMI, 2x DP | 1920x1080@60Hz(HDMI), 4096x2304@60Hz(DP) | DirectX 12 |
| AMD Radeon™ 520 | Discrete | 2GB GDDR5 | 2x DP 1.2 | 4096x2160@60Hz(DP) | DirectX 12 |
| AMD Radeon RX 550X | Discrete | 4GB GDDR5 | 1x HDMI 2.0, 1x VGA, 1x DP 1.4 | 4096x2160@60Hz(HDMI), 2048x1536@85Hz(VGA), 3840x2160@60Hz(DP) | DirectX 12 |

| | | | | | |
|---|---|---|---|---|---|
| NVIDIA® GeForce® GT 730 | Discrete | 2GB GDDR5 | 1x VGA, 1x HDMI 1.4 | 2048x1536@75Hz(VGA), 3840x2160@30Hz(HDMI) | 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**[1]

Supports up to 3 independent displays via onboard ports (HDMI and 2x DisplayPort™), more displays support via discrete graphics

Notes:

1. Onboard video ports are only available for the models with integrated graphics

## Chipset

**Chipset**

Intel H470 chipset

## Memory

**Max Memory**[1]

Up to 128GB DDR4-2933

**Memory Slots**

Four DDR4 DIMM slots, dual-channel capable

**Memory Type****

- DDR4-2666
- DDR4-2933

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 three drives, 1x 2.5"/3.5" HDD + 1x 2.5" HDD + 1x M.2 SSD
• 2.5" HDD up to 1TB each
• 3.5" HDD up to 2TB
• M.2 SSD up to 2TB
• Optional Intel Optane™ Memory, M.2

**Storage Type*****

| Disk Type | Interface | RPM | Security |
|---|---|---|---|
| 2.5" SATA HDD | SATA 6Gb/s | 7.2K | - |
| 3.5" 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 |
| Intel Optane Memory M10 | PCIe NVMe, PCIe 3.0 x2 | - | - |

**RAID**

No support

## Removable Storage

**Optical****

- DVD-ROM, SATA 1.5Gb/s, slim (9.0mm)
- DVD burner (DVD±RW), SATA 1.5Gb/s, slim (9.0mm)
- None

**Card Reader**

- 3-in-1 card reader (SD, SDHC, SDXC)
- No card reader

## Multi-Media

**Audio Chip**

High Definition (HD) Audio, Realtek® ALC623-CG codec

**Speakers**

Single speaker, 2W x1

## Power Supply

**Power Supply****

| Power | Type | Efficiency | Key Features |
|---|---|---|---|
| 180W | Fixed | 85% | - |
| 260W | Fixed | 85% | 100-240V, 50-60Hz |
| 310W | Fixed | 92% | 100-240V, 50-60Hz |
| 380W | Fixed | 92% | - |

# DESIGN

## Input Device

**Keyboard****

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

Tower (13.6L)

**Dimensions (WxDxH)**

145 x 296 x 346 mm (5.7 x 11.7 x 13.6 inches)

**Packaging Dimensions (WxDxH)**

245 x 395 x 530 mm (9.65 x 15.55 x 20.87 inches)

**Weight**

4.8 kg (10.6 lbs)

**Packaging Weight**

All models: 8.3 kg (18.29 lbs)

**Case Color**

Black

**Bays**

- 1x 2.5" disk bay (optional, or bay comes with disk)
- 1x 3.5" disk bay
- 1x slim ODD bay

**Expansion Slots**

- One PCIe 3.0 x1, full-height (length < 215mm)
- One PCIe 3.0 x16, full-height (length < 215mm)

- Two M.2 slots (one for WLAN, one for SSD)

**Others**

- (Optional) Dust filter
- Supports Smart Power On

# CONNECTIVITY

## Network

**Onboard Ethernet**

Gigabit Ethernet, Intel Ethernet Connection I219-V, 1x RJ-45, supports Wake-on-LAN

**Optional Ethernet**[**]

- Gigabit Ethernet, Bitland BN8E88, 1x RJ-45, PCIe x1
- Gigabit Ethernet, Intel Ethernet Server Adapter I350-T4, 4x RJ-45, PCIe x4
- No optional Ethernet

**WLAN + Bluetooth®**[**]

- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9462, 802.11ac Dual Band 1x1 Wi-Fi + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

## Ports[1]

**Front Ports**

- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x USB-C 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

**Optional Front Ports**

- 1x card reader
- None

**Rear Ports**[2]

- 4x USB 2.0
- 1x HDMI
- 2x DisplayPort
- 1x serial (9-pin)
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

**Optional Rear Ports**[***]

- 2x USB 3.2 Gen 1 (via 2-port USB expansion card, PCIe x1)
- 2x USB-C 3.2 Gen 2 (via 2-port USB-C expansion card, PCIe x4)
- 1x serial
- 4x serial (via 4-port serial expansion card, PCIe x1)
- 1x parallel
- 2x PS/2

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

# SECURITY & PRIVACY

## Security

**Security Chip**

Discrete TPM 2.0, TCG certified

**Physical Locks**

- (Optional) E-lock
- (Optional) Smart Cable Clip
- Kensington® Security Slot
- Padlock Loop

**Chassis Intrusion Switch**

- Chassis intrusion switch
- No 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
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- Individual USB port disablement

# MANAGEABILITY

## System Management

**System Management**

Non-vPro

# SERVICE

## Warranty

**Base Warranty**[**][1]

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

Notes:

1. More information 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**

- EPEAT™ Gold
- EPEAT Silver
- ENERGY STAR® 8.0 (only available for MT 11D9/11DA)
- ErP Lot 3
- TCO Certified 8.0
- RoHS compliant

## Other Certifications

**Other Certifications**

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

- 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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