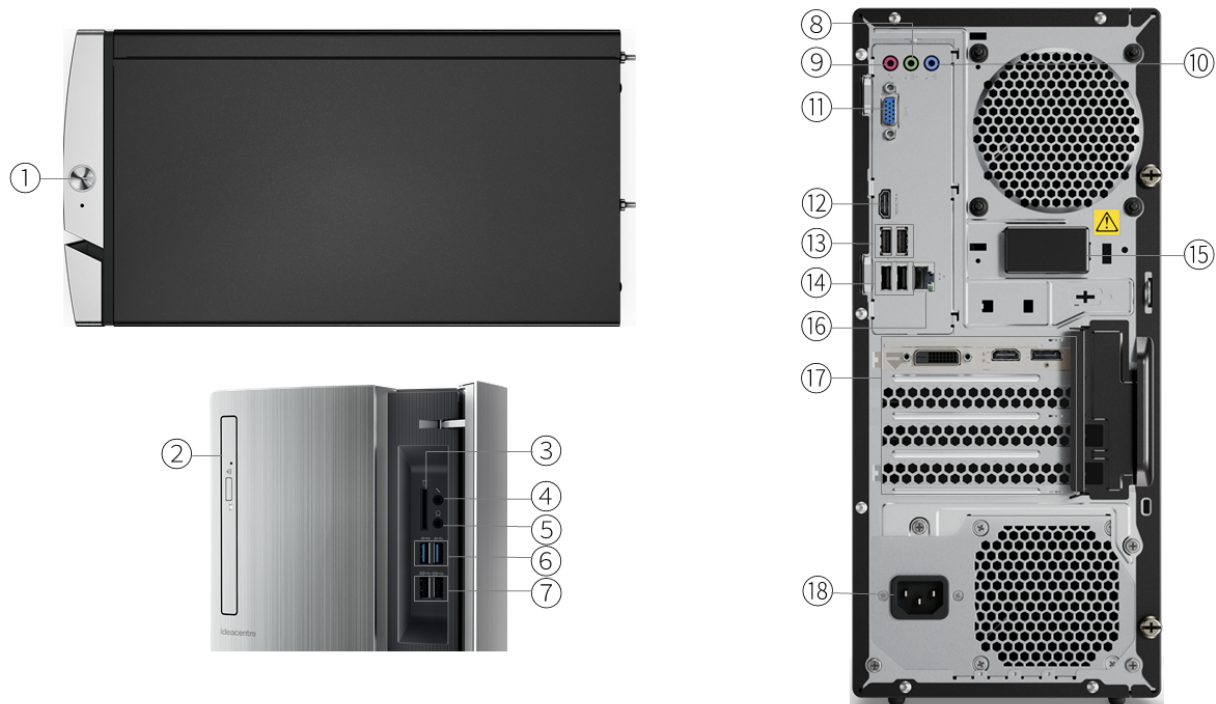


OVERVIEW



| | |
|-----------------------|---------------------------------------|
| 1. Power button | 10. Line-out (3.5mm) |
| 2. Optical drive * | 11. VGA |
| 3. Card reader * | 12. HDMI 1.4 |
| 4. Microphone (3.5mm) | 13. 2x USB 3.1 Gen 1 |
| 5. Headphone (3.5mm) | 14. 2x USB 2.0 |
| 6. 2x USB 3.1 Gen 2 | 15. Wi-Fi antenna * |
| 7. 2x USB 3.1 Gen 1 | 16. Optional ports on expansion cards |
| 8. Line-in (3.5mm) | 17. Ethernet (RJ-45) |
| 9. Microphone (3.5mm) | 18. Power connector |

- 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

AMD Ryzen™ 3 / 5 / 7 Processor

Processor

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|-------------------|-------|---------|----------------|---------------|------------------|----------------|--------------------------------|
| AMD Ryzen 3 2200G | 4 | 4 | 3.5GHz | 3.7GHz | 2MB L2 / 4MB L3 | DDR4-2993 | AMD Radeon™ Vega 8 Graphics |
| AMD Ryzen 5 2400G | 4 | 8 | 3.6GHz | 3.9GHz | 2MB L2 / 4MB L3 | DDR4-2933 | AMD Radeon RX Vega 11 Graphics |
| AMD Ryzen 5 2600 | 6 | 12 | 3.4GHz | 3.9GHz | 3MB L2 / 16MB L3 | DDR4-2933 | - |
| AMD Ryzen 7 2700 | 8 | 16 | 3.2GHz | 4.1GHz | 4MB L2 / 16MB L3 | DDR4-2933 | - |

Operating System

Operating System

- Windows® 10 Home 64
- FreeDOS
- No operating system

Graphics

Graphics^[1]

| Graphics | Type | Memory | Connector | Max Resolution | Key Features |
|------------------------------|------------|-----------|--------------------------------|---|----------------------|
| AMD Radeon Vega 8 Graphics | Integrated | Shared | 1X HDMI® 1.4, 1x VGA | - | DirectX® 12 |
| AMD Radeon Vega 11 Graphics | Integrated | Shared | 1x HDMI 1.4, 1x VGA | - | DirectX 12 |
| AMD Radeon RX 550 | Discrete | 2GB GDDR5 | 1x HDMI 2.0, 1x DP 1.4, 1x DVI | - | DirectX 12 |
| AMD Radeon RX 550 | Discrete | 4GB GDDR5 | 1x HDMI 2.0, 1x DP 1.4, 1x DVI | - | DirectX 12 |
| AMD Radeon RX 550X | Discrete | 4GB GDDR5 | 1x HDMI 2.0, 1x VGA, 1x DP 1.4 | 4096x2160@60Hz(HDMI), 2048x1536@60Hz(VGA), 5120x2880@60Hz(DP) | DirectX 12 |
| AMD Radeon RX 570 | Discrete | 4GB GDDR5 | 1x HDMI 2.0, 3x DP 1.4 | - | VR ready, DirectX 12 |
| NVIDIA® GeForce® GTX 1050 Ti | Discrete | 4GB GDDR5 | 1x HDMI, 1x DP, 1x DVI | 4096x2160@60Hz(HDMI), 7680x4320@60Hz(DP), 2560x1600@60Hz(DVI) | 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 2 independent displays via onboard ports (VGA and HDMI), more displays support via discrete graphics

Chipset

Chipset

AMD B450 chipset

Memory

Max Memory^[1]

Up to 32GB DDR4-2666

Memory Slots

Two DDR4 UDIMM slots, dual-channel capable

Memory Type

DDR4-2666

Memory Protection

Non-ECC

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 3.5" HDD + 1x M.2 SSD

- 3.5" HDD up to 2TB
- M.2 SSD up to 512GB

Storage Type

| Disk Type | Interface | RPM | Security |
|---------------|-------------|------|----------|
| 3.5" SATA HDD | SATA 6Gb/s | 7.2K | - |
| M.2 2242 SSD | PCIe® NVMe® | - | - |
| M.2 2280 SSD | PCIe NVMe | - | - |

RAID

No support

Removable Storage

Optical

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

Card Reader

- 7-in-1 card reader (SD, SDHC, SDXC, MMC, MS, MS-Pro, MMC plus)
- No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC662 codec

Speakers

No speakers

Microphone

No microphone

Camera

No camera

Power Supply

Power Supply

| Power | Type | Efficiency | Key Features |
|-------|-------|------------|--------------|
| 180W | Fixed | - | 100V - 240V |
| 250W | Fixed | - | 100V - 240V |
| 400W | Fixed | - | 100V - 240V |

DESIGN

Input Device

Keyboard

- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Keyboard (USB connector), silver
- No keyboard

Mouse

- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Mouse (USB connector), silver
- No mouse

Mechanical

Buttons

- Power button
- Optical drive eject button (ODD models only)

Form Factor

Tower (18L)

Dimensions (WxDxH)

| Models | Dimensions |
|------------|--|
| All models | 165 x 324 x 376 mm (6.5 x 12.76 x 14.8 inches) |

Weight

| Models | Weight |
|------------|------------------|
| All models | 8 kg (17.64 lbs) |

Case Color

Black

Bays

- 1x 3.5" disk bay
- 1x slim ODD bay
- 1x 5.25" ODD / optional front access HDD

Expansion Slots

- One PCIe 3.0 x1, full height, full length
- One PCIe 3.0 x16, full height, full length
- Two M.2 slots (one for WLAN, one for SSD)

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, 1x RJ45

WLAN + Bluetooth®

- 802.11ac 1x1 Wi-Fi® + Bluetooth 4.0, M.2 card
- No WLAN and Bluetooth

Ports^[1]

Front Ports

- 2x USB 3.1 Gen 1
- 2x USB 3.1 Gen 2
- 1x headphone (3.5mm)
- 1x microphone (3.5mm)

Optional Front Ports

1x card reader

Rear Ports^[2]

- 2x USB 2.0
- 2x USB 3.1 Gen 1
- 1x VGA
- 1x HDMI 1.4
- 1x Ethernet (RJ-45)
- 1x line-in (3.5mm)
- 1x line-out (3.5mm)
- 1x microphone (3.5mm)
- 1x power connector

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

SECURITY & PRIVACY

Security

Physical Locks

Kensington® Security Slot

BIOS Security

- Administrator password
- Power-on password
- Hard disk password

SERVICE

Warranty

Base Warranty

- 3-month mail-in service
- 1-year depot or mail-in service
- 2-year depot service

ENVIRONMENTAL

Operating Environment

Temperature

- Operating: 5°C (41°F) to 35°C (95°F)
- Storage: -20°C (-4°F) to 60°C (140°F)

Humidity

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

Altitude

- Operating: -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: -15.2 m (-50 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications

Green Certifications

- ErP Lot 3
- RoHS compliant

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