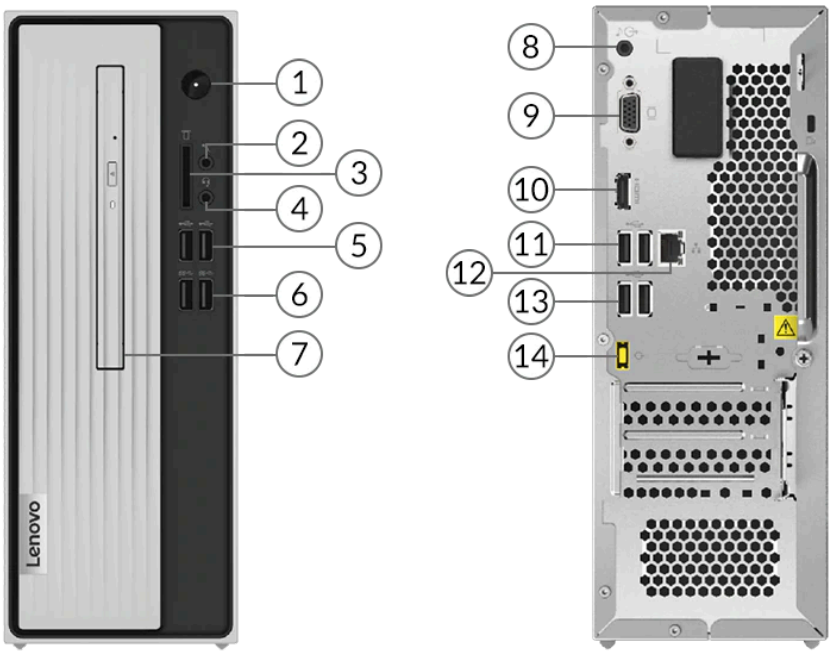
## OVERVIEW




| | |
|---|---|
| 1. Power button | 8. Line-out (3.5mm) |
| 2. Microphone (3.5mm) | 9. VGA |
| 3. Card reader | 10. HDMI 1.4 |
| 4. Headphone / microphone combo jack (3.5mm) | 11. 2x USB 2.0 |
| 5. 2x USB 2.0 | 12. Ethernet (RJ-45) |
| 6. 2x USB 3.2 Gen 1 | 13. 2x USB 2.0 |
| 7. Optical drive * | 14. Power connector |

Notes:

- Ports with * are only available on selected models

# PERFORMANCE

## Processor

**Processor Family**

AMD Athlon™ or AMD Ryzen™ 3 / 5 Processor

**Processor****

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|---|---|---|---|---|---|---|---|
| AMD 3020e | 2 | 2 | 1.2GHz | 2.6GHz | 1MB L2 / 4MB L3 | DDR4-2400 | AMD Radeon™ Graphics |
| AMD Athlon Silver 3050U | 2 | 2 | 2.3GHz | 3.2GHz | 1MB L2 / 4MB L3 | DDR4-2400 | AMD Radeon Graphics |
| AMD Athlon Gold 3150U | 2 | 4 | 2.4GHz | 3.3GHz | 1MB L2 / 4MB L3 | DDR4-2400 | AMD Radeon Graphics |
| AMD Ryzen 3 3250U | 2 | 4 | 2.6GHz | 3.5GHz | 1MB L2 / 4MB L3 | DDR4-2400 | AMD Radeon Graphics |
| AMD Ryzen 5 3500U | 4 | 8 | 2.1GHz | 3.7GHz | 2MB L2 / 4MB L3 | DDR4-2400 | AMD Radeon Vega 8 Graphics |

## Operating System

**Operating System****

- Windows® 11 Home 64
- Windows 11 Home in S mode
- Windows 10 Home 64
- Windows 10 Home in S mode
- FreeDOS

## Graphics

**Graphics****[1]

| Graphics | Type | Memory | Connector | Max Resolution | Key Features |
|---|---|---|---|---|---|
| AMD Radeon Graphics | Integrated | Shared | 1x HDMI® 1.4, 1x VGA | 3840x2160@30Hz(HDMI), 1920x1080@60Hz(VGA) | DirectX® 12 |
| AMD Radeon Vega 8 Graphics | Integrated | Shared | 1X HDMI 1.4, 1x VGA | 4096x2160@24Hz(HDMI), 3840x2160@60Hz(VGA) | 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)

## Chipset

**Chipset**

AMD SoC (System on Chip) platform

## Memory

**Max Memory**[1]

Up to 16GB DDR4-2400

**Memory Slots**

Two DDR4 SO-DIMM slots, dual-channel capable

**Memory Type****[2]

- DDR4-2400
- 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.
2. Installed memory is actually 2400MHz or 2666MHz, but run at 2400MHz depending on the memory support capability of processor

## Storage

**Storage Support**

Up to two 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® ALC222-CG codec

## Power Supply

**Power Supply**

| Power | Type | Efficiency | Key Features |
|---|---|---|---|
| 90W | Adapter | 88% | 100V - 240V |

# DESIGN

## Input Device

**Keyboard**

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

**Mouse**

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

## Mechanical

**Form Factor**

SFF (7.4L)

**Dimensions (WxDxH)**

| Models | Dimensions |
|---|---|
| All models | 100 x 290 x 270 mm (3.94 x 11.42 x 10.63 inches) |

**Weight**

| Models | Weight |
|---|---|
| All models | 3.55 kg (7.83 lbs) |

**Case Color**

Mineral grey

**Bays**

- 1x 3.5" disk bay
- 1x slim ODD bay

**Expansion Slots**

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

# CONNECTIVITY

## Network

**Onboard Ethernet**

Gigabit Ethernet, 1x RJ-45

**WLAN + Bluetooth®**

- 802.11ac 2x2 Wi-Fi® + Bluetooth 5.0, M.2 card
- No WLAN and Bluetooth

## Ports[1]

**Front Ports**

- 2x USB 2.0
- 2x USB 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

**Optional Front Ports**

1x card reader

**Rear Ports**[2]

- 4x USB 2.0
- 1x VGA
- 1x HDMI 1.4
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

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

**Security Chip**

Firmware TPM 2.0 integrated in chipset

**BIOS Security**

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

# SERVICE

## Warranty

**Base Warranty****[1]

- 1-year mail-in service
- 1-year depot service
- 1-year limited onsite service
- 2-year depot service

Notes:

1. More information of warranty policy, please access https://pcsupport.lenovo.com/warranty

# ENVIRONMENTAL

## Operating Environment

**Temperature**

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) ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

- 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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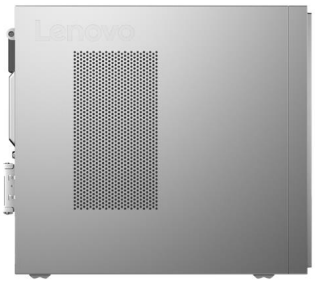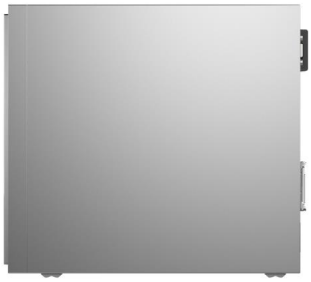
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