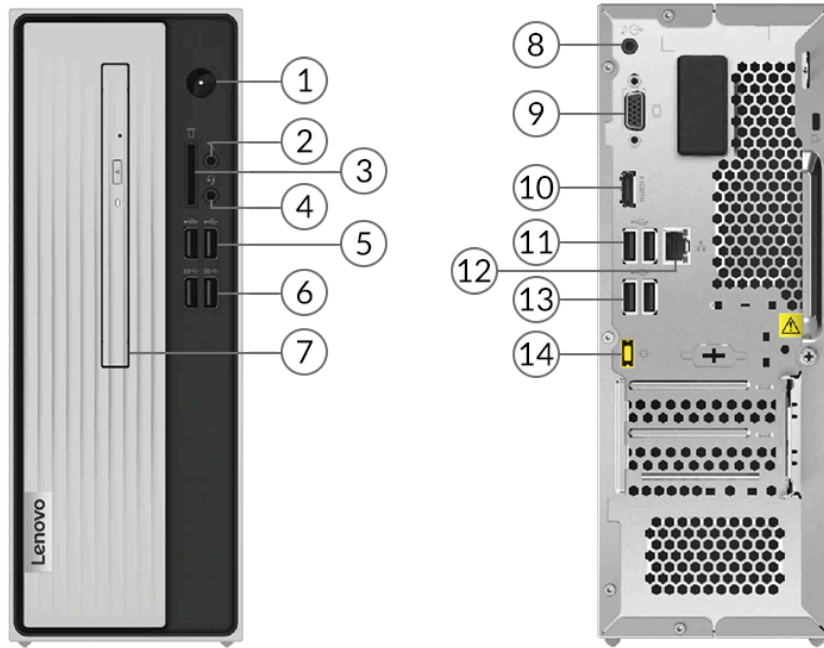


## OVERVIEW



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

### Speakers

No speakers

## 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 RJ45

### WLAN + Bluetooth®

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

## Ports<sup>[1]</sup>

### 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<sup>[2]</sup>

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

## 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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