

## PERFORMANCE

### Processor

#### Processor Family

AMD Athlon™, AMD A6 / A8 / A10 / A12, or AMD Ryzen™ 3 / 5 Processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
AMD Athlon 200GE	2	4	3.2GHz	-	1MB L2 / 4MB L3	DDR4-2666	AMD Radeon™ Vega 3 Graphics
AMD Athlon 300GE	2	4	3.4GHz	-	1MB L2 / 4MB L3	DDR4-2666	AMD Radeon Vega 3 Graphics
AMD A6-9500	2	2	3.5GHz	3.8GHz	1MB L2	DDR4-2400	AMD Radeon R5 Graphics
AMD A8-9600	4	4	3.1GHz	3.4GHz	2MB L2	DDR4-2400	AMD Radeon R7 Graphics
AMD A10-9700	4	4	3.5GHz	3.8GHz	2MB L2	DDR4-2400	AMD Radeon R7 Graphics
AMD A12-9800	4	4	3.8GHz	4.2GHz	2MB L2	DDR4-2400	AMD Radeon R7 Graphics
AMD Ryzen 3 2200G	4	4	3.5GHz	3.7GHz	2MB L2 / 4MB L3	DDR4-2993	AMD Radeon Vega 8 Graphics
AMD Ryzen 3 3200G	4	4	3.6GHz	4.0GHz	2MB L2 / 4MB L3	DDR4-2933	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 3400G	4	8	3.7GHz	4.2GHz	2MB L2 / 4MB L3	DDR4-2933	AMD Radeon RX Vega 11 Graphics

### Operating System

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

### Graphics

Graphics	Type	Memory	Connector	Max Resolution	Key Features
AMD Radeon R5 Graphics	Integrated	Shared	1x HDMI® 1.4, 1x VGA	4096x2160@24Hz(HDMI), 1920x1080@60Hz(VGA)	DirectX® 12
AMD Radeon R7 Graphics	Integrated	Shared	1x HDMI 1.4, 1x VGA	4096x2160@24Hz(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
AMD Radeon Vega 11 Graphics	Integrated	Shared	1X HDMI 1.4, 1x VGA	4096x2160@24Hz(HDMI), 3840x2160@60Hz(VGA)	DirectX 12
AMD Radeon RX Vega 11 Graphics	Integrated	Shared	1X HDMI 1.4, 1x VGA	4096x2160@24Hz(HDMI), 3840x2160@60Hz(VGA)	DirectX 12
AMD Radeon Vega 3 Graphics	Integrated	Shared	1X HDMI 1.4, 1x VGA	4096x2160@24Hz(HDMI), 1920x1080@60Hz(VGA)	DirectX 12
AMD Radeon RX 550	Discrete	2GB GDDR5	1x HDMI 2.0, 1x DP 1.4, 1x DVI	4096x2160@60Hz(HDMI), 5120x2880@60Hz(DP), 2560x1600@60Hz(DVI)	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

AMD Radeon RX 560	Discrete	4GB GDDR5	1x HDMI 2.0, 1x DP 1.4, 1x DVI	4096x2160@60Hz(HDMI), 5120x2880@60Hz(DP), 2560x1600@60Hz(DVI)	DirectX 12
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**Notes:**

- Integrated graphics information and onboard video ports information are not applicable for all models without integrated graphics (for the details, please refer to processor section)

**Monitor Support**

Supports up to 2 independent displays via onboard ports (VGA and HDMI), more displays support via discrete graphics

**Chipset**

AMD B500 chipset

**Memory****Memory Type**

DDR4-2666

**Notes:**

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

**Memory Slots**

Two DDR4 UDIMM slots, dual-channel capable

**Memory Protection**

Non-ECC

**Max Memory**

Up to 32GB DDR4-2666

**Notes:**

- 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

**RAID**

Not support

**Storage Type**

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

**Removable Storage****Optical**

DVD burner (DVD±RW), SATA 1.5Gb/s, slim (9.0mm)

**Card Reader**

7-in-1 card reader (SD, SDHC, SDXC, MMC, MS, MS-Pro, MMC plus)

**Multi-Media****Audio Chip**

High Definition (HD) Audio, Realtek® ALC662 codec

**Speakers**

Not Support

**Microphone**

Not Support

**Camera**

Not Support

**Power Supply**

Power	Type	Efficiency	Key Features
180W	Fixed	85%	100V - 240V
210W	Fixed	85%	100V - 240V

**DESIGN****Input Device****Keyboard**

- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Keyboard (USB connector), silver
- Lenovo Calliope Wireless Keyboard, black
- Not configured

**Mouse**

- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Mouse (USB connector), silver
- Not configured

**Mechanical****Buttons**

- Power button
- Optical drive eject button(for the models with ODD)

**Form Factor**

Tower (15L)

**Dimensions (WxDxH)**

145 x 285.2 x 366.03 mm (5.71 x 11.22 x 14.41 inches)

**Weight**

6.85 kg (15.1 lbs)

**Case Color**

Black

**Bays**

- 1x slim ODD bay
- 1x 3.5" disk bay
- 1x 3.5" or 2.5" disk bay, HDD / SSD

**Expansion Slots**

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

**Cooling System (Fan&Cooler)**

(Optional) Front and rear system fan

**CONNECTIVITY****Network****Onboard Ethernet**

Gigabit Ethernet, 1x RJ45

**WLAN + Bluetooth™**

- 802.11ac 1x1 Wi-Fi + Bluetooth 4.0, M.2 card
- Not configured

## Ports

**Front Ports**

- 2x USB 2.0
- 2x USB 3.1 Gen 1
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

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**Notes:**

- 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;

**Optional Front Ports**

1x card reader

**Rear Ports**

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

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**Notes:**

- For video ports on discrete graphics, please see graphics section

## SECURITY & PRIVACY

### Security

**BIOS Security**

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

## SERVICE

### Warranty

**Base Warranty**

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

## CERTIFICATIONS

### Green Certifications

- ErP Lot 3
- RoHS

