

## PERFORMANCE

### Processor

#### Processor Family

AMD E2 / A4 / A6 / A9 APU

#### Processor

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache  | Memory Support | Processor Graphics      |
|----------------|-------|---------|----------------|---------------|--------|----------------|-------------------------|
| AMD A4-9125    | 2     | 2       | 2.3GHz         | 2.6GHz        | 1MB L2 | DDR4-2133      | AMD Radeon™ R3 Graphics |
| AMD A6-9225    | 2     | 2       | 2.6GHz         | 3.1GHz        | 1MB L2 | DDR4-2133      | AMD Radeon R4 Graphics  |
| AMD A6-9230    | 2     | 2       | 2.6GHz         | 2.8GHz        | 1MB L2 | DDR4-2400      | AMD Radeon R4 Graphics  |
| AMD A9-9425    | 2     | 2       | 3.1GHz         | 3.7GHz        | 1MB L2 | DDR4-2133      | AMD Radeon R5 Graphics  |
| AMD A9-9430    | 2     | 2       | 3.2GHz         | 3.5GHz        | 1MB L2 | DDR4-2400      | AMD Radeon R5 Graphics  |

### Operating System

#### Operating System

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

### Graphics

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

| Graphics                | Type       | Memory    | Connector            | Max Resolution                            | Key Features |
|-------------------------|------------|-----------|----------------------|---|--------------|
| AMD Radeon R3 Graphics  | Integrated | Shared    | 1x HDMI® 1.4, 1x VGA | 4096x2160@24Hz(HDMI), 1920x1080@60Hz(VGA) | DirectX® 12  |
| AMD Radeon R4 Graphics  | Integrated | Shared    | 1x HDMI 1.4, 1x VGA  | 4096x2160@24Hz(HDMI), 1920x1080@60Hz(VGA) | DirectX 12   |
| AMD Radeon R5 Graphics  | Integrated | Shared    | 1x HDMI 1.4, 1x VGA  | 4096x2160@24Hz(HDMI), 1920x1080@60Hz(VGA) | DirectX 12   |
| NVIDIA® GeForce® GT 730 | Discrete   | 1GB GDDR5 | 1x HDMI 1.4, 1x VGA  | 4096x2160@30Hz(HDMI), 1920x1200@60Hz(VGA) | DirectX 12   |
| NVIDIA GeForce GT 730   | Discrete   | 2GB GDDR5 | 1x HDMI 1.4, 1x VGA  | 4096x2160@30Hz(HDMI), 1920x1200@60Hz(VGA) | DirectX 12   |

#### Notes:

1. 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

#### Monitor Support

Supports up to 2 independent displays via onboard ports (VGA + HDMI)

### Chipset

#### Chipset

AMD SoC (System on Chip) platform

### Memory

#### Memory Type

- DDR4-2400
- DDR4-2666

#### Memory Slots

Two DDR4 UDIMM slots, dual-channel capable

#### Memory Protection

Non-ECC

### Max Memory<sup>[1]</sup>

Up to 16GB DDR4-2666

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 2.5" SSD

? 3.5" HDD up to 2TB

? 2.5" SSD up to 256GB

### RAID

Not support

### Storage Type

| Disk Type     | Interface  | RPM  | Security |
|---------------|------------|------|----------|
| 3.5" SATA HDD | SATA 6Gb/s | 7.2K | -        |
| 2.5" SATA SSD | SATA 6Gb/s | -    | -        |

## 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

## Power Supply

### Power Supply

| Power | Type    | Efficiency | Key Features |
|-------|---------|------------|--------------|
| 65W   | Adapter | -          | 100V - 240V  |
| 90W   | Adapter | -          | 100V - 240V  |
| 120W  | Adapter | -          | 100V - 240V  |
| 150W  | Adapter | -          | 100V - 240V  |

## DESIGN

### Input Device

#### Keyboard

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

#### Mouse

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

## Mechanical

### Buttons

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

### Form Factor

SFF (8.4L)

### Dimensions (WxDxH)

90 x 297 x 344mm (3.54 x 11.69 x 13.54 inches)

### Weight

4.3 kg (9.5 lbs)

### Case Color

- Black
- Silver

### Bays

- 1x slim ODD bay
- 1x 2.5" disk bay
- 1x 3.5" disk bay

### Expansion Slots

- One PCIe 2.0 x16, low-profile
- One PCIe 2.0 x1, low-profile
- 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

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

- 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>

- 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)
- 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

#### BIOS Security

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

## SERVICE

### Warranty

#### Base Warranty

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

## CERTIFICATIONS

### Green Certifications

#### Green Certifications

- ErP Lot 3
- GREENGUARD®
- RoHS compliant

