

## OVERVIEW



1. HDMI-in / out switch	6. USB 3.1 Gen 2
2. HDMI-in	7. Power connector
3. Ethernet (RJ-45)	8. Card reader
4. HDMI 1.4 out	9. 2x USB 3.1 Gen 2
5. 2x USB 2.0	10. Headphone / microphone combo jack (3.5mm)

## PERFORMANCE

### Processor

#### Processor Family

Intel® Pentium® or 9th Generation Intel Core™ i3 / i5 / i7 Processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Pentium Gold G5420T	2	4	3.2GHz	-	4MB	DDR4-2400	Intel UHD Graphics 610
Core i3-9100T	4	4	3.1GHz	3.7GHz	6MB	DDR4-2400	Intel UHD Graphics 630
Core i5-9400T	6	6	1.8GHz	3.4GHz	9MB	DDR4-2666	Intel UHD Graphics 630
Core i7-9700T	8	8	2.0GHz	4.3GHz	12MB	DDR4-2666	Intel UHD Graphics 630

### Operating System

#### Operating System

- Windows® 10 Pro 64
- Windows 10 Home 64
- FreeDOS

### Graphics

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

Graphics	Type	Memory	Connector	Max Resolution	Key Features
Intel UHD Graphics 610	Integrated	Shared	1x HDMI® 1.4	1920x1080@60Hz(HDMI)	DirectX® 12
Intel UHD Graphics 630	Integrated	Shared	1x HDMI 1.4	1920x1080@60Hz(HDMI)	DirectX 12
AMD Radeon™ RX 540X	Discrete	2GB GDDR5	1x HDMI 1.4	1920x1080@60Hz(HDMI)	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 native display and 1 external monitor; supports external monitor via HDMI; work as standalone monitor via HDMI (HDMI in)

### Chipset

#### Chipset

Intel B360 chipset

### Memory

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

Up to 16GB DDR4-2666

#### Memory Slots

Two DDR4 SO-DIMM slots

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

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

## Storage

### Storage Support

Up to two drives, 1x 2.5" HDD + 1x M.2 SSD

- 2.5" HDD up to 2TB
- M.2 SSD up to 1TB
- Optional Intel Optane™ Memory, M.2

### Storage Type

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	5.4K	-
M.2 2242 SSD	PCIe® NVMe®	-	-
M.2 2280 SSD	PCIe NVMe	-	-
Intel Optane Memory	PCIe NVMe	-	-

## Removable Storage

### Optical

- USB external DVD burner (DVD±RW), slim (9.0mm)
- None

### Card Reader

3-in-1 card reader (SD, SDHC, SDXC)

## Multi-Media

### Audio Chip

High Definition (HD) Audio

### Speakers

Stereo speakers, 3W x2 + 5W

### Microphone

Dual array microphone

### Camera

- 720p, fixed focus
- IR & 1080p, fixed focus

## Power Supply

### Power Supply

Power	Type	Efficiency	Key Features
90W	Adapter	-	-
120W	Adapter	-	-
150W	Adapter	-	-

## DESIGN

## Display

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

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
23.8"	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9	1000:1	-	horizontal: +/- 89°, vertical: +/-	Borderless design, anti-

									89°	glare
23.8"	FHD (1920x1080)	Multi-touch	IPS	250 nits	Anti-glare	16:9	1000:1	-	horizontal: +/- 89°, vertical: +/- 89°	Borderless design, anti-glare

**Touchscreen**

- Advanced In-cell Touch (AIT), supports 10-point touch
- Non-touch

**Notes:**

## 1. California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to <https://www.calrecycle.ca.gov/Electronics/Consumer>

**Input Device****Keyboard**

- Lenovo Premium Wireless Keyboard, grey
- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard, black
- Lenovo Calliope Wireless Keyboard, grey

**Mouse**

- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- Lenovo Premium Wireless Mouse, grey

**Mechanical****Buttons**

- Power button
- HDMI in/out switcher

**Form Factor**

AIO (23.8 inches)

**Dimensions (WxDxH)**

Models	Dimensions
All models	450.9 x 185 x 435.19 mm (17.75 x 7.28 x 17.13 inches)

**Weight**

Models	Weight
All models	10.5 kg (23.14 lbs)

**Case Color**

Industry black

**Bays**

1x 2.5" disk bay

**Expansion Slots**

Two M.2 slots (one for WLAN, one for SSD)

**Stand**

Monitor stand, supports -5° to +25° tilt

**Others**

(Optional) Wireless charger

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

Gigabit Ethernet, 1x RJ45

**WLAN + Bluetooth®**

802.11ac 1x1 Wi-Fi® + Bluetooth 4.0, M.2 card

**Ports<sup>[1]</sup>****Rear Ports<sup>[2]</sup>**

- 2x USB 2.0
- 1x USB 3.1 Gen 2
- 1x HDMI-out 1.4
- 1x HDMI-in
- 1x Ethernet (RJ-45)

**Bottom Ports**

1x power connector

**Left Ports**

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

**Right Ports**

None

**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**

- Administrator password
- Power-on password

## SERVICE

### Warranty

**Base Warranty**

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

## 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, Lot 6 and Lot 7
- GREENGUARD®
- RoHS compliant

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