

## PERFORMANCE

### Processor

#### Processor Family

10th Generation Intel® Core™ i5 / i7 Processor

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i5-10400	6	12	2.9GHz	4.3GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i5-10400F	6	12	2.9GHz	4.3GHz	12MB	DDR4-2666	-
Core i7-10700	8	16	2.9GHz	4.8GHz	16MB	DDR4-2933	Intel UHD Graphics 630
Core i7-10700F	8	16	2.9GHz	4.8GHz	16MB	DDR4-2933	-

### Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64

### Graphics

Graphics	Type	Memory	Connector	Max Resolution	Key Features
Intel UHD graphics 630	Integrated	Shared	1x HDMI® 1.4b, 1x VGA	4096x2160@24Hz(HDMI), 2048x1536@50Hz(VGA)	DirectX® 12
AMD Radeon™ RX 5500	Discrete	4GB GDDR6	1x HDMI 2.0, 3x DP 1.4	4096x2160@60Hz(HDMI), 7680x4320@60Hz(DP)	DirectX 12
NVIDIA® GeForce® GTX 1650 SUPER	Discrete	4GB GDDR6	1x HDMI 2.0b, 2x DP 1.4	7680x4320 @60Hz(DP)	DirectX 12
NVIDIA GeForce GTX 1660 SUPER	Discrete	6GB GDDR6	1x DVI, 1x HDMI 2.0b, 1x DP 1.4	7680x4320@60Hz(DP)	DirectX 12
NVIDIA GeForce RTX™ 2060 CD	Discrete	6GB GDDR6	1x HDMI 2.0b, 3x DP 1.4	4096x2160@60Hz(HDMI), 7680x4320@60Hz with DSC(DP)	DirectX 12

#### 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

Intel B460 chipset

### Memory

#### Memory Type

- DDR4-2666
- DDR4-2933

#### Notes:

- Installed memory is actually 2666MHz or 2933MHz, but may run at 2666MHz or 2933MHz 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 DDR4-2933

#### 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 1TB
- 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

Not Support

### Card Reader

- 3-in-1 card reader (SD, SDHC, SDXC)
- Not configured

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC222-CG codec

### Speakers

Not Support

## Power Supply

Power	Type	Efficiency	Key Features
310W	Fixed	92%	100V - 240V
380W	Fixed	92%	100V - 240V

## DESIGN

## Input Device

### Keyboard

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

### Mouse

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

## Mechanical

### Form Factor

Tower (13.6L)

### Dimensions (WxDxH)

145 x 292.2 x 365 mm (5.71 x 11.5 x 14.37 inches)

**Weight**

5.8 kg (12.79 lbs)

**Case Color**

Raven black

**Bays**

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

**Expansion Slots**

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

**Cooling System (Fan&Cooler)**

(Optional) Front system fan, rear system fan

## CONNECTIVITY

### Network

**Onboard Ethernet**

Gigabit Ethernet, 1x RJ45

**WLAN + Bluetooth™**

- 802.11ac 2x2 Wi-Fi + Bluetooth 5.0, M.2 Card
- 802.11ax 2x2 Wi-Fi + Bluetooth 5.0, M.2 Card
- Not configured

### Ports

**Front Ports**

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

**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**

- 4x USB 2.0
- 1x Ethernet (RJ-45)
- 1x HDMI 1.4b
- 1x VGA
- 1x headphone / microphone combo jack (3.5mm)

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

## CERTIFICATIONS

### Green Certifications

- ENERGY STAR® 8.0 (On some models)
- ErP Lot 3
- RoHS

