

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 / 9 series Processor

Processor^[1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor 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 2600X	6	12	3.6GHz	4.2GHz	3MB L2 / 16MB L3	DDR4-2933	-
AMD Ryzen 5 3400G	4	8	3.7GHz	4.2GHz	2MB L2 / 4MB L3	DDR4-2933	AMD Radeon RX Vega 11 Graphics
AMD Ryzen 5 3600	6	12	3.6GHz	4.2GHz	3MB L2 / 32MB L3	DDR4-3200	-
AMD Ryzen 7 2700X	8	16	3.7GHz	4.3GHz	4MB L2 / 16MB L3	DDR4-2933	-
AMD Ryzen 7 3700X	8	16	3.6GHz	4.4GHz	4MB L2 / 32MB L3	DDR4-3200	-
AMD Ryzen 9 3900	12	24	3.1GHz	4.3GHz	6MB L2 / 64MB L3	DDR4-3200	-

Notes:

1. AMD Radeon RX Vega 11 Graphics in processor is disabled.

Operating System

Operating System

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

Graphics

Graphics^[1]

Graphics	Type	Memory	Connector	Max Resolution	Key Features
AMD Radeon RX 570	Discrete	4GB GDDR5	1x HDMI® 2.0, 3x DP 1.4	4096x2160@60Hz(HDMI), 5120x2880@60Hz(DP)	DirectX® 12 VR ready
AMD Radeon RX 5500	Discrete	4GB GDDR6	1x HDMI 2.0, 3x DP 1.4	4096x2160@60Hz(HDMI), 7680x4320@60Hz(DP)	DirectX 12
AMD Radeon RX 5700XT	Discrete	8GB GDDR6	1x HDMI 2.0, 3x DP 1.4	7680x4320@60Hz(DP)	DirectX 12
NVIDIA® GeForce® GTX 1050	Discrete	2GB GDDR5	1x HDMI 2.0, 1x DP 1.4, 1x DVI	4096x2160@60Hz(HDMI), 7680x4320@60Hz(DP), 2560x1600@60Hz(DVI)	DirectX 12
NVIDIA GeForce GTX 1060	Discrete	6GB GDDR5	1x HDMI 2.0, 1x DVI, 3x DP 1.3	4096x2160@60Hz(HDMI), 5120x3200@60Hz(DP), 2560x1600@60Hz(DVI)	DirectX 12 VR ready
NVIDIA GeForce GTX 1650	Discrete	4GB GDDR5	1x HDMI 2.0b, 2x 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 GTX 1660 Ti	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
NVIDIA GeForce RTX 2070 CD	Discrete	8GB GDDR6	1x HDMI 2.0b, 3x DP 1.4	7680x4320@60Hz(DP)	DirectX 12 VR ready

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 5 independent displays via discrete graphics ports** (DP, HDMI, USB-C 3.2 Gen2, and DVI)

Chipset

Chipset

AMD B450 chipset

Memory

Memory Type

DDR4-2666

Memory Slots

Two DDR4 UDIMM slots, dual-channel capable

Memory Protection

Non-ECC

Max Memory^[1]

Up to 32GB 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 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	-	-

Removable Storage

Optical

- DVD burner (DVD±RW), SATA 1.5Gb/s, slim (9.0mm)
- None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC233 codec

Power Supply

Power Supply

Power	Type	Efficiency	Key Features
350W	Fixed	-	100V - 240V
450W	Fixed	-	100V - 240V
500W	Fixed	-	100V - 240V

DESIGN

Input Device

Keyboard

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

Mouse

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

Mechanical

Form Factor

Tower (28L)

Dimensions (WxDxH)

184.5mm x 456 x 440mm (7.26 x 17.95 x 17.32 inches)

Weight

12kg (26.46 lbs)

Case Color

Raven black

Bays

- 1x slim ODD bay
- 2x 3.5" disk bay

Expansion Slots

- One PCIe 3.0 x16, full-length (< 312mm) full-height (< 111mm)
- One PCIe 3.0 x1, full-length (< 312mm) full-height (< 111mm)
- Two M.2 slots (one for WLAN, one for SSD)

Cooling System (Fan&Cooler)

- (Optional) Rear system fan
- (Optional) Front system fan, rear system fan

System Lighting

Red internal system lighting

Others

Carry handle

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, Realtek RTL8118AS, 1x RJ45

WLAN + Bluetooth™

- 802.11ac 2x2 Wi-Fi + Bluetooth 4.0, M.2 card
- 802.11ac 1x1 Wi-Fi + Bluetooth 4.1, M.2 card

- No WLAN and Bluetooth

Ports

Rear Ports^[1]

- 2x USB 2.0
- 2x USB 3.1 Gen 1
- 2x USB 3.1 Gen 2
- 1x Ethernet (RJ-45)
- 1x headphone / microphone combo jack (3.5mm)
- 1x power connector

Top Ports

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

Notes:

1. For video ports on discrete graphics, please see graphics section

SECURITY & PRIVACY

Security

BIOS Security

- Power-on password
- Administrator password

SERVICE

Warranty

Base Warranty

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

CERTIFICATIONS

Green Certifications

Green Certifications

- ErP Lot 3
- RoHS compliant



AMD



AMD



AMD



AMD



AMD



AMD