

OVERVIEW



1. 2x USB 3.2 Gen 1	7. Microphone (3.5mm)
2. Headphone / microphone combo jack (3.5mm)	8. Ethernet (RJ-45)
3. Power button	9. Line-out (3.5mm)
4. USB-C 3.2 Gen 1	10. Line-in (3.5mm)
5. 2x USB 3.2 Gen 1	11. Optional ports on expansion cards
6. 2x USB 2.0	12. Power connector

PERFORMANCE

Processor

Processor Family

10th Generation Intel® Core™ i5 / i7 / i9 Processor

Processor**^[1]

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™ i9-10900	10	20	2.8GHz	5.2GHz	20MB	DDR4-2933	Intel® UHD Graphics 630

Notes:

[1] Intel® UHD Graphics in processor is disabled.

Intel® Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see <http://www.intel.com/technology/turboboost/> for more information.

Operating System

Operating System**

- Windows® 10 Home 64
- Windows® 10 Home 64 Single Language
- FreeDOS

Graphics

Graphics**^[1]

Graphics	Type	Memory	Connector	Max Resolution	Key Features
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
NVIDIA® GeForce RTX™ 2070 CD	Discrete	8GB GDDR6	1x HDMI® 2.0b, 3x DP 1.4	7680x4320@60Hz(DP)	DirectX® 12 VR ready
NVIDIA® GeForce RTX™ 3070	Discrete	8G GDDR6	3x DP 1.4a, 1x HDMI® 2.1	7680x4320@60Hz(HDMI®); 7680x4320@60Hz(DP)	DirectX® 12

Notes:

[1] The information of integrated graphics are not applicable for the models with processor which has no integrated graphics inside (for the details, please refer to processor section).

Monitor Support

Monitor Support^[1]

Supports up to 4 independent displays via discrete graphics

Notes:

[1] Ports may vary by the discrete graphics.

Chipset

Chipset

Intel® B460 chipset

Memory

Max Memory^[1]

Up to 128GB DDR4-2933

Memory Slots

Four DDR4 UDIMM slots, dual-channel capable

Memory Type[2]**

- DDR4-2933
- DDR4-3200, Armor

Memory Protection

Non-ECC

Notes:

[1] The max memory is based on the test results with current Lenovo® memory offerings.

[2] Installed memory is actually 2933MHz or 3200MHz, but may run at 2666MHz or 2933MHz depending on the memory support capability of processor.

Storage

Storage Support[1]

Up to two drives, 1x 3.5" HDD + 1x M.2 SSD

- 3.5" HDD up to 2TB
- M.2 SSD up to 1TB
- Optional Intel® Optane™ Memory Integrated with SSD, M.2

Storage Type***

Disk Type	Interface	RPM
3.5" SATA HDD	SATA 6Gb/s	7.2K
M.2 2280 SSD	PCIe® NVMe®	-
Intel® Optane™ Memory with Solid State Storage, M.2 2280	PCIe® NVMe®, PCIe® 3.0 x4	-

RAID

No support

Notes:

[1] The max capacity of each disk type is based on the test results with current Lenovo® storage offerings.

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® ALC887 codec

Speakers

No speakers

Power Supply

Power Supply**

Power	Type	Key Features
350W	Fixed	100-240V, 50-60Hz
400W	Fixed	100V - 240V
650W	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
- No mouse

Mechanical

Form Factor

Tower (28L)

Dimensions (WxDxH)^[1]

184.5 x 455.8 x 457 mm (7.26 x 17.94 x 17.99 inches)

Packaging Dimensions (WxDxH)

330 x 600 x 554 mm (13 x 23.6 x 21.8 inches)

Weight^[2]

14 kg (30.86 lbs)

Packaging Weight

All models: Around 16 kg (35.27 lbs)

Case Color

Phantom black

Chassis

Normal side cover

Bays

2x 3.5" disk bay

Expansion Slots

- One PCIe® 3.0 x16
- One PCIe® 3.0 x4
- Two PCIe® 3.0 x1
- Three M.2 slots (one for WLAN, two for SSD)

Cooling System (Fan & Cooler)^{***}

- (Optional) 1x front system fan, 1x rear system fan for airflow or liquid
- (Optional) 65W Air-Cooler, 95W Air-Cooler, 150W Air-Cooler, or 150W Liquid-Cooler

System Lighting

Legion big-Y iconic LED

Others

(Optional) Carry handle

Notes:

[1] The system dimensions may vary depending on configurations.

[2] The system weight is approximate and based on results in Lenovo® lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, 1x RJ-45

WLAN + Bluetooth®**

- 802.11ac 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.1, M.2 card^[1]
- No WLAN and Bluetooth®

Notes:

[1] Bluetooth® 5.2 is hardware ready but may run at a lower version due to OS limitations.

Ports^[1]

Front Ports

None

Rear Ports^[2]

- 1x USB-C® 3.2 Gen 1 (support data transfer and 5V@3A charging)
- 2x USB 2.0
- 2x USB 3.2 Gen 1
- 1x Ethernet (RJ-45)
- 1x line-in (3.5mm)
- 1x line-out (3.5mm)
- 1x microphone (3.5mm)
- 1x power connector

Top Ports

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

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;

USB4® 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4® 40Gbps (USB 40Gbps): 40 Gbit/s;

Thunderbolt™ 3/4: 40 Gbit/s.

[2] For video ports on discrete graphics, please see graphics section.

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

BIOS Security

- Administrator password
- Power-on password

SERVICE

Warranty^[1]

Base Warranty**

- 1-year courier or carry-in service
- 2-year courier or carry-in service

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details of warranty policy, please access <https://pcsupport.lenovo.com/warranty>.

ENVIRONMENTAL

Operating Environment

Temperature

Storage: -40°C (-40°F) to 60°C (140°F)

Humidity

- Operating: 20% to 80%
- Storage: 10% to 90%

Altitude

- Operating: 0 m (0 ft) to 3048 m (10,000 ft)
- Storage: 0 m (0 ft) to 12192 m (40,000 ft)

CERTIFICATIONS

Green Certifications^[1]

Green Certifications

- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

- Feature with ** means that only one offering listed under the feature is configured on selected models.
- Feature with *** means that one or more offerings listed under the feature could be configured on selected models.
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