

PERFORMANCE

Processor

Processor Family

Intel® Celeron®, Intel Pentium®, 10th Generation Intel Core™ i3 / i5 / i7 Processor, or 11th Generation Intel Core i5 / i7 / i9 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i3-10105	4	8	3.7GHz	4.4GHz	6MB	DDR4-2666	Intel UHD Graphics 630
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 i5-11400	6	12	2.6GHz	4.4GHz	12MB	DDR4-3200	Intel UHD Graphics 730
Core i5-11400F	6	12	2.6GHz	4.4GHz	12MB	DDR4-3200	-
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	-
Core i7-11700	8	16	2.5GHz	4.9GHz	16MB	DDR4-3200	Intel UHD Graphics 750
Core i9-11900	8	16	2.5GHz	5.2GHz	16MB	DDR4-3200	Intel UHD Graphics 750

Operating System

Operating System

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

Graphics

Graphics^[1]

Graphics	Type	Memory	Connector	Max Resolution	Key Features	Remark
Intel UHD Graphics 610	Integrated	Shared	1x HDMI® 2.0, 1x VGA, 1x DP 1.4	4096x2160@30Hz(HDMI), 1920x1080@60Hz(VGA), 4096x2304@60Hz(DP)	DirectX® 12	-
Intel UHD Graphics 630	Integrated	Shared	1x HDMI 2.0, 1x VGA, 1x DP 1.2	4096x2160@30Hz(HDMI), 1920x1080@60Hz(VGA), 4096x2304@60Hz(DP)	DirectX 12	-
Intel UHD Graphics 730	Integrated	Shared	1x HDMI 2.0, 1x VGA, 1x DP 1.4	4096x2160@60Hz(HDMI), 2048x1536@50Hz(VGA), 5120x3200@60Hz(DP)	DirectX 12	-
Intel UHD Graphics 750	Integrated	Shared	1x HDMI 2.0, 1x VGA, 1x DP 1.4	4096x2160@60Hz(HDMI), 2048x1536@50Hz(VGA), 5120x3200@60Hz(DP)	DirectX 12	-
AMD Radeon™ RX 550X	Discrete	4GB GDDR5	1x HDMI 2.0, 1x VGA, 1x DP 1.4	4096x2160@60Hz(HDMI), 2048x1536@85Hz(VGA), 3840x2160@60Hz(DP)	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 3 independent displays via onboard ports (1x VGA +1x HDMI +1x DisplayPort™), more displays support via discrete graphics

Chipset

Chipset

Intel B560 chipset

Memory

Memory Type^[1]

DDR4-2666

Memory Slots

Two DDR4 UDIMM slots, dual-channel capable

Memory Protection

Non-ECC

Max Memory^[2]

Up to 32GB DDR4-2666

Notes:

1. Installed memory is actually 3200MHz, but may run at 2666MHz, 2933 MHz or 3200MHz depending on the memory support capability of processor
2. 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 up to 512GB

RAID

Not support

Storage Type

Disk Type	Interface	RPM	Security
3.5" SATA HDD	SATA 6Gb/s	7.2K	-
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x4	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	Opal2

Removable Storage

Optical

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

Card Reader

- 3-in-1 card reader (SD, SDHC, SDXC)
- No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC623-CG codec

Speakers

- Single speaker, 2W x1
- No speakers

Microphone

No microphone

Camera

No camera

Power Supply

Power Supply

Power	Type	Efficiency
180W	Fixed	85%
260W	Fixed	85%
310W	Fixed	92%
380W	Fixed	92%

DESIGN

Input Device

Keyboard

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

Mouse

- Euterpe Wireless Mouse, grey
- Lenovo Calliope Mouse (USB connector), black
- Lenovo Fingerprint Mouse (USB connector), black
- No mouse

Mechanical

Buttons

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

Form Factor

Tower (13.6L)

Dimensions (WxDxH)

WxDxH:145 x 278 x 340 mm (5.7 x 10.94 x 13.39 inches)

Weight

4.8 kg (10.6 lbs)

Case Color

Chassis: Black, Bezel: Silver

Bays

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

Expansion Slots

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

Stand

No stand

Cooling System (Fan&Cooler)

(Optional) Front system fan

Others

Supports Smart Power On

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, Realtek RTL8111HN, 1x RJ45, supports Wake-on-LAN

Optional Ethernet

No optional Ethernet

WLAN + Bluetooth™

- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Realtek RTL8852AE, 802.11ax Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wireless-AC 9260, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- None

Ports^[1]

Front Ports

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

Optional Front Ports

1x card reader

Rear Ports^[2]

- 4x USB 2.0
- 1x serial (9-pin)
- 1x Ethernet (RJ-45)
- 1x HDMI 2.0
- 1x DisplayPort 1.4
- 1x VGA
- 1x line-in (3.5mm)

Optional Rear Ports

- 2nd serial
- 1x parallel
- 2x PS/2 ports (keyboard/mouse)
- 1x PS/2 + 1x parallel + 1x 2nd serial
- 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

Monitor Cable

Monitor Cable

- Lenovo DisplayPort to DVI Monitor Adapter
- Lenovo HDMI to DVI Monitor Adapter
- No monitor cable

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

Physical Locks

- Kensington® Security Slot
- Padlock Loop
- (Optional) Smart Cable Clip

Chassis Intrusion Switch

- (Optional) Chassis intrusion switch
- No chassis intrusion switch

Fingerprint Reader

- Touch style fingerprint reader on mouse
- No fingerprint reader

BIOS Security

- Power-on password
- Administrator password
- Disable IO ports by bios: USB, Audio
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)

MANAGEABILITY

System Management

System Management

None

SERVICE

Warranty

Base Warranty

- 1-year depot service
- 1-year limited onsite service

ENVIRONMENTAL

Operating Environment

Temperature^[1]

- Storage without packaging: From -10°C (14°F) to 60°C (140°F)
- Operating: From 10°C (50°F) to 35°C (95°F)
- Storage in original shipping packaging: From -40°C (-40°F) to 60°C (140°F)

Humidity

- Operating: 20%-80% (non-condensing)
- Storage: 20%-90% (non-condensing)

Altitude

- Operating: From -15.2 m (-50 ft) to 3048 m (10,000 ft)
- Storage: From -15.2 m (-50 ft) to 10668 m (35,000 ft)

Notes:

1. If your computer is stored or transported in temperatures less than 10°C (50°F), allow the computer to rise slowly to an optimal operating temperature before use. This process might take up to two hours. Using the computer in a lower operating temperature might result in irreparable damage to your computer.

ACCESSORIES

Bundled Accessories

Bundled Accessories

None

CERTIFICATIONS

Green Certifications

Green Certifications

- (Optional) EPEAT™ Silver
- (Optional) ENERGY STAR® 8.0
- RoHS compliant
- WEEE
- REACH

Other Certifications

Other Certifications

(Optional) TÜV Low Noise certified

