

OVERVIEW



1. HDMI-in	8. Optical drive *
2. Power connector	9. Power button
3. Ethernet (RJ-45)	10. 2x USB 2.0
4. HDMI 1.4 out	11. USB 3.1 Gen 2
5. 2x USB 2.0	12. Card reader *
6. Kensington Security Slot	13. Headphone / microphone combo jack (3.5mm)
7. Kensington Security Slot	

Notes:

- Ports with * are only available on selected models

PERFORMANCE

Processor

Processor Family

8th Generation Intel® Core™ i3 / i5 Processor

Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Core i3-8145U	2	4	2.1GHz	3.9GHz	4MB	DDR4-2400	Intel UHD Graphics
Core i5-8265U	4	8	1.6GHz	3.9GHz	6MB	DDR4-2400	Intel UHD Graphics

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
Intel UHD Graphics	Integrated	Shared	1x HDMI® 1.4	4096x2304@24Hz(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

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 32GB DDR4-2666

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Memory Type^[2]

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 run at 2400MHz depending on the memory support capability of processor

Storage

Storage Support

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

- 3.5" HDD up to 1TB
- M.2 up to 512GB

Storage Type

Disk Type	Interface	RPM	Security
2.5" SATA HDD	SATA 6Gb/s	5.4K	-
2.5" SATA HDD	SATA 6Gb/s	7.2K	-
M.2 2242 SSD	PCIe NVMe, PCIe 3.0 x2	-	-
M.2 2280 SSD	PCIe NVMe, PCIe 3.0 x4	-	-
Intel Optane™ Memory M10	PCIe NVMe, PCIe 3.0 x2	-	-

RAID
No support

Removable Storage

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

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

Multi-Media

Audio Chip
High Definition (HD) Audio, Realtek® ALC233 codec

Speakers
Stereo speakers, 3W x2

- Microphone**
- Dual array microphone
 - No microphone

- Camera**
- 720p webcam, LED indicator, with privacy camera cover
 - No camera

Power Supply

Power	Type	Efficiency	Key Features
65W	Adapter	88%	Autosensing

DESIGN

Display

Display^[1]

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: +/- 89°	Borderless design, anti-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 Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard, black
- No keyboard

Mouse

- Lenovo Calliope Mouse (USB connector), black
- Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
- No mouse

Mechanical

Buttons

- Power button
- Optical drive eject button (ODD models only)
- Camera cover slider

Form Factor

AIO (24 inches)

Dimensions (WxDxH)

541 x 214 x 450 mm (21.3 x 8.4 x 17.7 inches)

Weight

Models	Weight
Models with monitor stand	6.4 kg (14.1 lbs)
Models without stand	4.8 kg (10.6 lbs)

Case Color

Black

Bays

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

Expansion Slots

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

Stand

- Monitor stand, supports -5° to +35° tilt, left & right 45° swivel
- No stand

Mounting

Supports VESA mount 100mm

CONNECTIVITY

Network

Onboard Ethernet

Gigabit Ethernet, 1x RJ45

WLAN + Bluetooth®

- Realtek RTL8822BE, 802.11ac Dual Band 2x2 Wi-Fi® + Bluetooth 4.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 4.0, M.2 card
- No WLAN and Bluetooth

Ports^[1]

Rear Ports^[2]

- 2x USB 2.0
- 1x USB 3.1 Gen 2
- 1x HDMI-out 1.4

- 1x HDMI-in
- 1x Ethernet (RJ-45)
- 1x power connector

Left Ports

- 2x USB 2.0
- 1x USB 3.1 Gen 2
- 1x card reader
- 1x headphone / microphone combo jack (3.5mm)

Optional Left Ports

None

Right Ports

None

Optional 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

Security Chip

Firmware TPM 2.0 integrated in chipset

Physical Locks

- Security lock Slot
- No physical locks

Other Security

(Optional) ThinkShutter camera cover

BIOS Security

- Administrator password
- Power-on password
- Hard disk password
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- Individual USB port disablement

SERVICE

Warranty

Base Warranty

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

ENVIRONMENTAL

Operating Environment

Temperature

- Storage: -20°C (-4°F) to 60°C (140°F)

- Operating: 5°C (41°F) to 35°C (95°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

EPEAT™ Silver

Other Certifications

Other Certifications

- TÜV Rheinland Low Blue Light
- TÜV Rheinland Ultra Low Noise

