

## PERFORMANCE

### Processor

#### Processor Family

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

#### Processor

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Memory Support	Processor Graphics
Celeron G5900	2	2	3.4GHz	-	2MB	DDR4-2666	Intel UHD Graphics 610
Celeron G5905	2	2	3.5GHz	-	4MB	DDR4-2666	Intel UHD Graphics 610
Celeron G5920	2	2	3.5GHz	-	2MB	DDR4-2666	Intel UHD Graphics 610
Celeron G5925	2	2	3.6GHz	-	4MB	DDR4-2666	Intel UHD Graphics 610
Pentium Gold G6400	2	4	4.0GHz	-	4MB	DDR4-2666	Intel UHD Graphics 610
Pentium Gold G6500	2	4	4.1GHz	-	4MB	DDR4-2666	Intel UHD Graphics 630
Pentium Gold G6600	2	4	4.2GHz	-	4MB	DDR4-2666	Intel UHD Graphics 630
Core i3-10100	4	8	3.6GHz	4.3GHz	6MB	DDR4-2666	Intel UHD Graphics 630
Core i3-10300	4	8	3.7GHz	4.4GHz	8MB	DDR4-2666	Intel UHD Graphics 630
Core i3-10320	4	8	3.8GHz	4.6GHz	8MB	DDR4-2666	Intel UHD Graphics 630
Core i5-10400	6	12	2.9GHz	4.3GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i5-10500	6	12	3.1GHz	4.5GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i5-10600	6	12	3.3GHz	4.8GHz	12MB	DDR4-2666	Intel UHD Graphics 630
Core i7-10700	8	16	2.9GHz	4.8GHz	16MB	DDR4-2933	Intel UHD Graphics 630
Core i9-10900	10	20	2.8GHz	5.2GHz	20MB	DDR4-2933	Intel UHD Graphics 630

### Operating System

#### Operating System

- Windows® 10 Home 64
- Windows 10 Pro 64
- Windows 10 IoT Enterprise
- Ubuntu Linux
- No operating system

### Graphics

#### Graphics<sup>[1]</sup>

Graphics	Type	Memory	Connector	Max Resolution	Key Features
Intel UHD graphics 610	Integrated	Shared	1x DP	4096x2304@60Hz(DP)	DirectX® 12
Intel UHD graphics 630	Integrated	Shared	1x DP	4096x2304@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 2 independent displays via native display and 1 external monitor; supports external monitor via DisplayPort™

### Chipset

#### Chipset

Intel H470 chipset

### Memory

### Memory Type

- DDR4-2666
- DDR4-2933

### Memory Slots

Two DDR4 SO-DIMM slots

### Memory Protection

Non-ECC

### Max Memory<sup>[1]</sup>

Up to 64GB DDR4-2933

#### 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 two drives, 1x 2.5" HDD + 1x M.2 2242/2280 SSD

- 2.5" HDD up to 2TB
- M.2 SSD up to 1TB
- Optional Intel Optane™ Memory, M.2

### RAID

Not support

### Storage Type

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

## 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
- No card reader

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC233 codec

### Speakers

Stereo speakers, 2W x2

### Microphone

Dual array microphone

### Camera

- 1080p, with ThinkShutter (physical switch on/off)
- IR & 1080p, with ThinkShutter (physical switch on/off), Windows Hello support
- No camera

## Power Supply

## Power Supply

Power	Type	Efficiency	Key Features
135W	Adapter	89%	Autosensing
170W	Adapter	89%	Autosensing

## DESIGN

### Display

#### Display<sup>[2]</sup>

Size	Resolution	Touch	Type	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle	Key Features
21.5"	FHD (1920x1080)	Multi-touch	IPS	250 nits	Anti-glare	16:9	1000:1	-	horizontal: +/- 89°, vertical: +/- 89°	borderless design (88% Screen to Body Ratio)
21.5"	FHD (1920x1080)	None	IPS	250 nits	Anti-glare	16:9	1000:1	-	horizontal: +/- 89°, vertical: +/- 89°	borderless design (88% Screen to Body Ratio)

#### Touchscreen

- Advanced In-cell Touch (AIT), supports 10-point touch
- Non-touch

#### Notes:

- 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>
- IPS (In Plane Switching) technology may refer to IPS, PLS, ADS, AHVA, AAS

## Input Device

### Keyboard

- Lenovo Calliope Keyboard (USB connector), black
- Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black
- Lenovo Traditional Keyboard (USB connector), black
- No keyboard

### Mouse

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

## Mechanical

### Buttons

- Power button
- Microphone mute button

### Form Factor

AIO (21.5 inches)

#### Dimensions (WxDxH)

Models	Dimensions
Models (without stand, without ODD, with camera)	490.14 x 46 x 297.75 mm (19.3 x 1.8 x 11.7 inches)
Models (with UltraFlex IV stand, with camera)	Lowest in flat mode: 490.17 x 288.17 x 197.04 mm (19.3 x 11.3 x 7.8 inches) Highest in vertical mode: 490.17 x 232.75 x 439.28 mm (19.3 x 9.2 x 17.3 inches)
Models (without stand, with ODD, with Camera)	490.14 x 57.8 x 297.75 mm (19.3 x 2.3 x 11.7 inches)

Models (with full function monitor stand, with camera)	490.14 x 199.82 x 386.05 to 466.04 mm (19.3 x 7.9 x 15.2 to 18.3 inches)
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**Weight**

Models	Weight
Models (without stand, with ODD)	Non-touch: 5.12 kg (11.3 lbs) Touch: 4.88 kg (10.8 lbs)
Models (with full function monitor stand, with ODD)	Non-touch: 7.33 kg (16.2 lbs) Touch: 7.09 kg (15.6 lbs)
Models (with UltraFlex IV stand, without ODD)	Non-touch: 7.62 kg (16.8 lbs) Touch: 7.38 kg (16.3 lbs)
Models (with full function monitor stand, without ODD)	Non-touch: 7.07 kg (15.6 lbs) Touch: 6.83 kg (15.1 lbs)
Models (with UltraFlex IV stand, with ODD)	Non-touch: 7.88 kg (17.4 lbs) Touch: 7.65 kg (16.9 lbs)
Models (without stand, without ODD)	Non-touch: 4.86 kg (10.7 lbs) Touch: 4.62 kg (10.2 lbs)

**Case Color**

Black

**Bays**

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

**Expansion Slots**

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

**EOU**

Toolless cover and stand assembly / removal

**Stand**

- Full function monitor stand, supports -5° to +30° tilt, up to 80mm lift
- UltraFlex IV stand, supports -5° to +70° tilt, up to 164mm lift (flat mode) / up to 115mm lift (vertical mode)
- No stand

**Mounting**

Supports VESA mount (100mm)

**CONNECTIVITY****Network****Onboard Ethernet**

One gigabit Ethernet, Realtek RTL8111K, 1x RJ-45, Wake on LAN®

**Optional Ethernet**

No optional Ethernet

**WLAN + Bluetooth™**

- Realtek RTL8822BE, 802.11ac Dual Band 1x1 Wi-Fi + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Intel Wireless-AC 9462, 802.11ac Dual Band 1x1 Wi-Fi + Bluetooth 5.0, M.2 card
- Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

**Ports****Rear Ports<sup>[1]</sup>**

- 4x USB 3.2 Gen 1 (one supports Smart Power On)
- 1x Ethernet (RJ-45)
- 1x DisplayPort

**Optional Rear Ports**

1x serial

**Right Ports**

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 2
- 1x USB-C 3.2 Gen 1 (5V/3A charging)

- 1x headphone / microphone combo jack (3.5mm)

## Optional Right Ports

1x card reader

### Notes:

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

## Monitor Cable

### Monitor Cable

- DP to VGA dongle
- DP to dual DP dongle
- DP to DVI-D dongle
- DP to HDMI® 1.4 dongle
- No monitor cable

## SECURITY & PRIVACY

### Security

#### Security Chip

Discrete TPM 2.0, TCG certified

#### Physical Locks

Kensington® Security Slot

#### Chassis Intrusion Switch

- Chassis intrusion switch
- No chassis intrusion switch

#### Fingerprint Reader

- Touch style fingerprint reader on mouse
- No fingerprint reader

#### Other Security

- ThinkShutter camera cover
- None

#### BIOS Security

- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Smart USB protection (allows keyboard / mouse only, blocks all storage devices)
- Individual USB port disablement
- Self-healing BIOS

## MANAGEABILITY

### System Management

#### System Management

None

## SERVICE

### Warranty

#### Base Warranty

- 1-year depot service
- 1-year limited onsite service
- 3-year limited onsite service
- No base warranty

## CERTIFICATIONS

### Green Certifications

#### Green Certifications

- EPEAT™ Silver
- ENERGY STAR® 8.0
- ErP Lot 3
- TCO Certified 8.0
- TCO edge
- RoHS compliant

### Other Certifications

#### Other Certifications

- (Optional) TÜV Low Noise certified
- (Optional) TÜV Ultra Low Noise certified
- None

#### Mil-Spec Test

MIL-STD-810H military test passed (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

