

## 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 G5900T      | 2     | 2       | 3.2GHz         | -             | 2MB   | DDR4-2666      | Intel UHD Graphics 610 |
| Celeron G5905T      | 2     | 2       | 3.3GHz         | -             | 4MB   | DDR4-2666      | Intel UHD Graphics 610 |
| Pentium Gold G6400T | 2     | 4       | 3.4GHz         | -             | 4MB   | DDR4-2666      | Intel UHD Graphics 610 |
| Pentium Gold G6500T | 2     | 4       | 3.5GHz         | -             | 4MB   | DDR4-2666      | Intel UHD Graphics 630 |
| Core i3-10100T      | 4     | 8       | 3.0GHz         | 3.8GHz        | 6MB   | DDR4-2666      | Intel UHD Graphics 630 |
| Core i3-10300T      | 4     | 8       | 3.0GHz         | 3.9GHz        | 8MB   | DDR4-2666      | Intel UHD Graphics 630 |
| Core i5-10400T      | 6     | 12      | 2.0GHz         | 3.6GHz        | 12MB  | DDR4-2666      | Intel UHD Graphics 630 |
| Core i5-10500T      | 6     | 12      | 2.3GHz         | 3.8GHz        | 12MB  | DDR4-2666      | Intel UHD Graphics 630 |
| Core i5-10600T      | 6     | 12      | 2.4GHz         | 4.0GHz        | 12MB  | DDR4-2666      | Intel UHD Graphics 630 |
| Core i7-10700T      | 8     | 16      | 2.0GHz         | 4.5GHz        | 16MB  | DDR4-2933      | Intel UHD Graphics 630 |
| Core i9-10900T      | 10    | 20      | 1.9GHz         | 4.6GHz        | 20MB  | DDR4-2933      | Intel UHD Graphics 630 |

### Operating System

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

### Graphics

| Graphics               | Type       | Memory | Connector   | Max Resolution   | Key Features |
|------------------------|------------|--------|---|--|--------------|
| Intel UHD graphics 610 | Integrated | Shared | 1x HDMI®, 1x DP, 1x optional video port (2nd HDMI, VGA, 2nd DP, USB-C, dual DP) | 4096x2160@24Hz(onboard HDMI), 4096x2304@60Hz(DP), 3840x2160@60Hz(Dual DP, MST mode), 2048x1536@50Hz(VGA), 4096x2304@60Hz(USB-C), 3840x2160@60Hz(Dual DP, MST mode) | DirectX® 12  |
| Intel UHD graphics 630 | Integrated | Shared | 1x HDMI, 1x DP, 1x optional video port (2nd HDMI, VGA, 2nd DP, USB-C, dual DP)  | 4096x2160@24Hz(onboard HDMI), 4096x2304@60Hz(DP), 3840x2160@60Hz(Dual DP, MST mode), 2048x1536@50Hz(VGA), 4096x2304@60Hz(USB-C)                                    | DirectX 12   |

#### Notes:

- 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

Supports up to 3 independent displays via two onboard ports (DP + HDMI) + one optional port (VGA / 2nd DP / 2nd HDMI / USB-C) , or via one onboard (DP / HDMI) + optional dual DP (MST mode)

## Chipset

Intel H470 chipset

## Memory

### Memory Type

- DDR4-2666
- DDR4-2933

Notes:

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

### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

### Memory Protection

Non-ECC

### Max Memory

Up to 64GB DDR4-2933

Notes:

- 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 1TB
- M.2 SSD up to 2TB
- 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 | -        |
| 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 | -    | -        |
| 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, slim (9.0mm), via USB external ODD box
- DVD burner (DVD±RW), slim (9.0mm), via USB external ODD box
- None

### Card Reader

No card reader

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC233VB codec

### Speakers

Single speaker, 1.5W x1

## Power Supply

| Power           | Type    | Efficiency | Key Features |
|-----------------|---------|------------|--------------|
| 65W             | Adapter | 89%        | Autosensing  |
| 135W            | Adapter | 89%        | Autosensing  |
| No power supply | -       | -          | -            |

## DESIGN

### 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

#### Form Factor

Tiny (1L)

#### Dimensions (WxDxH)

| Models                    | Dimensions  |
|---------------------------|---|
| Tiny only                 | 179 x 183 x 34.5 / 37 mm with rubber feet (7.05 x 7.2 x 1.36 / 1.5 inches with rubber feet) |
| With VESA mount & ODD box | 187 x 183.8 x 66.5 mm (7.36 x 7.24 x 2.62 inches)   |

#### Weight

| Models                    | Weight             |
|---------------------------|--------------------|
| Tiny only                 | 1.25 kg (2.76 lbs) |
| With VESA mount & ODD box | 1.74 kg (3.84 lbs) |

#### Case Color

Black

#### Bays

1x 2.5" disk bay

#### Expansion Slots

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

#### EOU

(Optional) Toolless chassis open (Toolless Chassis Screw required) and toolless M.2 SSD, HDD, memory assembly / removal

#### Stand

- Vertical stand
- No stand

#### Mounting

- VESA mount bracket kit, supports VESA 75mm and 100mm
- Not configured

#### Others

- (Optional) Dust Filter
- (Optional) power adapter cage

## CONNECTIVITY

### Network

#### Onboard Ethernet

Gigabit Ethernet, Intel Ethernet Connection I219-V, 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
- Intel Wireless-AC 9462, 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 Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card
- No WLAN and Bluetooth

### Ports

#### Front Ports

- 1x USB 3.2 Gen 2 (Always On and fast charge)
- 1x USB-C 3.2 Gen 1
- 1x headphone / microphone combo jack (3.5mm)

#### Notes:

- 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;

#### Optional Front Ports

None

#### Rear Ports

- 3x USB 3.2 Gen 1
- 1x USB 3.2 Gen 2
- 1x Ethernet (RJ-45)
- 1x HDMI
- 1x DisplayPort™

#### Notes:

- For video ports on discrete graphics, please see graphics section

#### Optional Rear Ports

- Optional Port 1 (VGA / 2nd DisplayPort / 2nd HDMI / serial / USB-C 3.2 Gen 1 with DisplayPort function, select one)
- Optional Port 2 (serial)
- Dual USB 3.2 Gen 1 ports (share one USB 3.2 Gen 1 bandwidth, occupy optional port 1 and 2)
- Dual DisplayPort ports (occupy Optional Port 1 and 2)

### Monitor Cable

- DP to VGA dongle
- DP to dual DP dongle
- HDMI to HDMI Cable (1.5m)
- HDMI to VGA Dongle
- DP to DVI-D dongle
- DP to HDMI 1.4 dongle
- DP to VGA Cable (1.5M)
- 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

### Fingerprint Reader

- Touch style fingerprint reader on mouse
- No fingerprint reader

### 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

## MANAGEABILITY

### System Management

None

## SERVICE

### Warranty

#### Base Warranty

- 1-year limited onsite service
- 3-year limited onsite service

## CERTIFICATIONS

### Green Certifications

- (Optional) EPEAT™ Gold
- (Optional) EPEAT Silver
- ENERGY STAR® 8.0
- ErP Lot 3
- TCO Certified 8.0
- 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)

