

## OVERVIEW



|  |                                    |
|--|------------------------------------|
| 1. Headphone / microphone combo jack (3.5mm) | 6. Kensington Security Slot        |
| 2. Card reader                               | 7. Power connector                 |
| 3. HDMI 2.0                                  | 8. USB-C 3.2 Gen 2 / Thunderbolt 3 |
| 4. 2x USB 3.2 Gen 1 (one Always On)          | 9. Smart card reader *             |
| 5. Ethernet (RJ-45)                          |                                    |

Notes:

- Ports with \* are only available on selected models
- Optional nano-SIM card slot on the rear side (not shown on the sample product above)

## PERFORMANCE

### Processor

#### Processor Family

10th Generation Intel® Core™ i5 / i7 Processor

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

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|----------------|-------|---------|----------------|---------------|-------|----------------|--------------------|
| Core i5-10300H | 4     | 8       | 2.5GHz         | 4.5GHz        | 8MB   | DDR4-2933      | Intel UHD Graphics |
| Core i5-10400H | 4     | 8       | 2.6GHz         | 4.6GHz        | 8MB   | DDR4-2933      | Intel UHD Graphics |
| Core i7-10750H | 6     | 12      | 2.6GHz         | 5.0GHz        | 12MB  | DDR4-2933      | Intel UHD Graphics |
| Core i7-10850H | 6     | 12      | 2.7GHz         | 5.1GHz        | 12MB  | DDR4-2933      | Intel UHD Graphics |
| Core i7-10875H | 8     | 16      | 2.3GHz         | 5.1GHz        | 16MB  | DDR4-3200      | Intel UHD Graphics |

Notes:

1. i7-10875H is NOT available in EMEA

### Operating System

#### Operating System

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

### Graphics

#### Graphics

| Graphics                  | Type       | Memory    | Key Features |
|---------------------------|------------|-----------|--------------|
| Intel UHD Graphics        | Integrated | Shared    | DirectX® 12  |
| NVIDIA® GeForce® GTX 1050 | Discrete   | 3GB GDDR5 | DirectX 12   |

### Monitor Support

#### Monitor Support

Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via HDMI® (up to 4K@60Hz) or Thunderbolt™ (up to 5K@60Hz)

### Chipset

#### Chipset

Intel WM490 chipset

### Memory

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

Up to 64GB DDR4-2933

#### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

#### Memory Type<sup>[2]</sup>

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.
2. Installed memory is actually 3200MHz but run at 2933MHz due to processor limitation

### Storage

#### Storage Support

# ThinkPad T15p Gen 1

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB
- RAID 0/1 support

## Storage Type

| Disk Type    | Interface              | RPM | Security |
|--------------|------------------------|-----|----------|
| M.2 2280 SSD | PCIe NVMe, PCIe 3.0 x4 | -   | Opal2    |

## RAID

RAID 0/1 support

## Removable Storage

### Optical

None

### Card Reader

SD card reader, supports UHS-II SD card

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

### Speakers

Stereo speakers, 2W x2, Dolby® Audio™

### Microphone

- Dual array microphone
- No microphone

### Camera

- 720p, with ThinkShutter, fixed focus
- IR & 720p hybrid, with ThinkShutter, fixed focus
- No camera

## Battery

### Battery

Integrated Li-Polymer 68Wh battery, supports Rapid Charge (charge up to 80% in 1hr)

### Max Battery Life<sup>[1]</sup>

MobileMark® 2014: 12.1 hr

MobileMark 2018: 7.9 hr

### Notes:

1. All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, and/or JEITA 2.0 battery-life benchmark tests. Actual battery life will vary and depends on many factors such as product configuration and usage, software use, wireless functionality, power management settings, and screen brightness. The maximum capacity of the battery will decrease with time and use.

## Power Adapter

### Power Adapter

- 135W slim tip (2-pin) AC adapter
- 135W slim tip (3-pin) AC adapter

## DESIGN

## Display

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

| Size  | Resolution      | Touch | Type | Brightness | Surface    | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Key Features |
|-------|-----------------|-------|------|------------|------------|--------------|----------------|-------------|---------------|--------------|
| 15.6" | FHD (1920x1080) | None  | IPS  | 250 nits   | Anti-glare | 16:9         | 700:1          | 45% NTSC    | 170°          | -            |

|       |                    |             |     |          |            |      |        |                       |      |                           |
|-------|--------------------|-------------|-----|----------|------------|------|--------|-----------------------|------|---------------------------|
| 15.6" | FHD<br>(1920x1080) | Multi-touch | IPS | 300 nits | Anti-glare | 16:9 | 800:1  | 45% NTSC              | 170° | -                         |
| 15.6" | UHD<br>(3840x2160) | None        | IPS | 600 nits | Anti-glare | 16:9 | 1400:1 | 100%<br>Adobe®<br>RGB | 178° | Dolby Vision™,<br>HDR 400 |

**Touchscreen**

- On-cell touch, 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**

6-row, spill-resistant, multimedia Fn keys with Unified Communications controls, numeric keypad

**Keyboard Backlight**

- LED backlight
- No support

**UltraNav™**

TrackPoint® pointing device and Mylar® surface multi-touch touchpad

**Mechanical****Dimensions (WxDxH)**

366.5 x 250 x 22.7 mm (14.43 x 9.84 x 0.89 inches)

**Weight<sup>[1]</sup>**

2.07 kg (4.57 lbs)

**Case Color**

Black

**Case Material**

PC + ABS (top), PC + ABS (bottom)

**Notes:**

1. The system weight varies depending on configurations

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

- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models)
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro models)

**WLAN + Bluetooth<sup>[1]</sup>**

Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2

**WWAN<sup>[2]</sup>**

- Wireless WAN upgradable to 4G
- Integrated Mobile Broadband 4G LTE-A, CAT9, Fibocom L850-GL, M.2 card
- No support

**SIM Card**

No SIM card inbox

**NFC**

No support

**Notes:**

1. Intel WiFi 6 full features might be limited by country level restrictions  
Bluetooth 5.2 is supported with driver version 22.30 and later
2. For non-WWAN model, it means the model is NOT WWAN upgradable

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

### Standard Ports<sup>[2]</sup>

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 / Thunderbolt 3 (support data transfer, Power Delivery and DisplayPort™ 1.2)
- 1x HDMI 2.0
- 1x SD card reader
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector

### Optional Ports

- 1x Nano-SIM card slot (WWAN model)
- 1x Smart card reader

### 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. Depending on many factors, actual data transfer speed may be lower than theoretical speed

## Monitor Cable

### Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to DisplayPort Adapter
- Lenovo USB-C to VGA Adapter
- No monitor cable

## SECURITY & PRIVACY

### Security

#### Security Chip

- Discrete TPM 2.0, TCG certified
- Firmware TPM 2.0 integrated in chipset
- Disabled (in some regions)

#### Physical Locks

Kensington® Security Slot

#### Smart Card Reader

- Smart card reader
- No smart card reader

#### Fingerprint Reader

Touch style fingerprint reader on palm rest, match-on-chip

#### BIOS Security

- Supervisor password
- Power-on password
- Hard disk password
- Self-healing BIOS

#### Other Security

- (Optional) ThinkShutter camera cover
- (Optional) IR camera for Windows Hello

## MANAGEABILITY

### System Management

#### System Management

- Intel vPro Technology, DASH
- None

## SERVICE

### Warranty

#### Base Warranty

- 1-year depot service
- 1-year depot with 2-year system board service
- 1-year limited onsite service
- 1-year + 2-year depot service
- 1-year + 2-year limited onsite service
- 3-year (1-yr battery) depot service
- 3-year (1-yr battery) limited onsite service
- No base warranty

## ENVIRONMENTAL

### Operating Environment

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

- Storage and transportation in original shipping package: -20°C (-4°F ) to 60°C (140°F)
- Storage without package: 5°C (41°F) to 43°C (109°F)
- Operating: 5°C (41°F) to 35°C (95°F)

#### Humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage and transportation: 5% to 95% at wet-bulb temperature 27°C (81°F)

#### Altitude

Maximum altitude (without pressurization): 3048 m (10,000 ft)

#### Notes:

1. When you charge the battery, its temperature must be no lower than 10°C (50°F)

## CERTIFICATIONS

### Green Certifications

#### Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- TCO
- RoHS compliant

### Other Certifications

#### Mil-Spec Test

MIL-STD-810G military test passed

