# PERFORMANCE

## Processor

**Processor Family**

11th Generation Intel® Core™ i3 / i5 / i7 Processor

**Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|---|---|---|---|---|---|---|---|
| Core i3-1115G4 | 2 | 4 | 3.0GHz | 4.1GHz | 6MB | DDR4-3200 | Intel UHD Graphics |
| Core i5-1135G7 | 4 | 8 | 2.4GHz | 4.2GHz | 8MB | DDR4-3200 | Intel Iris® Xe Graphics |
| Core i5-1145G7 | 4 | 8 | 2.6GHz | 4.4GHz | 8MB | DDR4-3200 | Intel Iris Xe Graphics |
| Core i7-1185G7 | 4 | 8 | 3.0GHz | 4.8GHz | 12MB | DDR4-3200 | Intel Iris Xe Graphics |
| Core i7-1165G7 | 4 | 8 | 2.8GHz | 4.7GHz | 12MB | DDR4-3200 | Intel Iris Xe Graphics |

## Operating System

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

## Monitor Support

Supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via HDMI® (up to 3840x2160@60Hz), USB-C (up to 5120x2160@60Hz) or Thunderbolt™ (up to 5120x2160@60Hz)

## Chipset

Intel SoC (System on Chip) platform

## Memory

**Memory Type**

DDR4-3200

**Memory Slots**

Memory soldered to systemboard, no slots

## Storage

**Storage Support**

One drive, 1x M.2 2280 SSD or 1x M.2 2242 SSD
• M.2 2280 SSD up to 1TB
• M.2 2242 SSD up to 512GB

**Storage Type**

| Disk Type | Interface | RPM | Security |
|---|---|---|---|
| M.2 2242 SSD | PCIe NVMe, PCIe 3.0 x2 | - | - |
| M.2 2280 SSD | PCIe NVMe, PCIe 3.0 x4 | - | Opal2 |

## Removable Storage

**Optical**

None

**Card Reader**

MicroSD card reader

## Multi-Media

**Audio Chip**

High Definition (HD) Audio, Synaptic® CX11880 codec

**Speakers**

Stereo speakers, 2W x2, Dolby® Audio™ Premium

**Microphone**

Dual array microphone

## Sensor

**Sensors**

Accelerometer (G) sensor

## Battery

**Battery**

Integrated Li-Polymer 46Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Max Battery Life**

MobileMark® 2014: 10.36 hr
MobileMark 2018: 8.36 hr
JEITA 2.0: 10.3 hr

Notes:

- All battery life claims are approximate maximum and based on results using the MobileMark 2014 and/or MobileMark 2018 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

- 45W USB-C AC adapter
- 65W USB-C AC adapter
- 65W USB-C slim AC adapter

# DESIGN

## Display

**Display**

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Key Features |
|------|-----------|-------|------|-----------|---------|-------------|---------------|-------------|--------------|-------------|
| 13.3″ | FHD (1920x1080) | Multi-touch | IPS | 300 nits | Anti-reflection, Anti-smudge | 16:9 | 800:1 | 72% | 170° | - |

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

**Touchscreen**

Capacitive-type multi-touch, supports 10-point touch

**Multi-mode**

Laptop, tent, stand and tablet modes supported by 360° hinge

## Input Device

**Pen**

- ThinkPad® Pen Pro, on-board garaged and rechargeable
- No pen (pen needs to be purchased separately)

**Keyboard**

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

**Keyboard Backlight**

- LED backlight
- Not support

**UltraNav™**

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

## Mechanical

### Dimensions (WxDxH)

311.5 x 219 x 17.6 mm (12.26 x 8.62 x 0.69 inches)

### Weight

1.44 kg (3.17 lbs)

### Case Color

- Black
- Silver

### Case Material

Aluminium (top), GFRP (bottom)

# CONNECTIVITY

## Network

### Onboard Ethernet

- Gigabit Ethernet, Intel Ethernet Connection I219-V (non-vPro models), RJ45 via optional ThinkPad Ethernet Extension Adapter Gen 2 or Lenovo USB-C to Ethernet Adapter
- Gigabit Ethernet, Intel Ethernet Connection I219-LM (vPro models), RJ45 via optional ThinkPad Ethernet Extension Adapter Gen 2 or Lenovo USB-C to Ethernet Adapter

### WLAN + Bluetooth™

- Intel Wireless-AC 9560, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

Notes:

- Intel WiFi 6 full features might be limited by country level restrictions
  BT5.1 is supported on Windows 10 version 2004 or above (limited to BT5.0 on earlier version)

### WWAN

Not Support

### SIM Card

No SIM card

### NFC

Not support

## Ports

### Standard Ports

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery and DisplayPort™ 1.2)
- 1x Thunderbolt 4 / USB4™ 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 1x HDMI 2.0
- 1x microSD card reader
- 1x Ethernet extension connector
- 1x headphone / microphone combo jack (3.5mm)
- 1x side docking connector

Notes:

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

### Optional Ports

1x Smart card reader

## Monitor Cable

- Lenovo HDMI to VGA Monitor Adapter
- Lenovo USB-C to DisplayPort Adapter
- Lenovo USB-C to HDMI 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
- No fingerprint reader

**BIOS Security**

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

**Other Security**

ThinkShutter camera cover

# MANAGEABILITY

## System Management

- Intel vPro Technology, DASH
- None

# SERVICE

## Warranty

**Base Warranty**

- 1-year depot service
- 1-year limited onsite service
- 1-year depot with 2-year system board 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

# ACCESSORIES

## Bundled Accessories

- Lenovo USB-C to USB-C Cable 2m
- Lenovo USB-C to Ethernet Adapter
- Lenovo USB-C to USB-A Adapter
- ThinkPad Ethernet Extension Adapter Gen 2
- None

# CERTIFICATIONS

## Green Certifications

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

## Other Certifications

**Mil-Spec Test**

MIL-STD-810H military test passed