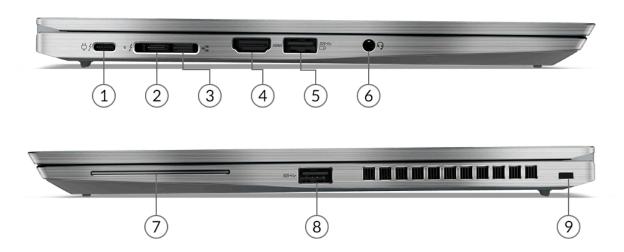


OVERVIEW



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

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)
- The combination of 1, 2 and 3 is side docking connector



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 | LPDDR4x-3733 | Intel UHD Graphics |
| Core i5-1135G7 | 4 | 8 | 2.4GHz | 4.2GHz | 8MB | LPDDR4x-4266 | Intel Iris® Xe Graphics |
| Core i5-1145G7 | 4 | 8 | 2.6GHz | 4.4GHz | 8MB | LPDDR4x-4266 | Intel Iris Xe Graphics |
| Core i7-1165G7 | 4 | 8 | 2.8GHz | 4.7GHz | 12MB | LPDDR4x-4266 | Intel Iris Xe Graphics |
| Core i7-1185G7 | 4 | 8 | 3.0GHz | 4.8GHz | 12MB | LPDDR4x-4266 | Intel Iris Xe Graphics |

Operating System

Operating System

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

Graphics

Graphics[1]

| Graphics | Туре | Memory | Key Features |
|------------------------|------------|--------|--------------|
| Intel UHD Graphics | Integrated | Shared | DirectX® 12 |
| Intel Iris Xe Graphics | Integrated | Shared | DirectX 12 |

Notes:

1. Intel Iris Xe Graphics is not available for Intel Core i3 models

Monitor Support

Monitor Support[1]

Supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via Thunderbolt^M (5K@60Hz) or HDMI 8 (up to 4K@60Hz)

Notes:

1. Refresh rates >60hz also supported, however max resolution will be limited

Chipset

Chipset

Intel SoC (System on Chip) platform

Memory

Max Memory[1]

- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type[2]

LPDDR4x-4266



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 4266MHz, but may run at 3733MHz depending on the memory support capability of processor

Storage

Storage Support

One drive, up to 2TB M.2 2280 SSD

Storage Type

| Disk Type | Interface | Security |
|--------------|------------------------------------|----------|
| M.2 2280 SSD | PCIe NVMe, PCIe x4 | Opal2 |
| M.2 2280 SSD | PCIe NVMe, PCIe 4.0 x4 Performance | Opal2 |

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, Dolby® Audio™

Microphone

- · Dual array microphone, far-field
- · No microphone

Camera

- 720p, with privacy shutter, fixed focus
- IR & 1080p, with privacy shutter, fixed focus
- No camera

Battery

Battery

- Integrated Li-Polymer 41Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter
- Integrated Li-Polymer 54.7Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

Max Battery Life[1]

MobileMark® 2018: 14.5 hr

JEITA 2.0: 24 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[1]

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

Notes:

1. No power adapter is for special bid only

DESIGN



Display

Display[1]

| Size | Resolution | Touch | Туре | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Key Features |
|-------|----------------------|-----------------|------|------------|----------------|-----------------|-------------------|----------------|------------------|------------------------------|
| 13.3" | WUXGA (1920x1200) | None | IPS | 300 nits | Anti- glare | 16:10 | 1000:1 | 72% NTSC | 170° | - |
| 13.3" | WUXGA (1920x1200) | Multi- touch | IPS | 300 nits | Anti- glare | 16:10 | 1000:1 | 72% NTSC | 170° | - |
| 13.3" | WUXGA (1920x1200) | None | IPS | 500 nits | Anti- glare | 16:10 | 1000:1 | 72% NTSC | 170° | ThinkPad® Privacy Guard |
| 13.3" | WQXGA (2560x1600) | None | IPS | 400 nits | Anti- glare | 16:10 | 1200:1 | 100% sRGB | 170° | Low power, low blue light |

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

Keyboard Backlight

- · LED backlight
- Not support

UltraNav™

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

Mechanical

Dimensions (WxDxH)

| Models | Dimensions |
|------------------------------------|--|
| Models with aluminium top cover | 305.8 x 217.89 x 18.06 mm (12.04 x 8.58 x 0.71 inches) |
| Models with carbon fiber top cover | 305.8 x 217.39 x 18.97 mm (12.04 x 8.56 x 0.75 inches) |
| Models with PPS top cover | 305.8 x 217.06 x 18.19 mm (12.04 x 8.55 x 0.72 inches) |

Weight[1]

| Models | Weight |
|---|--------------------|
| Models with WQXGA display, 41Wh battery, and black PPS top cover | 1.21 kg (2.67 lbs) |
| Models with WQXGA display, 41Wh battery, and storm grey top cover | 1.28 kg (2.82 lbs) |
| Models with WQXGA display, 54.7Wh battery, and black PPS top cover | 1.26 kg (2.78 lbs) |
| Models with WQXGA display, 54.7Wh battery, and storm grey top cover | 1.34 kg (2.94 lbs) |
| Models with WUXGA display, 41Wh battery, and black PPS top cover | 1.25 kg (2.77 lbs) |
| Models with WUXGA display, 41Wh battery, and black carbon fiber top cover | 1.19 kg (2.62 lbs) |
| Models with WUXGA display, 41Wh battery, and storm grey top cover | 1.33 kg (2.93 lbs) |
| Models with WUXGA display, 54.7Wh battery, and black PPS top cover | 1.31 kg (2.88 lbs) |
| Models with WUXGA display, 54.7Wh battery, and black carbon fiber top cover | 1.26 kg (2.77 lbs) |
| Models with WUXGA display, 54.7Wh battery, and storm grey top cover | 1.38 kg (3.04 lbs) |

Case Color

ThinkPad X13 Gen 2 (Intel)



- Storm grey
- · Villi black

Case Material

- Storm grey & WWAN models: aluminium (top), magnesium (keyboard cover), aluminium (bottom)
- Storm grey & non-WWAN models: aluminium (top), aluminium (keyboard cover & bottom)
- Villi black models: carbon fiber or PPS (top), magnesium (keyboard cover), aluminium (bottom)

Notes:

1. The system weight varies depending on configurations.

CONNECTIVITY

Network

Onboard Ethernet

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

WLAN + Bluetooth™[1]

- Intel Wi-Fi 6 AX200, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2
- Intel Wi-Fi 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2
- Intel Wi-Fi 6E AX210, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2

WWAN

- Integrated Mobile Broadband 4G LTE, Quectel EM120R-GL, M.2 card, with embedded eSIM functionality
- Qualcomm® Snapdragon™ X55 5G Modem M.2 card RF System with embedded eSIM functionality
- Wireless WAN upgradable to 4G
- Not Support

SIM Card

No SIM card

NFC

- · Near Field Communication
- Not support

Notes:

1. Intel WiFi 6 full features might be limited by country level restrictions 6GHz Wi-Fi 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi 6E, and the regional regulatory certifications & spectrum allocation Bluetooth 5.2 is supported with driver version 22.30 and later

Ports¹¹

Standard Ports[2]

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

Optional Ports

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

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, formely USB 3.0 / USB 3.1 Gen 1): 5 Gbit/s;

USB 3.2 Gen 2 (SuperSpeed USB 10Gbps, formely USB 3.1 Gen 2): 10 Gbit/s;

USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

ThinkPad X13 Gen 2 (Intel)



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® Nano Security Slot

Smart Card Reader

- · Smart card reader
- · No smart card reader

Fingerprint Reader

- Touch style fingerprint reader on power button, match-on-chip
- · No fingerprint reader

BIOS Security

- · Power-on password
- · Supervisor password
- NVMe password
- Self-healing BIOS

Other Security

- (Optional) Camera privacy shutter
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert
- (Optional) Human Presence Detection

MANAGEABILITY

System Management

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) depot service
 3-year (1-yr battery) limited onsite service



· No base warranty

ENVIRONMENTAL

Operating Environment

Temperature[1]

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

Δltitude

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)

ACCESSORIES

Bundled Accessories

Bundled Accessories

- ThinkPad Ethernet Extension Adapter Gen 2
- None

CERTIFICATIONS

Green Certifications

Green Certifications

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

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications[1]

(Optional) Intel Evo™ Platform

Notes

1. Intel Evo is NOT available for the models with i3 processor, 41Wh battery, or 128GB storage







intel





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