## OVERVIEW

### Key Features

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<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Power button</td>
</tr>
<tr>
<td>2.</td>
<td>Volume button</td>
</tr>
<tr>
<td>3.</td>
<td>Kensington Security Slot</td>
</tr>
<tr>
<td>4.</td>
<td>Headphone / microphone combo jack (3.5mm)</td>
</tr>
<tr>
<td>5.</td>
<td>Thunderbolt 4</td>
</tr>
<tr>
<td>6.</td>
<td>Nano-SIM card slot</td>
</tr>
<tr>
<td>7.</td>
<td>USB-C 3.2 Gen 2</td>
</tr>
</tbody>
</table>

### Notes:
- Pogo pin connector (8-point) not shown on the sample product above
PERFORMANCE

Processor

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

<table>
<thead>
<tr>
<th>Processor Name</th>
<th>Cores</th>
<th>Threads</th>
<th>Base Frequency</th>
<th>Max Frequency</th>
<th>Cache</th>
<th>Memory Support</th>
<th>Processor Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core i3-1110G4</td>
<td>2</td>
<td>4</td>
<td>2.5GHz</td>
<td>3.9GHz</td>
<td>6MB</td>
<td>LPDDR4x-4266</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i5-1130G7</td>
<td>4</td>
<td>8</td>
<td>1.8GHz</td>
<td>4.0GHz</td>
<td>8MB</td>
<td>LPDDR4x-4266</td>
<td>Intel Iris® Xe Graphics</td>
</tr>
<tr>
<td>Core i5-1140G7</td>
<td>4</td>
<td>8</td>
<td>1.8GHz</td>
<td>4.2GHz</td>
<td>8MB</td>
<td>LPDDR4x-4266</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i7-1160G7</td>
<td>4</td>
<td>8</td>
<td>2.1GHz</td>
<td>4.4GHz</td>
<td>12MB</td>
<td>LPDDR4x-4266</td>
<td>Intel Iris Xe Graphics</td>
</tr>
<tr>
<td>Core i7-1180G7</td>
<td>4</td>
<td>8</td>
<td>2.2GHz</td>
<td>4.6GHz</td>
<td>12MB</td>
<td>LPDDR4x-4266</td>
<td>Intel Iris Xe Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System
- Windows® 10 Pro 64
- Windows 10 Home 64
- Windows 10 IoT Enterprise LTSC
- No operating system

Monitor Support

Monitor Support
Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via USB-C (5120x3200@60Hz) or Thunderbolt™ (5120x3200@60Hz)

Memory

Memory Type
LPDDR4x-4266

Notes:
1. 8GB or 16GB LPDDR4x-4266 soldered, dual-channel capable

Storage

Storage Support
One drive, up to 1TB M.2 2242 SSD

Storage Type

<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Offering</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>128GB / 256GB / 512GB / 1TB</td>
<td>-</td>
</tr>
</tbody>
</table>

Multi-Media

Speakers
Stereo speakers, Realtek® ALC3306-GRT codec, 1W x2, Dolby® Audio™

Microphone
Dual array microphone, 360° far-field for Cortana, near-field for Alexa

Sensor

Vibration Motor
No support

Sensors
- Accelerometer (G) sensor
- Proximity (P) sensor (WWAN model)
- Gyroscope sensor
- Hall sensor
Inclinometer sensor

**Battery**

Integrated Li-Polymer 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

**Max Battery Life**

MobileMark® 2018: 10.36 hr
JEITA 2.0: 12.42 hr

**Charging Time**

To fully charged
In operation: 2.0 hr
Off ~ 80%: 0.83 hr
Off ~ 100%: 2.0 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

- 45W USB-C (2-pin) AC adapter
- 45W USB-C (3-pin) AC adapter
- 65W USB-C slim (3-pin) AC adapter
- 65W USB-C slim (2-pin) AC adapter
- 65W USB-C (2-pin) AC adapter
- 65W USB-C (3-pin) AC adapter
- No power adapter

**DESIGN**

**Display**

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch Type</th>
<th>Brightness</th>
<th>Surface</th>
<th>Aspect Ratio</th>
<th>Contrast Ratio</th>
<th>Color Gamut</th>
<th>Viewing Angle</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.3&quot;</td>
<td>FHD+ (1920x1280)</td>
<td>Multi-touch</td>
<td>400 nits</td>
<td>Anti-reflection, Anti-smudge</td>
<td>3:2</td>
<td>1500:1</td>
<td>100% sRGB</td>
<td>178°</td>
<td>Corning® Gorilla® Glass 5</td>
</tr>
</tbody>
</table>

**Touchscreen**

GF2 Direct Bonding, capacitive-type multi-touch, supports 10-point 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.cairecycle.ca.gov/Electronics/Consumer

**Input Device**

Pen

- Lenovo Digital Pen with replaceable AAAA alkaline battery, 4096 levels of pressure sensitivity
- Lenovo Digital Pen without replaceable AAAA alkaline battery, 4096 levels of pressure sensitivity
- Lenovo Precision Pen, 4096 levels of pressure sensitivity, magnetically attached to the system
- No pen (pen sold separately)

Notes:

1. Lenovo Precision Pen: might not be installed with an AAAA alkaline battery

**Mechanical**
ThinkPad X12 Detachable

Dimensions (WxDxH)

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tablet with folio keyboard</td>
<td>Tablet: 283.3 x 203.5 x 8.8 mm (11.15 x 8.01 x 0.35 inches); Folio keyboard: 283.3 x 217.8 x 5.7 mm (11.15 x 8.57 x 0.22 inches); Total: 283.3 x 217.8 x 14.5 mm (11.15 x 8.57 x 0.57 inches)</td>
</tr>
<tr>
<td>Tablet</td>
<td>Tablet: 283.3 x 203.5 x 8.8 mm (11.15 x 8.01 x 0.34 inches)</td>
</tr>
</tbody>
</table>

Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tablet with folio keyboard</td>
<td>Tablet: 760 g (1.67lbs) Folio keyboard: 340 g (0.75lbs) Total: 1,100 g (2.42 lbs)</td>
</tr>
<tr>
<td>Tablet</td>
<td>Tablet: 760 g (1.67 lbs)</td>
</tr>
</tbody>
</table>

Case Color

Black

Others

- Hinge locking: 170°
- Kensington® Security Slot

Buttons

- Volume button
- Power button

CONNECTIVITY

Network

WLAN + Bluetooth®

Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, MU-MIMO

WWAN

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

SIM Card

- Gemalto eSIM
- No SIM card inbox

NFC

- Near Field Communication
- No support

Wi-Fi Direct

Support (Miracast®)

Wi-Fi Display

Support

Location Services

<table>
<thead>
<tr>
<th>Models</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLAN model</td>
<td>No location service</td>
</tr>
<tr>
<td>WWAN model</td>
<td>GPS + GLONASS + A-GPS</td>
</tr>
</tbody>
</table>

Ports¹

Standard Ports²

- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x Thunderbolt 4 / USB4™ 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 1x Nano-SIM card slot
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Pogo pin connector (8-point)
Docking

- ThinkPad® X12 Folio Keyboard with touchpad (pogo pin, detachable), 3-level backlight
- No dock

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

- 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
- Disabled (in some regions)

Fingerprint Reader

- Touch style fingerprint reader on folio keyboard, match-on-chip
- No fingerprint reader

BIOS Security

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

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

ACCESSORIES

Bundled Accessories

Lenovo USB-C to Ethernet Adapter
Lenovo USB-C Port Replicator
None

CERTIFICATIONS

Green Certifications

- EPEAT™ Gold (tablet mode)
- EPEAT Silver (notebook mode)
- ENERGY STAR® 8.0
- ErP Lot 3
- FAA certified
- Low Halogen
- TCO Certified 8.0
- RoHS compliant

Other Certifications

Mil-Spec Test
MIL-STD-810H military test passed