OVERVIEW

1. Pen slot
2. Power button
3. MicroSD card reader
4. Nano-SIM card slot *
5. USB 3.2 Gen 1
6. HDMI 1.4b
7. Kensington Security Slot
8. USB-C 3.2 Gen 1
9. USB-C 3.2 Gen 2 / Thunderbolt 3
10. Ethernet extension connector
11. USB 3.2 Gen 1 (Always On)
12. Headphone / microphone combo jack (3.5mm)
13. Smart card reader *

Notes:
- Ports with * are only available on selected models
- The combination of 9 and 10 is side docking connector
PERFORMANCE

Processor
Processor Family
10th Generation Intel® Core™ 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 i5-10210U</td>
<td>4</td>
<td>8</td>
<td>1.6GHz</td>
<td>4.2GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i5-10310U</td>
<td>4</td>
<td>8</td>
<td>1.7GHz</td>
<td>4.4GHz</td>
<td>6MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10510U</td>
<td>4</td>
<td>8</td>
<td>1.8GHz</td>
<td>4.9GHz</td>
<td>8MB</td>
<td>DDR4-2666</td>
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<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10710U</td>
<td>6</td>
<td>12</td>
<td>1.1GHz</td>
<td>4.7GHz</td>
<td>12MB</td>
<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
<tr>
<td>Core i7-10810U</td>
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<td>DDR4-2666</td>
<td>Intel UHD Graphics</td>
</tr>
</tbody>
</table>

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

Graphics
Graphics

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Type</th>
<th>Memory</th>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel UHD Graphics</td>
<td>Integrated</td>
<td>Shared</td>
<td>DirectX® 12</td>
</tr>
</tbody>
</table>

Monitor Support
Monitor Support
Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via HDMI® (up to 4096x2160@24Hz), USB-C (up to 4096x2304@60Hz) or Thunderbolt™ (up to 4096x2304@60Hz)

Chipset
Chipset
Intel SoC (System on Chip) platform

Memory
Max Memory
- 8GB soldered memory, not upgradable
- 16GB soldered memory, not upgradable

Memory Slots
Memory soldered to system board, no slots, dual-channel

Memory Type
DDR4-2666

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 2666MHz due to processor limitation

Storage
Storage Support
One drive, up to 512GB M.2 2242 SSD or 2TB M.2 2280 SSD, optional Intel Optane™ Memory integrated with SSD, M.2
ThinkPad X13 Yoga Gen 1

### Storage Type

<table>
<thead>
<tr>
<th>Storage Type</th>
<th>Disk Type</th>
<th>Interface</th>
<th>RPM</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.2 2242 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x2</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>M.2 2280 SSD</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>Opal2</td>
<td></td>
</tr>
<tr>
<td>Intel Optane Memory with Solid State Storage, M.2 2280</td>
<td>PCIe NVMe, PCIe 3.0 x4</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

#### Removable Storage

- **Optical**: None
- **Card Reader**: MicroSD 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
- **Camera**
  - 720p, with ThinkShutter, fixed focus
  - IR & 720p hybrid, with ThinkShutter, fixed focus

#### Sensor

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

#### Battery

- **Battery**
  - Integrated Li-Polymer 50Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter

- **Max Battery Life**
  - MobileMark® 2014: 18.2 hr
  - MobileMark 2018: 12.05 hr
  - JEITA 2.0: 16.2 hr

**Notes:**

1. All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, JEITA 2.0, continuous 1080p video playback (with 150nits brightness and default volume level) or Google Power Load Test (PLT) 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

**DESIGN**
### Display

**Key Features**
- 13.3” FHD (1920x1080)
  - Multi-touch
  - IPS
  - 300 nits
  - Anti-reflection, Anti-smudge
  - 16:9
  - 800:1
  - 72% NTSC
  - 170°
  - -

- 13.3” FHD (1920x1080)
  - Multi-touch
  - IPS
  - 400 nits
  - Anti-reflection, Anti-smudge
  - 16:9
  - 1500:1
  - 72% NTSC
  - 170°
  - Low power

- 13.3” FHD (1920x1080)
  - Multi-touch
  - IPS
  - 500 nits
  - Anti-reflection, Anti-smudge
  - 16:9
  - 1000:1
  - 72% NTSC
  - 170°
  - ThinkPad® Privacy Guard

- 13.3” UHD (3840x2160)
  - Multi-touch
  - OLED
  - 400 nits
  - Anti-reflection, Anti-smudge
  - 16:9
  - 100000:1
  - 100% DCI-P3
  - 170°

**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

### Touchscreen

Capacitive-type multi-touch, supports 10-point touch, could reduce the brightness by up to 10%

### 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 sold separately)

**Keyboard**

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

#### Keyboard Backlight

LED backlight

#### UltraNav™

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

### Mechanical

#### Dimensions (WxDxH)

<table>
<thead>
<tr>
<th>Models</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>310.4 x 219 x 15.95 mm (12.22 x 8.62 x 0.63 inches)</td>
</tr>
</tbody>
</table>

#### Weight

<table>
<thead>
<tr>
<th>Models</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>All models</td>
<td>1.25 kg (2.76 lbs)</td>
</tr>
</tbody>
</table>

**Case Color**

Black

**Case Material**

Carbon fiber hybrid (top), carbon fiber hybrid (bottom)

### Connectivitiy

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

WLAN + Bluetooth® [1]
- Intel Wi-Fi® 6 AX201, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2

WWAN [2]
- Integrated Mobile Broadband 4G LTE-A, CAT9, Fibocom L850-GL, M.2 card
- Integrated Mobile Broadband 4G LTE-A, Fibocom L860-GL, MIMO 2x2, M.2 card
- No support

SIM Card
- Gemalto eSIM
- No SIM card inbox

NFC
- Near Field Communication
- No support

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

Ports [1]

Standard Ports
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery and DisplayPort™ 1.2)
- 1x USB-C 3.2 Gen 2 / Thunderbolt 3 (support data transfer, Power Delivery and DisplayPort 1.2)
- 1x HDMI 1.4b
- 1x microSD card reader
- 1x Ethernet extension connector
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Side docking 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

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
- ThinkShutter camera cover
- (Optional) IR camera for Windows Hello
- (Optional) Privacy Guard with Privacy Alert

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
- Operating: 5°C (41°F) to 35°C (95°F)
- 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)

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:
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-810G military test passed