OVERVIEW

1. HDMI
2. Thunderbolt 4
3. Thunderbolt 4
4. E-camera shutter switch
5. Headphone / microphone combo jack (3.5mm)
6. USB 3.2 Gen 1 (Always On)
7. Power button
PERFORMANCE

Processor

Processor Family
12th Generation Intel® Core™ 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 i7-12700H</td>
<td>14 (6 P-core + 8 E-core)</td>
<td>20</td>
<td>P-core 2.3GHz / E-core 1.7GHz</td>
<td>P-core 4.7GHz / E-core 3.5GHz</td>
<td>24MB</td>
<td>LPDDR5-5200</td>
<td>Intel Iris® Xe Graphics</td>
</tr>
</tbody>
</table>

Operating System

Operating System**
- Windows® 11 Pro 64
- Windows 11 Home 64
- 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>NVIDIA® GeForce RTX™ 3050 Laptop GPU</td>
<td>Discrete</td>
<td>4GB GDDR6</td>
<td>Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, NVIDIA DLSS, DirectX® 12 Ultimate</td>
</tr>
</tbody>
</table>

Monitor Support

Monitor Support
Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and Thunderbolt™)
- HDMI supports up to 4096x2160@60Hz
- Thunderbolt supports up to 7680x4230@60Hz

Chipset

Chipset
Intel SoC (System on Chip) platform

Memory

Max Memory**(1)
- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

Memory Slots
Memory soldered to systemboard, no slots, dual-channel

Memory Type**(2)
LPDDR5-6000

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 6000MHz but runs at 5200MHz due to processor limitation

Storage

Storage Support**(3)
One drive, up to 512GB M.2 2242 SSD or 1TB M.2 2280 SSD

Storage Slot
One M.2 2280 PCIe® Gen 4x4 slot, supports M.2 2242/2280 SSD

Storage Type**(4)
<table>
<thead>
<tr>
<th>Disk Type</th>
<th>Interface</th>
<th>Offering</th>
</tr>
</thead>
</table>
M.2 2242 SSD PCIe NVMe®, PCIe 4.0 x4 512GB

M.2 2280 SSD PCIe NVMe, PCIe 4.0 x4 512GB / 1TB

Notes:
1. The storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.

Removable Storage
Card Reader
No card reader

Multi-Media
Audio Chip
High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers
Stereo speakers, 2W x2, optimized with Dolby® Atmos®, audio by Harman

Microphone
Dual array microphone with noise-cancelling, support Lenovo Voice Assistant (LVA), and Amazon Alexa

Camera
IR & FHD 1080p hybrid, with E-privacy shutter, fixed focus, with ToF sensor

Notes:
1. Amazon Alexa might be limited by country-level restrictions.

Sensor
Sensors
• Ambient color sensor
• Hall sensor
• ToF sensor

Battery
Battery
Integrated Li-Polymer 70Wh battery, supports Rapid Charge Express (get 3 hours of runtime with a 15-minute charge)

Max Battery Life
Local video (1080p) playback@150nits: up to 12.9 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
100W USB-C® slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:
1. AC adapter offerings depend on the country.

DESIGN
Display

<table>
<thead>
<tr>
<th>Size</th>
<th>Resolution</th>
<th>Touch</th>
<th>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>
</table>

Lenovo Slim 7 ProX 14IAH7 - May 07 2022
Color Calibration
T-CON (Timer Control Register) color calibration

Touchscreen
OGM (On-glass Metal mesh) 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.calrecycle.ca.gov/Electronics/Consumer
2. 120Hz adaptive refresh rate

Input Device
Keyboard
6-row, multimedia Fn keys
Keyboard Backlight
LED backlight
Touchpad
Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)

Mechanical
Dimensions (Wx Dx H)
328.2 x 221.4 x 15.9 mm (12.92 x 8.72 x 0.63 inches)
Weight
Starting at 1.45 kg (3.20 lbs)
Case Color
Ultimate grey (top), cloud grey (keyboard cover, bottom), dual-tone design
Surface Treatment
Aluminium CNC (top), Aluminium stamping (bottom)
Case Material
Aluminium (top), aluminium (bottom)

Notes:
1. The system dimensions and weight vary depending on configurations.

CONNECTIVITY

Network
Onboard Ethernet
No Ethernet
WLAN + Bluetooth®
Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card

Notes:
1. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitation
2. Wi-Fi 6E 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.
Standard Ports

- 1x USB 3.2 Gen 1 (Always On)
- 1x HDMI 2.0
- 1x Headphone / microphone combo jack (3.5mm)
- 2x Thunderbolt 4 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4)

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 3/4: 40 Gbit/s

SECURITY & PRIVACY

Security

Security Chip
Firmware TPM 2.0 integrated in SoC

Fingerprint Reader
No fingerprint reader

BIOS Security
- Administrator password
- User password
- Master hard disk password
- User hard disk password
- Self-healing BIOS

Other Security
- E-Camera shutter
- IR camera for Windows Hello

SERVICE

Warranty

Base Warranty**[1]
- 1-year depot service
- 1-year depot with 2-year system board service (Korea only)
- 2-year (1-yr battery) depot service
- 3-year (1-yr battery) depot service

Notes:
1. More information of warranty policy, please access https://pcsupport.lenovo.com/warranty

ENVIRONMENTAL

Operating Environment

Temperature
- At altitudes up to 2438 m (8,000 ft)
  - Operating: 5°C to 35°C (41°F to 95°F)
  - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8,000 ft)
  - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°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)

CERTIFICATIONS

Green Certifications
Green Certifications
• EPEAT™ Silver
• ENERGY STAR® 8.0
• ErP Lot 6
• RoHS compliant

Other Certifications
Other Certifications
• (Optional) Intel Evo™ Platform
• TÜV Rheinland® Eyesafe Display
• TÜV Rheinland Low Blue Light (Hardware Solution)

• Feature with ** means that only one offering listed under the feature is configured on selected models.

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