

OVERVIEW



| | |
|--|------------------------------|
| 1. Headphone / microphone combo jack (3.5mm) | 5. USB 3.2 Gen 2 |
| 2. Card reader | 6. USB 3.2 Gen 2 (Always On) |
| 3. 2x USB-C 3.2 Gen 2 | 7. Power connector |
| 4. Kensington Nano Security Slot | |

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 / 9 Processor

Processor

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|--------------------|-------|---------|----------------|---------------|------------------|----------------|----------------------|
| AMD Ryzen 5 5600H | 6 | 12 | 3.3GHz | 4.2GHz | 3MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon™ Graphics |
| AMD Ryzen 7 5800H | 8 | 16 | 3.2GHz | 4.4GHz | 4MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon Graphics |
| AMD Ryzen 9 5900HX | 8 | 16 | 3.3GHz | 4.6GHz | 4MB L2 / 16MB L3 | DDR4-3200 | AMD Radeon Graphics |

Operating System

Operating System

- Windows® 10 Pro 64
- Windows 10 Home 64
- Windows 11 Pro 64
- Windows 11 Home 64
- No operating system

Graphics

Graphics^[1]

| Graphics | Type | Memory | Boost Clock | TGP | Key Features |
|---------------------------------------|----------|-----------|-------------|-----|---|
| NVIDIA® GeForce® RTX™ 3060 Laptop GPU | Discrete | 6GB GDDR6 | 1282 MHz | 75W | Dynamic Boost 2.0, Resizable BAR, VR ready, DirectX® 12 |

Notes:

1. Total graphics power is up to 75W with Dynamic Boost 2.0

Monitor Support

Monitor Support

Supports up to 3 independent displays via native display and 2 external monitors; supports external monitors via USB-C (up to 5K@60Hz)

Memory

Max Memory^[1]

- Up to 24GB (8GB soldered + 16GB SO-DIMM) DDR4-3200 offering
- Up to 32GB (16GB soldered + 16GB SO-DIMM) DDR4-3200 offering

Memory Slots

One memory soldered to systemboard, one DDR4 SO-DIMM slot, dual-channel capable

Memory Type

DDR4-3200

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.

Storage

Storage Support

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 1TB

Storage Type

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

Multi-Media**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, HARMAN-branded

Microphone

Dual array microphone with AI-based noise cancellation, switchable audio modes

Camera

- 720p, with privacy shutter, fixed focus
- 1080p, with privacy shutter, fixed focus
- IR & 720p hybrid, with privacy shutter, fixed focus

Sensor**Sensors**

Ambient light sensor (ALS)

Battery**Battery**

Integrated Li-Polymer 71Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)

Max Battery Life^[1]

MobileMark® 2018: 6.9 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**

230W slim tip (3-pin) AC adapter

DESIGN**Display****Display^[1]**

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Key Features |
|-------|-------------------|-------|------|------------|------------|--------------|----------------|-------------|---------------|---|
| 16.0" | WQXGA (2560x1600) | None | IPS | 400 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 170° | Auto Display Brightness, Dolby® Vision™ |

Color Calibration

X-Rite® Pantone® factory color calibration

Touchscreen

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, numeric keypad

Keyboard Backlight

Auto LED backlit

Touchpad

Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP)

Mechanical

Dimensions (WxDxH)

| Models | Dimensions |
|------------|--|
| All models | 356 x 252 x 16.3-19.9 mm (14.02 x 9.92 x 0.64-0.78 inches) |

Weight^[1]

| Models | Weight |
|------------|--------------------------------|
| All models | Starting at 1.99 kg (4.39 lbs) |

Case Color

Mineral grey, dual-tone design

Surface Treatment

Anodizing sandblasting

Notes:

1. The system weight varies depending on configurations

CONNECTIVITY

Network

WLAN + Bluetooth^[1]

Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.2, M.2 card

Notes:

1. WiFi 6 full features might be limited by country level restrictions

Ports^[1]

Standard Ports

- 1x USB 3.2 Gen 2
- 1x USB 3.2 Gen 2 (Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x Card reader
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector

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

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in chipset

Physical Locks

Kensington® Nano Security Slot

Fingerprint Reader

Touch style fingerprint reader on smart power button

BIOS Security

- Supervisor password
- Power-on password
- Hard disk password

Other Security

- Camera privacy shutter
- (Optional) IR camera for Windows Hello

SERVICE

Warranty

Base Warranty

- 1-year depot service
- 2-year (1-yr battery) depot service

ENVIRONMENTAL

Operating Environment

Temperature^[1]

- 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: 5% to 95% at wet-bulb temperature 27°C (81°F)

Altitude

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)

CERTIFICATIONS

Green Certifications

Green Certifications

- ENERGY STAR® 8.0
- ErP Lot 3
- FSC certified carton
- RoHS compliant

Other Certifications

Mil-Spec Test

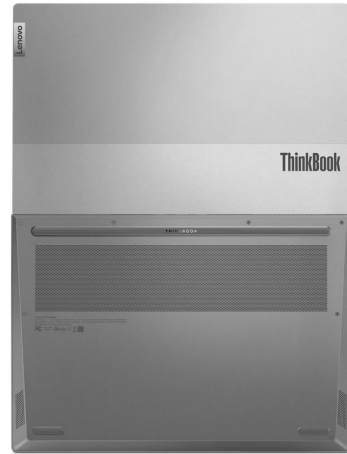
MIL-STD-810H military test passed

Other Certifications

TÜV Rheinland® Eyesafe® Display



AMD



AMD



AMD



AMD



AMD



AMD