

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

### Graphics

#### Graphics<sup>[1]</sup>

| 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 (native display and 2 external monitors via USB-C)

- USB-C supports up to 5K@60Hz

### Chipset

#### Chipset

AMD SoC (System on Chip) platform

### Memory

#### Max Memory<sup>[1]</sup>

- 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 | -   | -        | -        |

## Removable Storage

### Optical

None

### Card Reader

4-in-1 card reader (SD, SDHC, SDXC, MMC)

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

### Speakers

Stereo speakers, 2W x2, Harman Speakers

### Microphone

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

### Camera\*\*

- 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<sup>[1]</sup>

MobileMark® 2018: 6.9 hr

### Notes:

- 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, 100-240V, 50-60Hz

## DESIGN

## Display

### Display<sup>[1]</sup>

| Size  | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle | Key Features |
|-------|------------|-------|------|------------|---------|--------------|----------------|-------------|---------------|--------------|
| 16.0" | WQXGA      | None  | IPS  | 400 nits   | Anti-   | 16:10        | 1200:1         | 100%        | 170°          | Auto Display |

|             |  |  |  |       |  |  |      |  |                               |
|-------------|--|--|--|-------|--|--|------|--|-------------------------------|
| (2560x1600) |  |  |  | glare |  |  | sRGB |  | Brightness, Dolby®<br>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<sup>[1]</sup>

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

### Case Color

Mineral grey, dual-tone design

### Surface Treatment

Anodizing sandblasting

### Case Material

Aluminium (top), aluminium (bottom)

### Notes:

1. The system weight varies depending on configurations.

## CONNECTIVITY

### Network

#### Onboard Ethernet

No Ethernet

#### WLAN + Bluetooth<sup>[1]</sup>

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

### Notes:

1. Wi-Fi 6 full features might be limited by country level restrictions.

### Ports<sup>[1]</sup>

#### 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

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**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

## Docking

### Docking

Various docking solutions supported via USB-C.

For more compatible docking solutions, please visit [Docking for ThinkBook 16p G2 ACH](#)

## 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

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

#### Other Security

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

## SERVICE

### Warranty

#### Base Warranty\*\*<sup>[1]</sup>

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

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**Notes:**

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

## ENVIRONMENTAL

### Operating Environment

#### Temperature<sup>[1]</sup>

- 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

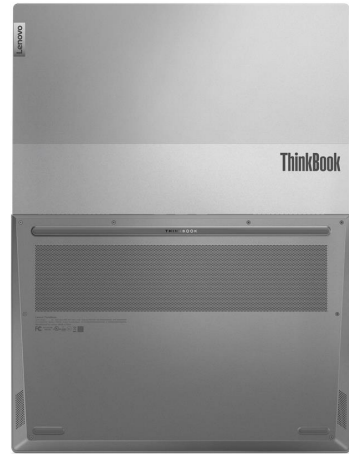
**Other Certifications**

TÜV Rheinland® Eyesafe® Display

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