

OVERVIEW



|                                     |  |
|-------------------------------------|--|
| 1. USB 3.2 Gen 1                    | 6. HDMI 2.1                                  |
| 2. E-camera shutter switch          | 7. Power connector                           |
| 3. Ethernet (RJ-45)                 | 8. Thunderbolt 4                             |
| 4. Thunderbolt 4                    | 9. Headphone / microphone combo jack (3.5mm) |
| 5. 3x USB 3.2 Gen 1 (one Always On) |  |

PERFORMANCE

Processor

Processor Family

11th Generation Intel® Core™ i5 / i7 Processor

Processor\*\*

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Memory Support | Processor Graphics |
|----------------|-------|---------|----------------|---------------|-------|----------------|--------------------|
| Core i5-11260H | 6     | 12      | 2.6GHz         | 4.4GHz        | 12MB  | DDR4-3200      | Intel UHD Graphics |
| Core i5-11400H | 6     | 12      | 2.7GHz         | 4.5GHz        | 12MB  | DDR4-3200      | Intel UHD Graphics |
| Core i7-11600H | 6     | 12      | 2.9GHz         | 4.6GHz        | 18MB  | DDR4-3200      | Intel UHD Graphics |
| Core i7-11800H | 8     | 16      | 2.3GHz         | 4.6GHz        | 24MB  | DDR4-3200      | Intel UHD 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\*\*

| Graphics                              | Type     | Memory    | Boost Clock         | TGP | Key Features   |
|---------------------------------------|----------|-----------|---------------------|-----|--|
| NVIDIA® GeForce® GTX 1650             | Discrete | 4GB GDDR6 | -                   | -   | DirectX® 12  |
| NVIDIA GeForce RTX™ 3050 Laptop GPU   | Discrete | 4GB GDDR6 | 1500 MHz / 1740 MHz | 95W | Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, DirectX 12 |
| NVIDIA GeForce RTX 3050 Ti Laptop GPU | Discrete | 4GB GDDR6 | 1485 MHz / 1695 MHz | 95W | Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, DirectX 12 |

Monitor Support

Monitor Support

- 3050 / 3050Ti model: supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via HDMI® (up to 7680x4320@60Hz) or USB-C (up to 5120x3200@60Hz)
- 1650 model: supports up to 4 independent displays via native display and 3 external monitors; supports external monitors via HDMI (up to 3840x2160@60Hz) or USB-C (up to 5120x3200@60Hz)

Chipset

Chipset

Intel HM570 chipset

Memory

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

Up to 32GB DDR4-3200 offering

Memory Slots

Two DDR4 SO-DIMM slots, 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 2242 SSD up to 512GB
  - M.2 2280 SSD up to 1TB

Storage Slot

- Two M.2 slots
- One M.2 2280 PCIe Gen 3x4 slot, supports M.2 2242/2280 SSD
  - One M.2 2280 PCIe Gen 4x4 slot, supports M.2 2242/2280 SSD

Storage Type\*\*

| Disk Type    | Interface              | RPM | Offering | Security |
|--------------|------------------------|-----|----------|----------|
| M.2 2242 SSD | PCIe NVMe, PCIe 3.0 x4 | -   | -        | -        |
| M.2 2280 SSD | PCIe NVMe, PCIe 3.0 x4 | -   | -        | -        |
| M.2 2280 SSD | PCIe NVMe, PCIe 4.0 x4 | -   | -        | -        |

Removable Storage

Optical

None

Card Reader

No card reader

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, Nahimic Audio

Microphone

Dual array microphone

Camera

720p, with E-camera shutter, fixed focus

Battery

Battery\*\*

- Integrated Li-Polymer 60Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)
- Integrated Li-Polymer 80Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min)

Max Battery Life<sup>[1]</sup>

MobileMark® 2018: 8.9 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\*\*<sup>[1]</sup>

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect | Contrast | Color | Viewing | Key Features |
|------|------------|-------|------|------------|---------|--------|----------|-------|---------|--------------|
|------|------------|-------|------|------------|---------|--------|----------|-------|---------|--------------|

|       |                  |      |     |          |            | Ratio | Ratio  | Gamut     | Angle |  |
|-------|------------------|------|-----|----------|------------|-------|--------|-----------|-------|--|
| 15.6" | FHD (1920x1080)  | None | IPS | 250 nits | Anti-glare | 16:9  | 800:1  | 45% NTSC  | 170°  | Refresh rate 120Hz, DC dimmer                        |
| 15.6" | FHD (1920x1080)  | None | IPS | 300 nits | Anti-glare | 16:9  | 1000:1 | 100% sRGB | 170°  | Refresh rate 165Hz, Dolby® Vison, G-Sync, DC dimmer  |
| 15.6" | FHD (1920x1080)  | None | IPS | 300 nits | Anti-glare | 16:9  | 1200:1 | 100% sRGB | 170°  | Refresh rate 60Hz, DC dimmer                         |
| 15.6" | WQHD (2560x1440) | None | IPS | 300 nits | Anti-glare | 16:9  | 1000:1 | 100% sRGB | 178°  | Refresh rate 165Hz, Dolby Vision™, G-Sync, DC dimmer |

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\*\*

- Phantom blue model: 6-row, multimedia Fn keys, numeric keypad, black keycap
- Stingray model: 6-row, multimedia Fn keys, numeric keypad, moon white keycap

Keyboard Backlight\*\*

- Blue backlight
- White backlight
- 4-Zone RGB backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad

Mechanical

Dimensions (WxDxH)

| Models     | Dimensions   |
|------------|--|
| All models | 362.56 x 260.61 x 22.5-25.75 mm (14.27 x 10.26 x 0.89-1.01 inches) |

Weight<sup>[1]</sup>

| Models     | Weight           |
|------------|------------------|
| All models | 2.4 kg (5.3 lbs) |

Case Color\*\*

- Phantom blue (top), shadow black (bottom)
- Stingray (top), dove grey (bottom)

Surface Treatment

Painting

Case Material

PC + ABS (top), PC + ABS (bottom)

System Lighting

No system lighting

Notes:

1. The system weight varies depending on configurations

CONNECTIVITY

## Network

### Onboard Ethernet

Gigabit Ethernet, Realtek RTL8111H

### WLAN + Bluetooth®

Wi-Fi® 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 Card

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

### Standard Ports

- 3x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x Thunderbolt™ 4 / USB4™ 40Gbps (support data transfer and DisplayPort™ 1.4)
- 1x Thunderbolt 4 / USB4 40Gbps (support data transfer, Power Delivery and DisplayPort 1.4)
- 1x HDMI 2.1
- 1x Ethernet (RJ-45)
- 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

#### Fingerprint Reader

No fingerprint reader

#### BIOS Security

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

#### Other Security

E-Camera shutter

## SERVICE

### Warranty

#### Base Warranty\*\*

- 1-year depot service
- 1-year depot with 2-year system board service
- 2-year (1-yr battery) depot service

## 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)

## ACCESSORIES

### Bundled Accessories

**Bundled Accessories**

- Lenovo Legion™ M300 RGB Gaming Mouse (USB connector)
- None

## CERTIFICATIONS

### Green Certifications

**Green Certifications**

- ErP Lot 3
- RoHS compliant

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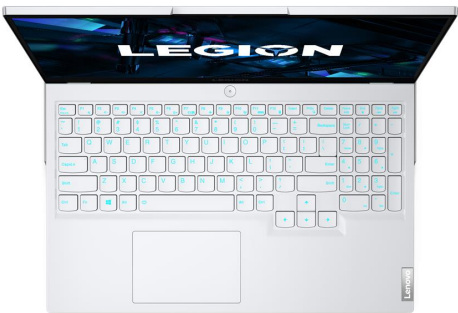
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