

## OVERVIEW



|                                     |  |
|-------------------------------------|--|
| 1. Card reader                      | 6. HDMI 2.1                                  |
| 2. USB 3.2 Gen 1                    | 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 i5-11400H | 6     | 12      | 2.7GHz         | 4.5GHz        | 12MB  | DDR4-3200      | Intel UHD Graphics |
| Core i7-11800H | 8     | 16      | 2.3GHz         | 4.6GHz        | 24MB  | DDR4-3200      | Intel UHD Graphics |

### Operating System

#### Operating System\*\*<sup>[1]</sup>

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

#### Notes:

1. Some features may not be supported on the system with Linux preload, including but not limited to Intel RST RAID, MIPI computer vision camera, WWAN, Human Presence Detection, etc.

### Graphics

#### Graphics\*\*

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

### Monitor Support

#### Monitor Support

Supports up to 4 independent displays (native display and 3 external monitors via HDMI® and USB-C®)

- HDMI supports up to 7680x4320@60Hz
- USB-C supports up to 5120x3200@60Hz

### Chipset

#### Chipset

Intel HM570 chipset

### Memory

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

Up to 16GB 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<sup>[1]</sup>

Up to two drives, 1x 2.5" HDD + 1x M.2 SSD

- 2.5" HDD up to 1TB
- M.2 2242 SSD up to 512GB
- M.2 2280 SSD up to 1TB

## Storage Slot

- HDD/SSD mode: one 2.5" drive slot + one M.2 slot
  - One 2.5" SATA HDD slot
  - One M.2 2280 PCIe® 3.0 x4 slot
- Dual SSD mode: two M.2 slots
  - Two M.2 2280 PCIe 3.0 x4 slot

## Storage Type<sup>\*\*\*</sup>

| Disk Type     | Interface               | RPM  | Offering      | Security |
|---------------|-------------------------|------|---------------|----------|
| 2.5" SATA HDD | SATA 6Gb/s              | 5.4K | 1TB           | -        |
| M.2 2242 SSD  | PCIe NVMe®, PCIe 3.0 x4 | -    | 256GB / 512GB | -        |
| M.2 2280 SSD  | PCIe NVMe, PCIe 3.0 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

### Optical

None

### Card Reader

2-in-1 card reader (SD, MMC)

## Multi-Media

### Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

### Speakers

Stereo speakers, 2W x2, Nahimic Audio

### Microphone

Dual-microphone array

### Camera

HD 720p, with camera shutter, fixed focus

## Battery

### Battery

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

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

MobileMark® 2018: 7.5 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, 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                                  |
|-------|-----------------|-------|------|------------|------------|--------------|----------------|-------------|---------------|---|
| 17.3" | FHD (1920x1080) | None  | IPS  | 300 nits   | Anti-glare | 16:9         | 800:1          | 72% NTSC    | 170°          | Refresh rate 60Hz, DC dimmer                  |
| 17.3" | FHD (1920x1080) | None  | IPS  | 300 nits   | Anti-glare | 16:9         | 800:1          | 72% NTSC    | 170°          | Refresh rate 144Hz, Dolby® Vision™, 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

6-row, multimedia Fn keys, numeric keypad

### Keyboard Backlight

White backlight

### Touchpad

Buttonless Mylar® surface multi-touch touchpad, 69 x 104 mm (2.72 x 4.09 inches)

## Mechanical

### Dimensions (WxDxH)<sup>[1]</sup>

398.6 x 290 x 24.3-26.2 mm (15.7 x 11.41 x 0.96-1.03 inches)

### Weight<sup>[2]</sup>

Around 2.98 kg (6.57 lbs)

### Case Color

Phantom blue (top), shadow black (bottom)

### Surface Treatment

Painting

### Case Material

PC-ABS (top), PC-ABS (bottom)

### System Lighting

No system lighting

#### Notes:

1. The system dimensions vary depending on configurations.

2. The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

## CONNECTIVITY

### Network

#### Ethernet

Gigabit Ethernet, 1x RJ-45

#### WLAN + Bluetooth<sup>®</sup><sup>[1][2]</sup>

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

## 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 Card reader
- 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 3/4: 40 Gbit/s

## SECURITY & PRIVACY

### Security

#### Security Chip

Firmware TPM 2.0 integrated in SoC

#### Fingerprint Reader

No fingerprint reader

#### BIOS Security

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

#### Other Security

Camera privacy shutter

## SERVICE

### Warranty

#### Base Warranty\*\*

- 1-year courier or carry-in service
- 1-year courier or carry-in with 2-year system board service (Korea only)
- 2-year (1-yr battery) courier or carry-in service
- 3-year (1-yr battery) courier or carry-in 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

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.
- Feature with \*\*\* means that one or more offerings listed under the feature could be configured on selected models.
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