

OVERVIEW

| | |
|------------------------------|--|
| 1. Card reader | 5. USB-C 2.0 (data transfer / PD only) * |
| 2. USB 3.2 Gen 1 | 6. HDMI |
| 3. USB 3.2 Gen 1 (Always On) | 7. USB-C 3.2 Gen 2 |
| 4. Power connector * | 8. Headphone / microphone combo jack (3.5mm) |

Notes:

- Items with * are only available on selected models
- Port 5 (not shown on the sample product above) is mutually exclusive with Port 4

PERFORMANCE

Processor

Processor Family

AMD Ryzen™ 5 / 7 Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Processor Graphics |
|------------------------------------|-------|---------|----------------|---------------|------------------|---------------------------|
| AMD Ryzen 5 6600HS Creator Edition | 6 | 12 | 3.3GHz | 4.5GHz | 3MB L2 / 16MB L3 | AMD Radeon™ 660M Graphics |
| AMD Ryzen 7 6800HS Creator Edition | 8 | 16 | 3.2GHz | 4.7GHz | 4MB L2 / 16MB L3 | AMD Radeon 680M Graphics |

Operating System

Operating System**

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

Graphics

Graphics**

| Graphics | Type | Memory | Key Features |
|--|------------|-----------|--|
| AMD Radeon 660M | Integrated | Shared | DirectX® 12 |
| AMD Radeon 680M | Integrated | Shared | DirectX 12 |
| NVIDIA® GeForce GTX 1650 Laptop GPU ^[1] | Discrete | 4GB GDDR6 | Advanced Optimus, Dynamic Boost 2.0, DirectX 12 |
| NVIDIA GeForce RTX™ 3050 Laptop GPU ^[2] | Discrete | 4GB GDDR6 | Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, NVIDIA DLSS, DirectX 12 Ultimate |
| NVIDIA GeForce RTX 3050 Ti Laptop GPU ^[3] | Discrete | 4GB GDDR6 | Advanced Optimus, Resizable BAR, Dynamic Boost 2.0, NVIDIA DLSS, DirectX 12 Ultimate |

Notes:

[1], [2], [3] For Dynamic Boost 2.0, this function is only supported under NVIDIA GeForce Laptop GPU and 120Hz display panels.

Monitor Support

Monitor Support

Supports up to 3 independent displays (native display and 2 external monitors via HDMI® and USB-C®)

- HDMI supports up to 4096x2160@30Hz
- USB-C supports up to 5120x3200@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory

16GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5-6400

Storage

Storage Support^[1]

One drive, up to 512GB M.2 2242 SSD or 1TB M.2 2280 SSD

Storage Slot

One M.2 2280 PCIe® 4.0 x4 slot

Storage Type**

| Disk Type | Interface | Offering |
|--------------|-------------------------|-------------|
| 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

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

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

Stereo speakers, 2W x2, optimized with Dolby® Atmos®

Microphone

Dual-microphone array with noise-cancelling

Camera

FHD 1080p + IR, fixed focus, with ToF sensor

Sensor

Sensors

- Hall sensor
- ToF sensor

Battery

Battery

Integrated Li-Polymer 75Wh battery, supports Rapid Charge Express (get 3 hours of runtime with a 15-minute charge)^[1]

Max Battery Life^[2]

- Discrete graphics models:
MobileMark® 2018@200nits: 9.45 hr
Local video (1080p) playback@150nits: 13.57 hr
- Integrated graphics models:
MobileMark 2018@200nits: 14.61 hr
Local video (1080p) playback@150nits: 22.97 hr

Notes:

[1] Rapid Charge Express is only effective in hibernates or fully shutting down the computer.

[2] All battery life claims are approximate maximum and based on results using the MobileMark 2014, MobileMark 2018, MobileMark 25, 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 depending 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**^[1]

IdeaPad 5 Pro 16ARH7

- 100W USB-C slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 135W slim tip (3-pin) AC adapter, 100-240V, 50-60Hz

Notes:

[1] AC adapter offerings depend on the country.

DESIGN

Display

Display**[1]

| Size | Resolution | Touch | Type | Brightness | Surface | Aspect Ratio | Contrast Ratio | Color Gamut | Viewing Angle (L/R/U/D) | Key Features |
|------------|---------------------|-------|------|------------|------------|--------------|----------------|-------------|-------------------------|--|
| 16" [2] | 2.5K (2560x1600) | None | IPS | 350 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 80°/80°/80°/80° | Refresh rate 120Hz (Max), G-Sync, TÜV Low Blue Light, TCON |
| 16" [3] | 2.5K (2560x1600) | None | IPS | 350 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 85°/85°/85°/85° | Refresh rate 120Hz (Max), TÜV Low Blue Light, TCON |
| 16" [4] | 2.5K (2560x1600) | None | IPS | 350 nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 85°/85°/85°/85° | TÜV Low Blue Light |

Color Calibration

- TCON (Timing Controller) color calibration
- No color calibration

Touchscreen

Non-touch

Notes:

[1] California Electronic Waste Recycling Fee

In California USA, 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, please go to <https://www.calrecycle.ca.gov/Electronics/Consumer>.

[2], [3], [4] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

Input Device

Keyboard

6-row, multimedia Fn keys, numeric keypad

Keyboard Backlight

LED backlight

Touchpad

Buttonless Mylar® surface multi-touch touchpad, supports Precision TouchPad (PTP), 75 x 120 mm (2.95 x 4.72 inches)

Mechanical

Dimensions (WxDxH)[1]

356 x 251 x 16.9 mm (14.02 x 9.88 x 0.67 inches)

Weight[2]

| Models | Weight |
|----------------------------|--------------------------------|
| Discrete graphics models | Starting at 1.95 kg (4.30 lbs) |
| Integrated graphics models | Starting at 1.92 kg (4.23 lbs) |

Case Color**

- Cloud grey
- Storm grey

Surface Treatment

Aluminium stamping (anodized)

Case Material

Aluminium (top), aluminium (bottom)

Notes:

[1] The system dimensions may 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

No onboard Ethernet

WLAN + Bluetooth[®]**^{[1][2]}

- 802.11ac 2x2 Wi-Fi[®] + Bluetooth 5.0, M.2 card
- Wi-Fi 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card^[3]

Notes:

[1] Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[2] Bluetooth version depends on WLAN card.

[3] Wi-Fi 6 full features might be limited by country-level restrictions.

Ports^[1]

Standard Ports

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery and DisplayPort[™])
- 1x HDMI 2.0
- 1x Card reader
- 1x Headphone / microphone combo jack (3.5mm)

Optional Ports^{***}

- 1x USB-C 2.0 (support data transfer and Power Delivery, models with integrated graphics)
- 1x Power connector (models with discrete graphics)

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;

USB4[®] 20Gbps / USB 3.2 Gen 2x2 (SuperSpeed USB 20Gbps): 20 Gbit/s;

USB4 40Gbps (USB 40Gbps): 40 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

IR camera for Windows Hello

SERVICE

Warranty^[1]

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

Notes:

[1] The warranty upgrades may be bundled with some models, please check the "Included upgrade" column in the specific model's configurations. For more service extensions, please go to <https://smartfind.lenovo.com/>. To learn more details 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^[1]

Green Certifications

- (Optional) ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

Other Certifications

Other Certifications

TÜV Rheinland® Low Blue Light (Hardware Solution)

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

models.

- Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION “AS IS,” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.
- The specifications on this page may not be available in all regions, and may be changed or updated without notice.



AMD



AMD



AMD



AMD



AMD



AMD