

OVERVIEW



1. SD 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 Home
- Windows 11 Home Single Language
- Windows 11 Pro
- 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	Discrete	4GB GDDR6	Dynamic Boost 2.0, DirectX 12 ^[1]
NVIDIA GeForce RTX™ 3050 Laptop GPU	Discrete	4GB GDDR6	Dynamic Boost 2.0, NVIDIA DLSS, DirectX 12 Ultimate ^[2]
NVIDIA GeForce RTX 3050 Ti Laptop GPU	Discrete	4GB GDDR6	Dynamic Boost 2.0, NVIDIA DLSS, DirectX 12 Ultimate ^[3]

Notes:

[1], [2], [3] Dynamic Boost 2.0 is only supported with 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.

Removable Storage**Card Reader**

SD card reader

Multi-Media**Audio Chip**

High Definition (HD) Audio, Realtek® ALC3287 codec

Speakers

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

Microphone

Dual-microphone array

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]

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

- 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	Refresh Rate	Viewing Angle (L/R/U/D)	Key Features
16"	2.5K (2560x1600)	None	IPS	350nits	Anti-glare	16:10	1200:1	100% sRGB	60Hz	85°/85°/85°/85°	TÜV Low Blue Light (Hardware)
16"	2.5K (2560x1600)	None	IPS	350nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz (Max)	80°/80°/80°/80°	TÜV Low Blue Light (Hardware), G-Sync, TCON
16"	2.5K (2560x1600)	None	IPS	350nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz (Max)	85°/85°/85°/85°	TÜV Low Blue Light (Hardware), TCON

Color Calibration

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

Touchscreen

Non-touch

Notes:

[1] 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
Integrated graphics models	Starting at 1.92 kg (4.23 lbs)
Discrete graphics models	Starting at 1.95 kg (4.30 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 may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

[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 Headphone / microphone combo jack (3.5mm)
- 1x SD card reader

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****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^[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 and transportation: 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^[1]**

None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for IdeaPad® 5 Pro 16ARH7](#).

CERTIFICATIONS**Green Certifications^[1]****Green Certifications^[2]**

- 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.

[2] EPEAT™ registration and ENERGY STAR certification are dependent on system OS. Please visit [epeat.net](#) and [energystar.gov](#) for more information.

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