

OVERVIEW



| | |
|----------------------------------|--|
| 1. SD card reader | 6. USB 3.2 Gen 1 (Always On) |
| 2. USB 3.2 Gen 1 | 7. HDMI |
| 3. Ethernet (RJ-45) | 8. Thunderbolt 4 |
| 4. Kensington Nano Security Slot | 9. Headphone / microphone combo jack (3.5mm) |
| 5. USB-C 3.2 Gen 2 | |

PERFORMANCE

Processor

Processor Family

13th Generation Intel® U, P or H Series Core i3 / i5 / i7 Processor

Processor**

| Processor Name | Cores | Threads | Base Frequency | Max Frequency | Cache | Processor Graphics |
|----------------|--------------------------|---------|-------------------------------|-------------------------------|-------|---|
| Core i3-1315U | 6 (2 P-core + 4 E-core) | 8 | P-core 1.2GHz / E-core 0.9GHz | P-core 4.5GHz / E-core 3.3GHz | 10MB | Intel® UHD Graphics |
| Core i5-1334U | 10 (2 P-core + 8 E-core) | 12 | P-core 1.3GHz / E-core 0.9GHz | P-core 4.6GHz / E-core 3.4GHz | 12MB | Intel® Iris® Xe Graphics ^[1] |
| Core i5-1335U | 10 (2 P-core + 8 E-core) | 12 | P-core 1.3GHz / E-core 0.9GHz | P-core 4.6GHz / E-core 3.4GHz | 12MB | Intel® Iris® Xe Graphics ^[2] |
| Core i5-1340P | 12 (4 P-core + 8 E-core) | 16 | P-core 1.9GHz / E-core 1.4GHz | P-core 4.6GHz / E-core 3.4GHz | 12MB | Intel® Iris® Xe Graphics ^[3] |
| Core i5-13420H | 8 (4 P-core + 4 E-core) | 12 | P-core 2.1GHz / E-core 1.5GHz | P-core 4.6GHz / E-core 3.4GHz | 12MB | Intel® UHD Graphics |
| Core i5-13500H | 12 (4 P-core + 8 E-core) | 16 | P-core 2.6GHz / E-core 1.9GHz | P-core 4.7GHz / E-core 3.5GHz | 18MB | Intel® Iris® Xe Graphics ^[4] |
| Core i7-1355U | 10 (2 P-core + 8 E-core) | 12 | P-core 1.7GHz / E-core 1.2GHz | P-core 5.0GHz / E-core 3.7GHz | 12MB | Intel® Iris® Xe Graphics ^[5] |
| Core i7-1360P | 12 (4 P-core + 8 E-core) | 16 | P-core 2.2GHz / E-core 1.6GHz | P-core 5.0GHz / E-core 3.7GHz | 18MB | Intel® Iris® Xe Graphics ^[6] |
| Core i7-13700H | 14 (6 P-core + 8 E-core) | 20 | P-core 2.4GHz / E-core 1.8GHz | P-core 5.0GHz / E-core 3.7GHz | 24MB | Intel® Iris® Xe Graphics ^[7] |

Notes:

[1], [2], [3], [4], [5], [6], [7] Intel® Iris® Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel® Iris® Xe Graphics will function as Intel® UHD Graphics.

Operating System

Operating System**

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

Graphics

Graphics**

| Graphics | Type | Memory | TGP | Key Features |
|---|------------|--------|---------------|---------------|
| Intel® UHD Graphics | Integrated | Shared | Share CPU TDP | DirectX® 12.1 |
| Intel® Iris® Xe Graphics ^[1] | Integrated | Shared | Share CPU TDP | DirectX® 12.1 |

Notes:

[1] Intel® Iris® Xe Graphics capability requires system to be configured with dual-channel memory. On the system with single-channel memory, Intel® Iris® Xe Graphics will function as Intel® UHD Graphics.

Monitor Support

Monitor Support

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

- HDMI® supports up to 3840x2160@60Hz
- USB-C® supports up to 5120x3200@60Hz
- Thunderbolt™ supports up to 5120x3200@60Hz

Chipset

Chipset
Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]
Up to 64GB DDR5-5200

Memory Slots
Two DDR5 SO-DIMM slots, dual-channel capable

Memory Type
DDR5-5200^[2]

Notes:
[1] Maximum memory is only to test technical readiness of notebook. Available memory to sell would vary.
[2] Installed memory is actually DDR5-5600 but run as DDR5-5200 due to platform limitation.

Storage

Storage Support^[1]
Up to two drives, 2x M.2 SSD
• M.2 2242 SSD up to 1TB
• M.2 2280 SSD up to 2TB

Storage Slot
Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type^{***}

| Disk Type | Interface | Offering |
|--------------|---------------------------|---------------------|
| M.2 2242 SSD | PCIe® NVMe®, PCIe® 4.0 x4 | 256GB / 512GB / 1TB |
| M.2 2280 SSD | PCIe® NVMe®, PCIe® 4.0 x4 | 512GB / 1TB |

Notes:
[1] The max storage capacity is only technical readiness and may be different from 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, Dolby Audio™

Microphone
Dual-microphone array with smart noise-cancelling

Camera^{**}
• HD 720p, with privacy shutter, fixed focus
• FHD 1080p + IR hybrid, with privacy shutter, fixed focus
• FHD 1080p, with privacy shutter, fixed focus

Battery

Battery^{**}
• 45Wh Rechargeable Li-ion Battery, supports Rapid Charge Pro (charge up to 50% in 30min)
• 71Wh Rechargeable Li-ion Battery, supports Rapid Charge (charge up to 80% in 1hr) with 100W AC adapter

Max Battery Life^[1]

- Models with 45Wh battery:
MobileMark® 2018: 9.15 hr
MobileMark® 25: 8.0 hr
Local video (1080p) playback@150nits: 14.43 hr
- Models with 71Wh battery:
MobileMark® 2018: 13.48 hr
MobileMark® 25: 11.82 hr
Local video (1080p) playback@150nits: 17.72 hr

Notes:

[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2018, MobileMark® 25, 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]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (wall-mount) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 100W USB-C® slim (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz

Notes:

[1] AC adapter offerings depend on the country.

Special Features

Special Features

Modern Standby

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" | WUXGA (1920x1200) | None | IPS | 300nits | Anti-glare | 16:10 | 1000:1 | 45% NTSC | 60Hz | 89° / 89° / 89° / 89° | TÜV Low Blue Light (Software) |
| 16" | WUXGA (1920x1200) | None | IPS | 300nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 60Hz | 89° / 89° / 89° / 89° | Eyesafe® Certified 2.0 |
| 16" | WUXGA (1920x1200) | Multi-touch | IPS | 300nits | Anti-glare | 16:10 | 1000:1 | 45% NTSC | 60Hz | 89° / 89° / 89° / 89° | TÜV Low Blue Light (Software) |
| 16" | WQXGA (2560x1600) | None | IPS | 350nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 60Hz | 89° / 89° / 89° / 89° | Eyesafe® Certified 2.0 |
| 16" | WQXGA (2560x1600) | None | IPS | 350nits | Anti-glare | 16:10 | 1200:1 | 100% sRGB | 120Hz | 89° / 89° / 89° / 89° | Eyesafe® Certified 2.0 |

Touchscreen

- On-cell multi-touch, supports 10-point touch
- Non-touch

Notes:

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

Input Device

Pen

No support

Keyboard

6-row, spill-resistant, multimedia Fn keys, numeric keypad

Keyboard Backlight

- LED backlight
- Non-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 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

Weight^[2]

Starting at 1.7 kg (3.75 lbs)

Case Color

Arctic grey, dual-tone design

Surface Treatment

Anodizing sandblasting

Case Material

Aluminium (top), PC-ABS (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****WLAN + Bluetooth®**^[1]**

- Wi-Fi® 6, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.2, M.2 card^[2]
- Wi-Fi® 6E, 802.11ax 2x2 Wi-Fi® + Bluetooth® 5.3, M.2 card^[3]

WWAN

No support

Ethernet^[4]**

- Gigabit Ethernet, Intel® Ethernet Connection I219-LM (vPro® models), 1x RJ-45, supports Wake-on-LAN
- Gigabit Ethernet, Intel® Ethernet Connection I219-V (non-vPro® models), 1x RJ-45, supports Wake-on-LAN

Notes:

[1] Bluetooth® may operate at a lower version than hardware design depending on the factors such as operating system, driver, etc.

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

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

6GHz Wi-Fi® 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi® 6E, and the regional regulatory certifications & spectrum allocation.

[4] Wake-on-LAN needs the power adapter plugged in.

Ports**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 3.0 and DisplayPort™ 1.4)
- 1x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x HDMI® 2.1, up to 4K/60Hz

- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

Docking

Docking

Various docking solutions supported via Thunderbolt™ or USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G6 IRL](#)

SECURITY & PRIVACY

Security

Security Chip

Firmware TPM 2.0 integrated in SoC

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Fingerprint Reader

Touch style fingerprint reader integrated in smart power button

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- Self-healing BIOS

Other Security

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

MANAGEABILITY

System Management

System Management

- Intel® vPro® Essentials^[1]
- Non-vPro®

Notes:

[1] Intel® vPro® offers a superset of DASH's defined capabilities.

SERVICE

Warranty

Base Warranty**

- 1-year courier or carry-in service
- 2-year (1-yr battery) courier or carry-in service
- No base warranty

ACCESSORIES

Bundled Accessories

Bundled Accessories^[1]

- Lenovo® 15.6" laptop casual toploader, polyester
- None

Notes:

[1] For more compatible accessory solutions, please visit [Accessories for ThinkBook® 16 G6 IRL](#).

OPERATING REQUIREMENTS

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)

Relative 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).

ENVIRONMENTAL

Sustainability

Material^[1]

25% PCC recycled plastic used in the battery pack enclosure
50% PCC recycled plastic used in key caps
90% PCC recycled plastic used in standard 65W and 100W adapter
95% recycled content in PIC cushion
30% recycled content in OBP bag
FSC certified content in carton box

Notes:

[1] PCC: Post Consumer Content, recycled materials from customers.

CERTIFICATIONS

Green Certifications^[1]

Green Certifications^[2]

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered^[3]
- ErP Lot 6/26
- FSC certified package
- RoHS compliant
- TCO Certified 9.0^[4]

Notes:

[1] The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration. For ESG & regulatory compliance documents, please visit <https://compliance.lenovo.com>.

[2] EPEAT™ registration and ENERGY STAR® certification are optional and only available on the models with preloaded OS. Please visit epeat.net and energystar.gov for more information.

[3] EPEAT™ is registered where applicable, please visit epeat.net for registration status by country.

[4] TCO certification is NOT available in India and Brazil.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0

- (Optional) Intel® Evo™ Platform
 - (Optional) TÜV Rheinland® Low Blue Light (Hardware Solution)
 - (Optional) TÜV Rheinland® Low Blue Light (Software Solution)
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- Feature with ** means that only one option listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
 - Feature with *** means that one or more options listed under the feature can be configured on selected models. Please refer to the model configuration for specific information.
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