OVERVIEW



1. USB-C 3.2 Gen 2	6. USB 2.0 (hidden)
2. USB 3.2 Gen 1 (Always On)	7. SD card reader
3. HDMI	8. USB 3.2 Gen 1
4. USB4 / USB-C 3.2 Gen 2	9. Ethernet (RJ-45)
5. Headphone / microphone combo jack (3.5mm)	10. Kensington Nano Security Slot

PERFORMANCE

Processor

Processor Family

AMD Ryzen[™] 5 / 7 Processor

Processor**

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	
AMD Ryzen 5 6600U	J 6 12		2.9GHz	4.5GHz	3MB L2 / 16MB L3	AMD Radeon™ 660M Graphics	
AMD Ryzen 5 6600H	6	12	3.3GHz	4.5GHz	3MB L2 / 16MB L3	AMD Radeon 660M Graphics	
AMD Ryzen 5 PRO 6650U	0U ⁻ 6 12 2.9GHz 4.5GHz		4.5GHz	3MB L2 / 16MB L3	AMD Radeon 660M Graphics		
AMD Ryzen 7 6800U			4.7GHz	4MB L2 / 16MB L3	AMD Radeon 680M Graphics		
AMD Ryzen 7 6800H	8	16	3.2GHz	4.7GHz	4MB L2 / 16MB L3	AMD Radeon 680M Graphics	

Operating System

Operating System**[1]

- Windows® 11 Pro
- Windows 11 Home
- Windows 11 Home 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	Туре	Memory	Boost Clock	TGP	Key Features
AMD Radeon 660M	Integrated	Shared	-	Share CPU TDP	DirectX® 12
AMD Radeon 680M	Integrated	Shared	-	Share CPU TDP	DirectX 12
NVIDIA® GeForce RTX™ 2050 Laptop GPU	Discrete	4GB GDDR6	1700 MHz	70W	DirectX 12

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 3840x2160@60Hz

• USB-C supports up to 3840x2160@60Hz

Chipset

Chipset

AMD SoC (System on Chip) platform

Memory

Max Memory^[1]

- 16GB soldered memory, not upgradable
- 32GB soldered memory, not upgradable

Memory Slots

Memory soldered to systemboard, no slots, dual-channel

Memory Type

LPDDR5-6400

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^{[1][2]}

Up to two drives, 2x M.2 SSD • M.2 2242 SSD up to 1TB

- M.2 2242 SSD up to TTB
 M.2 2280 SSD up to 1TB
- M.2 2200 33D up

Storage Slot

Two M.2 2280 PCIe® 4.0 x4 slots

Storage Type***

Disk Type	Interface	RPM	Offering	Security
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 storage capacity supported is based on the test results with current Lenovo storage offerings. The system may support larger storage as the technology develops.
- 2. The system supports dual SSD via two M.2 slots, but Lenovo only offers one SSD configuration, another SSD slot for user selfextension.

Removable Storage

Optical

None

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, Dolby[®] Atmos[®]

Microphone

Dual-microphone array with AI-based noise-cancelling, near-field

Camera*

- FHD 1080p + IR hybrid, with privacy shutter, fixed focus, ToF sensor
- HD 720p, with privacy shutter, fixed focus
- FHD 1080p, with privacy shutter, fixed focus

Sensor

Sensors

ToF sensor (models with IR camera)

Battery

Battery**

- Integrated Li-Polymer 57Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min) with 100W AC adapter
- Integrated Li-Polymer 71Wh battery, supports Rapid Charge Pro (charge up to 50% in 30min) with 100W AC adapter

Power Adapter

Power Adapter^[1]

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

Notes:

Lenovo

1. AC adapter offerings depend on the country.

DESIGN

Display

Display**[1]

Size	Resolution	Touch	Туре	Brightness	Surface	Aspect Ratio	Contrast Ratio	Color Gamut	Viewing Angle (L/R/U/D)	Key Features
16″	WQXGA (2560x1600)	None	IPS	350 nits	Anti- glare	16:10	1200:1	100% sRGB	85°/85°/85°/85°	Refresh rate 60Hz, DC dimming
16″	WQXGA (2560x1600)	None	IPS	350 nits	Anti- glare	16:10	1200:1	100% sRGB	85°/85°/85°/85°	Refresh rate 120Hz, Factory Color Calibration (Δ E<1.5), DC dimming

Color Calibration

• TCON (Timing Controller) color calibration

• No color calibration

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, spill-resistant, multimedia Fn keys, SMB Service Hot key, numeric keypad

Keyboard Backlight

LED backlight

Touchpad

Buttonless glass surface multi-touch touchpad, supports Precision TouchPad (PTP), 80 x 135 mm (3.15 x 5.31 inches)

Mechanical

Dimensions (WxDxH)^[1]

356 x 251 x 16.5 mm (14.02 x 9.88 x 0.65 inches)

Weight^[2]

Starting at 1.8 kg (3.97 lbs)

Case Color

Arctic grey, dual-tone design

Surface Treatment

Anodizing sandblasting

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

Lenovo

Gigabit Ethernet, 1x RJ-45, supports Wake-on-LAN

WLAN + Bluetooth®**[1][2]

- Wi-Fi[®] 6, 802.11ax 2x2 Wi-Fi + Bluetooth 5.1, M.2 card
- Wi-Fi 6E, 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 limitations.
- Wi-Fi 6 and 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.
 Wi-Fi 6E is only enabled on Windows 11 and operates as Wi-Fi 6 with Windows 10.

Ports^{III}

Standard Ports^[2]

- 1x USB 2.0 (hidden)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort[™] 1.4)
- 1x HDMI, up to 4K/60Hz
- 1x Card reader
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)

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
- 2. One of the ports USB-C 3.2 Gen 2 will be upgraded to USB4® 40Gbps after June 2022.

Docking

Docking

Various docking solutions supported via USB-C. For more compatible docking solutions, please visit <u>Docking for ThinkBook 16 G4+ ARA</u>

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
- No fingerprint reader

BIOS Security

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

Other Security

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

SERVICE

Warranty^{III}

Base Warranty**

- 1-year courier or carry-in service
- 2-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 <u>https://smartfind.lenovo.com/</u>. To learn more details of warranty policy, please access <u>https://pcsupport.lenovo.com/warranty</u>.

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: 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 $^{\circ}\text{C}$ (50 $^{\circ}\text{F}\text{)}.$

CERTIFICATIONS

Green Certifications^{III}

Green Certifications^[2]

- EPEAT™ Gold
- 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 is registered where applicable, please see https://www.epeat.net for registration status by country.

Other Certifications

Mil-Spec Test

MIL-STD-810H military test passed

Other Certifications

- Eyesafe[®] Certified
- 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.
- Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not
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