

ThinkBook 16 G8 IAL

Conçu pour les professionnels ayant besoin de puissance, d'efficacité et de mobilité fluide, cet ordinateur portable ThinkBook offre des performances ultra-rapides avec le processeur Intel® Core i5/i7 de série U ou H et les graphiques intégrés Intel® Arc™ I30T ou I40T. Que vous gériez des équipes à distance, manipulez des modèles financiers complexes ou créez des présentations client à l'extérieur, il assure un multitâche fluide, une efficacité pilotée par l'IA et une sécurité de niveau entreprise. Avec jusqu'à 64 Go de mémoire DDR5-5600 et 4 To de stockage SSD, bénéficiez de flux de travail ultra-rapides, d'analyses de données en temps réel et d'une collaboration sécurisée, où que vous emmène votre activité.



**Des performances puissantes
et une intelligence artificielle
révolutionnaire intégrée.**

Profitez d'images époustouflantes sur un écran WUXGA 16 pouces, tactile multipoint en option, avec 300 nits de luminosité et un contraste de 1000:1. Idéal pour les présentations, il assure des images nettes et des interactions tactiles précises pour un multitâche sans effort.

Restez performant avec une batterie de 71 Wh se chargeant à 80 % en une heure. Pesant 1,7 kg, cet ordinateur est ultraportable. Wi-Fi® 6E, Bluetooth® 5.3 et carte M.2 garantissent une connectivité rapide.

Conçu pour l'efficacité énergétique, il a obtenu les certifications EPEAT Or et ENERGY STAR 9.0. Conforme aux normes ErP Lot 6/26, il réduit la consommation d'énergie tout en maintenant de hautes performances.

Services

Lenovo propose des solutions de durabilité personnalisées comprenant des services, des appareils et des infrastructures issus de sa large gamme et travaille étroitement avec vous pour vous aider à atteindre vos objectifs sur tout le cycle de vie de vos outils informatiques.



Lenovo Premier Support Plus 360

- Helping IT predict and prevent device downtime
- Elite 24x7 expert support empowers IT and users alike
- AI insights help resolve issues before they impact business

Accessoires

Lenovo USB-C Dual Display Travel Dock

- Compagnon ultime de productivité.
- Câblage à gestion réglable
- Conçu avec innovation et conscience



PN: Dock without Adapter : 40B90000WW, Dock with Adapter : 40B90100xx

Souris silencieuse Bluetooth ThinkBook

- Souris Bluetooth avec boutons silencieux pour un fonctionnement sans bruit
- Conception extra plate adaptée aux droitiers et gauchers
- 4 boutons, défilement bidirectionnel et réglage PPP simple : 2 400, 1 600, 800



PN: 4Y50X88824

ThinkBook 16 G8 IAL



Performance

Processeur

Intel U or H Series Core Ultra 5/7 Processor (Series 2)

AI PC Category

AI PC

AI Performance

Up to 96 overall TOPS

Système opérateur*

Windows 11 Pro
Windows 11 Home
Windows 11 Home Single Language

NPU

Integrated Intel AI Boost, up to 13 TOPS

Graphique ¹

Intel Graphics (integrated)
Intel Arc 130T GPU (integrated)
Intel Arc 140T GPU (integrated)

¹Intel Arc graphics only available on select H-series Intel Core Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel Graphics.

Mémoire ²

Up to 64GB DDR5-5600, 2x SO-DIMM

²Maximum memory is only to test technical readiness of notebook but not shipped by Lenovo.

Stockage ³

Up to 2TB M.2 2280 PCIe NVMe SSD
(system supports two M.2 slots)

³The system supports dual SSD via two M.2 slots, but Lenovo only offers one SSD configuration, another SSD slot for user self-extension. The max storage capacity is only technical readiness and may be different with current Lenovo storage offerings.

l'audio*

High Definition (HD) Audio
Stereo speakers, 2W x2, Dolby Audio
Dual-microphone array with smart noise-cancelling

Caméra*

FHD 1080p, with privacy shutter
FHD 1080p + IR hybrid, with privacy shutter

Batterie ⁴

45Wh (up to 7.7 hr) battery, Rapid Charge Pro
71Wh (up to 14 hr) battery, Rapid Charge

⁴Battery life claims are approximate maximum. Actual result will vary depending on many factors and the maximum battery capacity will decrease with time and use.

Adaptateur secteur*

65W USB-C adapter, PD 3.0
65W USB-C slim adapter, PD 3.0

Design

écran ^{5 6}

16" WUXGA (1920x1200) IPS Anti-glare 16:10
- 300nits, 45% NTSC, 60Hz
- 300nits, 45% NTSC, 60Hz, touch
16" WQXGA (2560x1600) IPS Anti-glare 16:10
- 400nits, 100% sRGB, 120Hz, TCON

⁵IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.

⁶WQXGA display is available exclusively in Korea.

Clavier

6-row, spill-resistant, numeric keypad, Copilot Key, optional backlight

Touchpad

Mylar surface touchpad
75 x 120 mm (2.95 x 4.72 inches)

Dimensions ⁷

356 x 253.5 x 17.5 mm (14.01 x 9.98 x 0.69 inches)

⁷The system dimensions may vary depending on configurations.

Poids ⁸

Starting at 1.7 kg (3.75 lbs)

⁸The system weight is approximate and may vary depending on configurations

Couleur

Arctic grey, dual-tone design

Case material

Aluminium (top)
PC-ABS (bottom)

Caractéristiques spéciales

Modern Standby

Connectivité

Ethernet

Gigabit onboard Ethernet

WLAN + Bluetooth*

802.11ax (Wi-Fi 6 or Wi-Fi 6E), Bluetooth 5.2 or 5.3
Up to Intel Wi-Fi 6E AX211, Bluetooth 5.3

Ports

1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
1x USB-C (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 & DP 1.4
1x USB-C (Thunderbolt 4 / USB4 40Gbps), with USB PD 3.0 & DP 2.1
1x HDMI 2.1, up to 4K/60Hz
1x SD card reader
1x Ethernet (RJ-45)
1x Headphone / microphone combo jack (3.5mm)

station d'accueil

Docking support via Thunderbolt or USB-C

Sécurité et confidentialité

Sécurité

Firmware TPM 2.0
Kensington Nano Security Slot
Touch style fingerprint reader on smart power button
Camera privacy shutter
IR camera for Windows Hello (facial recognition)*

Certifications

Certifications Environnementales ^{9 10 11}

EPEAT Gold Registered
ENERGY STAR 9.0
ErP Lot 6/26
TCO Certified 10.0
RoHS compliant

⁹The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

¹⁰EPEAT registration and ENERGY STAR certification are optional and only available on the models with preloaded OS.

¹¹EPEAT is registered where applicable, please see epeat.net for registration status by country.

Autres certifications

TÜV Rheinland Low Blue Light (Hardware Solution)*
TÜV Rheinland Low Blue Light (Software Solution)*
Eyesafe Certified 2.0*
MIL-STD-810H

Items with * are optional and only available on selected models. Les informations présentées ici peuvent représenter les configurations maximales possibles pour ce produit, mais elles ne reflètent pas nécessairement ce qui est disponible dans votre région. Veuillez interroger votre représentant ou vérifier les spécifications des références spécifiques dans votre région. © 2023 Lenovo. Les produits sont disponibles jusqu'à épuisement des stocks. La société Lenovo ne peut être tenue responsable des erreurs photographiques ou typographiques. Lenovo, le logo Lenovo, ThinkPad, ThinkCentre, ThinkBook, ThinkStation et ThinkVision sont des marques de commerce ou des marques déposées de Lenovo. Les noms de produits et services de sociétés tierces peuvent être des marques de commerce déposées de ces sociétés. La vitesse de transfert réelle des données des connecteurs USB peut varier selon des facteurs tels que la capacité de traitement des appareils périphériques, les attributs de fichier, la configuration du système et les environnements d'exploitation. Elle sera généralement inférieure aux normes publiées.

OVERVIEW



1. USB-C (USB 10Gbps), with PD 3.0 & DP 1.4	6. SD card reader
2. USB-A (USB 5Gbps), Always On	7. USB-A (USB 5Gbps)
3. HDMI	8. Ethernet (RJ-45)
4. Thunderbolt 4	9. Kensington Nano Security Slot
5. Headphone / microphone combo jack (3.5mm)	

PERFORMANCE

Processor

Processor Family

Intel® U or H Series Core Ultra 5 / 7 Processor (Series 2)

Processor**[1]

Processor Name	Cores	Threads	Base Frequency	Max Frequency	Cache	Processor Graphics	NPU
Core Ultra 5 225H	14 (4 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.7GHz / E-core 1.3GHz / LPE-core 700MHz	P-core 4.9GHz / E-core 4.3GHz / LPE-core 2.5GHz	18MB	Intel® Arc™ 130T GPU, up to 63 TOPS	Intel® AI Boost
Core Ultra 5 225U	12 (2 P-core + 8 E-core + 2 LPE-core)	14	P-core 1.5GHz / E-core 1.3GHz / LPE-core 700MHz	P-core 4.8GHz / E-core 3.8GHz / LPE-core 2.4GHz	12MB	Intel® Graphics	Intel® AI Boost
Core Ultra 7 255H	16 (6 P-core + 8 E-core + 2 LPE-core)	16	P-core 2GHz / E-core 1.5GHz / LPE-core 700MHz	P-core 5.1GHz / E-core 4.4GHz / LPE-core 2.5GHz	24MB	Intel® Arc™ 140T GPU, up to 74 TOPS	Intel® AI Boost

Notes:

[1] Intel® Arc™ graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least 16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

AI (Artificial Intelligence)

AI PC Category

AI PC[1]

AI Performance

Up to 96 overall TOPS

NPU

Integrated Intel® AI Boost, up to 13 TOPS

Notes:

[1] AI PCs have a NPU capable of 10+ TOPs to run the Copilot assistant by pressing the optional Microsoft® Copilot key or using Win + C.

Operating System

Operating System**[1]

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

Notes:

[1] Windows® 11 Pro Education license can be requested for EMEA Education Customers only with limited specs. Any request please contact Lenovo® Sales Representative for more information.

Graphics

Graphics**

Graphics	Type	Memory	TGP	Key Features
Intel® Arc™ 130T GPU[1]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Arc™ 140T GPU[2]	Integrated	Shared	Share CPU TDP	DirectX® 12.2
Intel® Graphics	Integrated	Shared	Share CPU TDP	DirectX® 12.2

Notes:

[1], [2] Intel® Arc™ graphics only available on select H-series Intel® Core™ Ultra processor powered systems with at least

16GB of system memory in a dual-channel configurations, otherwise it will function as Intel® Graphics.

Monitor Support

Monitor Support^[1]

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

- HDMI® supports up to 4096x2160@60Hz
- USB-C® supports up to 5120x2880@60Hz
- Thunderbolt™ supports up to 5120x2880@60Hz

Notes:

[1] Refresh rates >60hz also supported, however max resolution will be limited.

Chipset

Chipset

Intel® SoC (System on Chip) platform

Memory

Max Memory^[1]

Up to 64GB DDR5-5600

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Memory Type

DDR5-5600

Notes:

[1] Maximum memory is only to test technical readiness of notebook. Available memory to sell would vary.

Storage

Storage Support^[1]

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB each

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

Notes:

[1] The system supports dual SSD via two M.2 slots, but Lenovo® offers only one SSD configuration with a second slot for user self-expansion.

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**

- 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® 30@250nits: 7.7 hr
Local video (1080p) playback@150nits: 13.1 hr
- Models with 71Wh battery:
MobileMark® 30@250nits: 14 hr
Local video (1080p) playback@150nits: 19.5 hr

Notes:

^[1] All battery life claims are approximate maximum and based on results using the MobileMark® 2014, MobileMark® 2018, MobileMark® 25, MobileMark® 30, JEITA 2.0, JEITA 3.0, 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]

- 65W USB-C® (3-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
- 65W USB-C® slim (2-pin, wall-mount) 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 ^[2]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WUXGA (1920x1200)	Multi-touch	IPS ^[3]	300nits	Anti-glare	16:10	1000:1	45% NTSC	60Hz	89° / 89° / 89° / 89°	TÜV Low Blue Light (Software)
16"	WQXGA (2560x1600)	None	IPS ^[4]	400nits	Anti-glare	16:10	1200:1	100% sRGB	120Hz	89° / 89° / 89° / 89°	Eyesafe® Certified 2.0, TCON

Color Calibration

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

Touchscreen

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

Notes:

[1] WQXGA display is available exclusively in Korea.

[2], [3], [4] 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, Copilot key

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 (top), texture (bottom)

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

WWAN

No support

Ethernet^[3]

Gigabit Ethernet, 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® 6E operation is subject to the regulation rules in each country.

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

Ports^[1]

Standard Ports

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On

- 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with USB PD 3.0 and DisplayPort™ 1.4
- 1x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
- 1x HDMI® 2.1, up to 4K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x SD card reader

Notes:

[1] The transfer speed of the 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.

Docking

Docking

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

For more compatible docking solutions, please visit [Docking for ThinkBook® 16 G8 IAL](#)

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 power button, match-on-chip
- No fingerprint reader

BIOS Security

- Hard disk password
- Power-on password
- Supervisor password
- User password
- Self-healing BIOS
- More BIOS security features, please visit [BIOS Simulator](#)^[1]

Other Security

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

Notes:

[1] The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

MANAGEABILITY

System Management

System Management

Non-vPro®

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 G8 IAL](#).

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]

15% PCC recycled plastic used in the cover frame
25% PCC recycled plastic used in the battery frame
50% PCC recycled plastic used in keycaps
30% PCC recycled plastic used in speaker
90% PCC recycled plastic used in standard 65W adapter
FSC certified content in carton box and accessory box
Dry pressed pulp cushion
Bamboo fiber bag (for NA / EMEA)
Bamboo fiber screen sheet
90% recycled content in OBP bag

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
- RoHS compliant
- TCO Certified 10.0

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.

Other Certifications**Mil-Spec Test**

MIL-STD-810H military test passed

Other Certifications

- (Optional) Eyesafe® Certified 2.0
 - (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.
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