



Lenovo ThinkBook 16 G8 IAL Intel Core Ultra 7 255H Laptop 40.6 cm (16") Touchscreen WUXGA 16 GB DDR5-SDRAM 512 GB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Grey

Brand : Lenovo

Product family: ThinkBook

Product code: 21SK0094US

Product name : ThinkBook 16 G8 IAL



- Intel Core Ultra 7 255H, 16C (6P + 8E + 2LPE)/16T, Max Turbo up to 5.1GHz, 24MB Intel Smart Cache
- 16" WUXGA (1920x1200) IPS 300nits 45% NTSC 60Hz Touch
- 1x 16GB SODIMM DDR5-5600
- 512GB SSD M.2 2242 PCIe 4.0x4 NVMe
- Intel Arc 140T GPU Functions as Intel Graphics
- Windows 11 Pro

Intel Core Ultra 7 255H, 16C (6P + 8E + 2LPE)/16T, Max Turbo up to 5.1GHz, 24MB Intel Smart Cache, 1x 16GB SODIMM DDR5-5600, 512GB SSD M.2 2242 PCIe 4.0x4 NVMe, 16" WUXGA (1920x1200) IPS 300nits 45% NTSC 60Hz Touch, Intel Arc 140T GPU Functions as Intel Graphics, Wi-Fi 6E 802.11ax 2x2 + BT5.3, FHD 1080p with Privacy Shutter, Windows 11 Pro



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Built for the Bold — Unwavering Power, Performance & Reliability

- 16" sleek, modern business laptop with robust AI capabilities
- Optimized for responsive computing & multitasking with the power of Intel® Core™ Ultra processors
- Expansive storage, robust enterprise-level security features & long battery life

Design		Graphics	
Colour name	Arctic Grey	Discrete graphics card model *	Not available
Product type *	Laptop	On-board graphics card *	✓
Product colour *	Grey	On-board GPU manufacturer	Intel
Form factor *	Clamshell	Discrete graphics card *	✗
Housing material	Acrylonitrile butadiene styrene (ABS), Aluminium, Polycarbonate (PC)	On-board graphics card family	Intel Arc Graphics
		On-board graphics card model *	Intel Arc 140T
Display		Audio	
Display diagonal *	40.6 cm (16")	Audio chip	Realtek ALC3287
Display resolution *	1920 x 1200 pixels	Number of built-in speakers	2
Touchscreen *	✓	Speaker power	2 W
HD type	WUXGA	Built-in microphone	✓
Panel type	IPS	Number of microphones	2
LED backlight	✓	Camera	
Native aspect ratio	16:10	Front camera	✓
Anti-glare screen	✓	Front camera resolution	1920 x 1080 pixels
Display brightness	300 cd/m²	Front camera HD type	Full HD
RGB colour space	NTSC	Privacy camera	✓
Colour gamut	45%	Privacy type	Privacy shutter
Maximum refresh rate	60 Hz	Network	
Processor		Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Processor manufacturer *	Intel	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Processor family *	Intel Core Ultra 7	Mobile network connection *	✗
Processor generation	Intel Core Ultra (Series 2)	Antenna type	2x2
Processor model *	255H	Ethernet LAN	✓
Processor cores	16	Ethernet LAN data rates	100,1000 Mbit/s
Processor threads	16	Bluetooth	✓
Processor boost frequency	5.1 GHz		

Processor		Network	
Performance cores	6	Bluetooth version	5.3
Efficient cores	8	WWAN	Not installed
Low Power Efficient-cores	2	Ports & interfaces	
Performance-core Max Turbo Frequency	5.1 GHz	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Efficient-core Max Turbo Frequency	4.4 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Low Power Efficient-core Max Turbo Frequency	2.5 GHz	Ethernet LAN (RJ-45) ports	1
Performance-core base frequency	2 GHz	HDMI ports quantity *	1
Efficient-core base frequency	1.5 GHz	HDMI version	2.1
Low Power Efficient-core Base Frequency	700 MHz	Thunderbolt 4 ports quantity	1
Processor cache	24 MB	Intel® Thunderbolt 4	✓
Processor base power	28 W	Combo headphone/mic port	✓
Maximum turbo power	115 W	USB Sleep-and-Charge	✓
Neural processor unit (NPU)		Performance	
Neural processor unit (NPU)	Intel AI Boost	Motherboard chipset	Intel SoC
Sparsity support	✓	Keyboard	
Windows Studio effects support	✓	Pointing device	Touchpad
AI software frameworks supported by NPU	DirectML, ONNX RT, OpenVINO, Windows ML	Numeric keypad *	✓
Total processor performance up to	96 TOPs	Keyboard backlit	✓
NPU performance up to	13 TOPs	Software	
GPU performance up to	74 TOPs	Operating system architecture	64-bit
Memory		Trial software	Office
Internal memory *	16 GB	Operating system installed *	Windows 11 Pro
Internal memory type	DDR5-SDRAM	Battery	
Memory clock speed	5600 MHz	Battery capacity *	45 Wh
Memory form factor	SO-DIMM	Power	
Memory layout (slots x size)	1 x 16 GB	AC adapter power	65 W
Memory slots	2x SO-DIMM	USB Type-C charging port *	✓
Maximum internal memory *	64 GB	USB Power Delivery (USB PD)	✓
Storage		Security	
Total storage capacity *	512 GB	Cable lock slot	✓
Storage media *	SSD	Cable lock slot type	Kensington
Total SSDs capacity	512 GB	Fingerprint reader	✓
Number of SSDs installed	1	Trusted Platform Module (TPM)	✓
SSD capacity	512 GB	Trusted Platform Module (TPM) version	2.0
SSD interface	PCI Express 4.0	Certificates	
NVMe	✓	Certification	ENERGY STAR,TCO,EPEAT Gold,RoHS
SSD form factor	M.2	Weight & dimensions	
Optical drive type *	✗	Width	356 mm
Card reader integrated	✓	Depth	253.5 mm
Compatible memory cards	SD	Height	17.5 mm
		Weight *	1.7 kg
		Packaging content	
		AC adapter included *	✓



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