

Two Steps Ahead of Gaming

Stay two steps ahead of the future direction of gaming and rise above the competition with cutting-edge AI performance tuning coupled with state-of-the-art hardware and thermals. The Lenovo LOQ 16IRH8 features up to Intel® Core™ i7-13700H processor, NVIDIA® GeForce RTX™ 4060 Laptop GPU and up to 32GB 5600MHz DDR5 RAM, performance-tuned with the Lenovo AI Engine+ and a dedicated MUX Switch with NVIDIA® Advanced Optimus to push the limits of what a gaming PC can do. Game in peace, even in the library, with advanced thermal management. Immerse yourself in the roomy 16" display's 16:10 WQXGA resolution with 165Hz variable refresh rate. Find the precision and speed to dominate the competition with the signature Lenovo gaming keyboard.

WHY YOU SHOULD BUY THE LENOVO LOQ 16IRH8



13th Gen Intel® Core™ Processors. Beyond Performance.

Stream, create and compete at the highest levels - 13th Gen Intel Core processors push your gameplay beyond performance, giving you the power to do it all.



Fully Powered NVIDIA® GeForce RTX™ Graphics Cards. Beyond Fast.

NVIDIA® GeForce RTX™ 40 Series Laptop GPUs are beyond fast for gamers and creators. Experience lifelike virtual worlds with ray tracing, massively boost performance with DLSS 3, and get a competitive edge with Reflex.



The Power of AI-fueled Gaming

Unlock unprecedented performance with the Lenovo AI Engine+ and Lenovo LA1 AI chip that pair with the MUX Switch with NVIDIA® Advanced Optimus to take your gaming to the next level.



Game Large while Staying Inconspicuous

Game large while staying inconspicuous thanks to our advanced thermal design featuring four heat pipes, dual 85mm 12V high-speed fans, larger vents that keep noise levels down.



Lenovo LOQ 16IRH8



SPECIFICATIONS

Lenovo LOQ 16IRH8

PERFORMANCE

Processor

13th Generation Intel® Core™ i7-13700H
13th Generation Intel® Core™ i7-13620H
13th Generation Intel® Core™ i5-13500H
13th Generation Intel® Core™ i5-13420H

Operating System

Windows 11 Pro
Windows 11 Home
Non OS

Graphics

NVIDIA® GeForce RTX™ 4060 Laptop GPU
8GB GDDR6 (115W) 2370Mhz Boost Clock
NVIDIA® GeForce RTX™ 4050 Laptop GPU
6GB GDDR6 (95W) 2370Mhz Boost Clock
NVIDIA® GeForce RTX™ 3050 Laptop GPU
6GB GDDR6 (95W) 1732Mhz Boost Clock
NVIDIA® GeForce RTX™ 2050 Laptop GPU
4GB GDDR6 (70W) 1575Mhz Boost Clock

(40 Series) NVIDIA® Supported Technologies
NVIDIA DLSS 3, NVIDIA Ada Lovelace,
Architecture, NVIDIA Max-Q Technologies:
Advanced Optimus, Optimal Playable
Settings, Rapid Core Scaling, CPU Optimizer,
Dynamicboost, DLSS and Resizeable BAR

MUX Supported

AI Chip

Lenovo LA1 AI Chip

Memory

Dual Channel 5600 MHz DDR5:
8GB (1 x 8GB)
16GB (2 x 8GB / 1 x 16GB)
32GB (2 x 16GB)²

Storage

PCIe® NVMe™ TLC M.2 2280 SSD (Gen4):
512GB / 1TB / 2TB (2 x 1TB)²
PCIe® NVMe™ QLC M.2 2280 SSD (Gen4):
512GB / 1TB

Power Adapter

135W Slim Adapter
170W Slim Adapter
230W Slim Adapter⁵
Support 140W Type-C™ Power Delivery

LENOVO SERVICES

Lenovo Premium Care⁴

Whether you need setup advice, a quick fix for your internet connection, resolve a software issue, or help to add a printer, Lenovo Premium Care has your back.

Lenovo CO₂ Offset Service

Lenovo CO₂ Offset Service gives consumers a simple and transparent way to offset carbon emissions and help the environment by supporting one of several United Nations Climate Action projects.

Accidental Damage Protection

Drops, bumps, and spills can damage even the most durable and well-engineered tablets, PCs, and Smart Displays. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty and protects your devices from non-warranty operational or structural failures incurred under normal operating conditions.

McAfee® LiveSafe™

Register McAfee® to enjoy these benefits in your FREE 30-day trial.

- Award-winning Antivirus
- Multi-device Compatibility
- Password Manager
- Identity Theft Protection
- Safe Web Browsing
- Free Customer Support



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Battery

60Whr/80Whr

Up to 10 hours (target)

60Whr: Support Rapid Charge
(60min charge 0-80% capacity
120min charge -100% capacity)

80Whr: Support Rapid Charge Pro
(30min charge 0-50% capacity,
120min charge 0-100% capacity)

DESIGN

Display

16" WQXGA (2560*1600) IPS; 16:10 (165Hz
VRR / 5ms/3ms Response Time / 90% AAR /
100% sRGB / 350nit / NVIDIA® G-SYNC®
Support / TÜV Low Blue Light)

16" WUXGA (1920*1200) IPS; 16:10 (144Hz VRR
/ 90% AAR / 45% NTSC / 350nit / NVIDIA®
G-SYNC® Support)

Dimensions (W x D x H) (Target)

(mm): 359.60 x 277.59 x 21.00-25.9
(inches): 14.16" x 10.92" x 0.83"-1.02"

Weight (Target)

Starting at <2.60kg / 5.73lbs⁴

Color

Storm Grey

Keyboard

1.5mm / White Backlight or optional 4-zone
RGB / 100% Anti-Ghosting

Webcam

Built-in FHD Webcam with E-Shutter

CONNECTIVITY

WLAN

2 x 2 Intel® Wi-Fi 6 (802.11ax)

Bluetooth

Starting from Bluetooth® 5.1

Audio

2 x 2W speakers with Nahimic Audio

I/O (Input/Output) Ports

Left

1 X USB Type-C™ (10Gbps; DisplayPort™ 1.4
+ 140W Power Delivery)
1 X Audio Combo Jack

Right

1 X USB Type-A 3.2 Gen 1 (5Gbps)
1 X E-Shutter Button

Rear

1 X DC-In
1 X RJ45
2 X USB Type-A 3.2 Gen2 (10Gbps)
1 X HDMI™ 2.1

PRELOADED SOFTWARE

- Lenovo Vantage
- McAfee® LiveSafe™ (trial)
- Microsoft 365 (trial)
- Xbox Game Pass (3-month trial)
- Fn+R: 165Hz / 144Hz / 60Hz
- Fn+Q: Performance / Intelligent / Quiet Mode
- Q-Control: Custom Mode



OPTIONS & ACCESSORIES



Coming Soon



Coming Soon



Coming Soon

* Example of Lenovo catalog naming convention

Lenovo LOQ

Sub-brand

16IRH8

Screen size

Platform

Generation



Lenovo