

# Legion Pro 7 16IRX8H

## PSREF Product Specifications Reference

### PERFORMANCE

#### Processor

Intel® Core™ i9-13900HX, 24C (8P + 16E) / 32T, P-core 2.2 / 5.4GHz, E-core 1.6 / 3.9GHz, 36MB

#### Graphics

NVIDIA® GeForce RTX™ 4080 12GB GDDR6, Boost Clock 2280MHz, TGP 175W

#### Chipset

Intel® HM770 Chipset

#### Memory

2x 16GB SO-DIMM DDR5-5600

#### Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

#### Max Memory<sup>[1]</sup>

Up to 32GB DDR5-5600 offering

#### Storage

1TB SSD M.2 2280 PCIe® 4.0x4 NVMe®

#### Storage Support<sup>[2]</sup>

Up to two drives, 2x M.2 SSD  
• M.2 2280 SSD up to 1TB each

#### Storage Slot

Two M.2 2280 PCIe® 4.0 x4 slots

#### Card Reader

None

#### Optical

None

#### Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

#### Speakers

Stereo speakers (super linear speaker), 2W x2, audio by HARMAN, optimized with Nahimic Audio, Smart Amplifier (AMP)

#### Camera

FHD 1080p with E-shutter

#### Microphone

2x, Array

#### Battery

Integrated 99.9Wh

#### Power Adapter

330W Slim Tip Tiny GaN (3-pin)

#### Special Features<sup>[3]</sup>

- AI Chip: LA2-Q
- Legion Coldfront 5.0 cooling system

### DESIGN

#### Display<sup>[4]</sup>

16" WQXGA (2560x1600) IPS 500nits Anti-glare, 100% sRGB, 240Hz, DisplayHDR™ 400, Dolby Vision®, G-SYNC®, Low Blue Light, High Gaming Performance

#### Touchscreen

None

#### Color Calibration

Factory Color Calibration

#### Keyboard

Per-key RGB Backlit (with Lighting Lens), Turkish

#### Touchpad

Buttonless Mylar® surface multi-touch touchpad, 75 x 120 mm (2.95 x 4.72 inches)

#### Case Color

Onyx Grey

#### Surface Treatment

Anodizing

#### Case Material

Aluminium (Top), Aluminium (Bottom)

#### Pen

Pen Not Supported

#### Dimensions (WxDxH)<sup>[5]</sup>

363.4 x 263.55 x 21.97-25.9 mm (14.31 x 10.38 x 0.86-1.02 inches)

#### Weight<sup>[6]</sup>

Less than 2.8 kg (6.17 lbs)

### SOFTWARE

#### Operating System

None

#### Bundled Software

None

### CONNECTIVITY

#### Ethernet

100/1000M (RJ-45)

#### WLAN + Bluetooth<sup>[7]</sup>

Intel® Killer Wi-Fi® 6E AX1675i, 802.11ax 2x2 + BT5.3

#### WWAN

Non-WWAN

#### Standard Ports

- 1x USB 3.2 Gen 1 (Always On)
- 3x USB 3.2 Gen 1
- 1x USB-C® 3.2 Gen 2 (support data transfer, Lenovo® Power Delivery 140W and DisplayPort™ 1.4)
- 1x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, Power Delivery and DisplayPort™ 1.4)
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x Power connector

### SECURITY & PRIVACY

#### Security Chip

Firmware TPM 2.0 Enabled

#### Fingerprint Reader

None

#### Other Security

E-shutter

### SERVICE

#### Base Warranty

2-year, Courier or Carry-in

#### Included Upgrade

3Y Premium Care with Onsite upgrade from 2Y Courier/Carry-in

### ACCESSORIES

#### Bundled Accessories<sup>[8]</sup>

4 Switchable Keycaps and Easy Tool

### CERTIFICATIONS

#### Green Certifications

- ErP Lot 3
- RoHS compliant

#### Other Certifications

- TÜV Rheinland® High Gaming Performance
- TÜV Rheinland® Low Blue Light (Hardware Solution)

### MODEL

|                 |                |                |              |
|-----------------|----------------|----------------|--------------|
| TopSeller       | : Yes          | Announce Date  | : 2023-08-23 |
| EAN / UPC / JAN | : 197532851054 | End of Support | : 2029-02-24 |



Product image is a sample, it may not match the real color of this model

Note:

[1] The max memory is based on the test results with current Lenovo memory offerings.

[2] The storage capacity supported is based on the test.....

• Lenovo reserves the right to change specifications without notice.

To see more note information, please link to

<https://psref.lenovo.com/Detail/2196?M=82WQOOC1TX>

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## Recommended Accessories

### Lenovo USB-C 7-in-1 Hub

Travel - Ready Productivity. One-stop travel docking is finally here. Connect and charge new and legacy devices wherever you happen to be. Sleek and compact, the Lenovo USB-C 7-in-1 Hub fits unlimited productivity i...

### Lenovo USB-C to Ethernet Adapter

The Lenovo USB-C to Ethernet Adapter is quick and easy way to connect your USB-C enabled notebook to Ethernet connections. It's ideal for imaging of systems or transferring large files quickly.

For a full list of accessories and services, please visit:  
<https://smartfind.Lenovo.com>

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