

# IdeaPad Gaming 3 16IAH7 82SA00K4FR

**Lenovo****PSREF**Product Specifications  
Reference

## PERFORMANCE

### Processor

Intel® Core™ i5-12450H, 8C (4P + 4E) / 12T, P-core 2.0 / 4.4GHz, E-core 1.5 / 3.3GHz, 12MB

### Graphics

NVIDIA® GeForce RTX™ 3050 4GB GDDR6, Boost Clock 1740MHz, TGP 85W

### Chipset

Intel® SoC Platform

### Memory

1x 16GB SO-DIMM DDR4-3200

### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

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

Up to 16GB DDR4-3200 offering

### Storage

512GB SSD M.2 2280 PCIe® 3.0x4 NVMe®

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

Up to two drives, 2x M.2 SSD

- M.2 2242 SSD up to 1TB
- M.2 2280 SSD up to 1TB

### Storage Slot

Two M.2 slots

- One M.2 2242 PCIe® 4.0 x4 slot
- One M.2 2280 PCIe® 4.0 x4 slot

### Card Reader

None

### Optical

None

### Audio Chip

High Definition (HD) Audio, Realtek® ALC3287 codec

### Speakers

Stereo speakers, 2W x2, Nahimic Audio

### Camera

FHD 1080p with Privacy Shutter

### Microphone

2x, Array

### Battery

Integrated 71Wh

### Power Adapter

170W Slim Tip (3-pin)

## DESIGN

### Display<sup>[3]</sup>

16" WUXGA (1920x1200) IPS 350nits Anti-glare, 100% sRGB, 165Hz

### Touchscreen

None

### Keyboard

White Backlit, French

### Touchpad

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

### Case Color

Onyx Grey

### Surface Treatment

Painting

### Case Material

PC-ABS (Top), PC-ABS (Bottom)

### Dimensions (WxDxH)<sup>[4]</sup>

359.6 x 277.8 x 20.9 mm (14.16 x 10.94 x 0.82 inches)

### Weight<sup>[5]</sup>

Around 2.6 kg (5.7 lbs)

## SOFTWARE

### Operating System

None

### Bundled Software

None

## CONNECTIVITY

### Ethernet

100/1000M (RJ-45)

### WLAN + Bluetooth<sup>[6]</sup>

Wi-Fi® 6, 11ax 2x2 + BT5.1

### Standard Ports

- 2x USB 3.2 Gen 1
- 1x HDMI®, up to 4K/30Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (RJ-45)
- 1x Power connector

### Optional Ports (configured)

1x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)

### Docking

Various docking solutions supported via Thunderbolt™ / USB-C®. For more compatible docking solutions, please visit

[Docking for IdeaPad® Gaming 3 16IAH7](#)

## SECURITY & PRIVACY

### Security Chip

Firmware TPM 2.0

### Fingerprint Reader

None

### Other Security

Camera privacy shutter

## SERVICE

### Base Warranty

2-year, Courier or Carry-in

### Included Upgrade

None

## ACCESSORIES

### Bundled Accessories<sup>[7]</sup>

None

## CERTIFICATIONS

### Green Certifications

- ErP Lot 3
- RoHS compliant

## MODEL

TopSeller : Yes

Announce Date : 2023-09-05

EAN / UPC / JAN : 197532981621

End of Support : 2028-06-13

intel

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 results with current Lenovo storage offerings.

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

[4] The system dimensions may vary depending on configurations.

[5] 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.

[6] Wi-Fi 6 full features might be limited by country-level restrictions. Bluetooth 5.2 is hardware ready but may run at a lower version due to OS limitations.

[7] For more compatible accessory solutions, please visit

· Lenovo reserves the right to change specifications without notice.

To see more note information, please link to

<https://psref.lenovo.com/Detail/197?M=82SA00K4FR>

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### REAL PERSON

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## Accidental Damage Protection - Protection of your PC from the unexpected.

Experience shows that a significant portion of devices may be damaged (and not covered under warranty) in the first three years. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty such as drops, spills, bumps and even electrical surges. Make sure your new device has maximum protection, avoid unplanned costs and get peace of mind.

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## Warranty Extensions & Upgrades – Service and protection that's right for your circumstances.

- Pick Up & Return Courier
- Technician Installed Customer
- Onsite Support
- Replaceable Unit Service
- International Warranty Upgrade

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## Recommended Accessories



### ThinkPad Hybrid USB-C with USB-A Dock (American Standard Plug Type B)

40AF0135US

- The ThinkPad Hybrid USB-C with USB-A dock is a productivity solution for any USB-C or USB-A laptop, including non-Lenovo laptops from Dell, HP, and Apple, providing power, display, and port expansion in any m...



### Lenovo Powered USB-C Travel Hub

4X90S92381

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

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

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