

# IdeaPad Gaming 3 16IAH7 82SA00B6IX

## PSREF

Product Specifications  
Reference

### PERFORMANCE

#### Processor

Intel® Core™ i7-12700H, 14C (6P + 8E) / 20T, P-core 2.3 / 4.7GHz, E-core 1.7 / 3.5GHz, 24MB

#### Graphics

NVIDIA® GeForce RTX™ 3060 6GB GDDR6, Boost Clock 1425MH, TGP 105W

#### Chipset

Intel SoC Platform

#### Memory

2x 8GB SO-DIMM DDR4-3200

#### Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

#### Max Memory

Up to 16GB DDR4-3200 offering

#### Storage

1TB SSD M.2 2280 PCIe® 3.0x4 NVMe®

#### Storage Support

Up to two drives, 2x M.2 SSD

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

#### Storage Slot

Two M.2 slots

- One M.2 2242 PCIe Gen 4x4 slot, supports M.2 2242 SSD
- One M.2 2280 PCIe Gen 4x4 slot, supports M.2 2242/2280 SSD

#### 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

#### Max Battery Life

MobileMark® 2018: 7 hr

Local video (1080p) playback@150nits: 10 hr

#### Power Adapter

230W Slim Tip (3-pin)

### DESIGN

#### Display

16" WQXGA (2560x1600) IPS 500nits Anti-glare, 165Hz, 100% sRGB, DC dimmer

#### Touchscreen

None

#### Keyboard

4-Zone RGB Backlit, Italian

#### Case Color

Onyx Grey

#### Surface Treatment

Painting

#### Case Material

PC + ABS (Top), PC + ABS (Bottom)

#### Dimensions (WxDxH)

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

#### Weight

Around 2.6 kg (5.7 lbs)

### SOFTWARE

#### Operating System

Windows® 11 Home 64, Italian / English

#### Bundled Software

Office Trial

### CONNECTIVITY

#### Ethernet

100/1000M

#### WLAN + Bluetooth®

Wi-Fi® 6 11ax, 2x2 + BT5.1

#### Standard Ports

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

#### Optional Ports (configured)

1x USB-C® 3.2 Gen 2 (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4, for RTX 3060 graphics models)

### SECURITY & PRIVACY

#### Security Chip

Firmware TPM 2.0

#### Fingerprint Reader

None

#### Other Security

Camera privacy shutter

### SERVICE

#### Base Warranty

2-year, Depot

#### Included Upgrade

<= 3 Months Premium Care (5WS1E19595)

### ACCESSORIES

#### Bundled Accessories

None

### CERTIFICATIONS

#### Green Certifications

- ErP Lot 3
- RoHS compliant

### MODEL

TopSeller : Yes

EAN / UPC / JAN : 196801176546

Announce Date : 2022-06-22

End of Support : 2028-06-13



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- Lenovo reserves the right to change specifications or other product information without notice.
- Product image on this page is a sample, it may not match the real color of this model
- Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences

## Premium Care - Advanced Support from Real People. Real Fast.

### REAL PERSON

Choose how you want to reach us - through the phone, chat or email - our expert technicians will take care of you.

### HASSLE FREE

'Getting started' and 'how-to' assistance for hardware and software. Easy solutions that are simple to reach - that's how Premium Care delivers you the ideal support experience.

### REAL FAST

Highly trained technicians will provide you real-time solutions, whatever the issue, on your first contact. If needed, our team will schedule an onsite visit for the next business day.

### PC HEALTH CHECK

Free annual PC Health Check that allows our experts to spot issues before you do so they can resolve them quickly and help you avoid PC problems.

## 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.

## Base Warranty – Included with the systems you purchase, default 1- or 3-year coverage window.

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

- Pick Up & Return Courier
- Onsite Support
- Technician Installed Customer
- 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 expands the capabilities of most any laptop, new or old, making it perfect for enterprise customers with mixed-PC or shared-desk environments. Featuring enterprise-class manag...

### 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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