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GIGABYTE AORUS 16X ASG-53USC64SH

GIGABYTE AORUS 16X (2024) Gaming Laptop User Manual

Model: AORUS 16X ASG-53USC64SH

Brand: GIGABYTE

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your GIGABYTE AORUS 16X (2024) Gaming Laptop. Please read these instructions carefully before operating the device and retain them for future reference. This laptop is designed for high-performance gaming and demanding creative tasks, featuring advanced components and cooling technology.

2. PRODUCT OVERVIEW

Key Features

- Processor:** Intel Core i7-14650HX Processor 5.2 GHz
- Graphics:** NVIDIA GeForce RTX 4070 Laptop GPU 8GB GDDR6
- Memory:** 32GB DDR5 5600 RAM (16GB x 2)
- Storage:** 1TB Gen4 M.2 SSD
- Display:** 16-inch IPS WQXGA (2560x1600) 165Hz, 3ms response time, 100% sRGB, TÜV Rheinland Certified
- Operating System:** Windows 11 Home AD
- Wireless Connectivity:** Intel Wi-Fi 7, Bluetooth V5.4
- Battery:** 99Wh Lithium Polymer
- Dimensions:** 14.01 x 10 x 1.06 inches
- Weight:** 8.58 pounds

External Components and Ports



Figure 2.1: Side view of the laptop highlighting various ports and connectors.

- **Left Side:** Audio Jack (mic/headphone combo), MicroSD (UHS-II) card reader, Type-C (USB 3.2 Gen2, DisplayPort 1.4), Type-A (USB 3.2 Gen2)
- **Right Side:** Type-C (Thunderbolt 4), Type-A (USB 3.2 Gen2), HDMI 2.1, RJ-45 (Ethernet), DC-in (Power)



Figure 2.2: Top-down view of the laptop, showcasing the keyboard with per-key RGB backlighting and the touchpad.



Figure 2.3: Rear view of the laptop, showing the exhaust vents and customizable RGB lighting strip.

3. SETUP

Initial Power-On

1. Unpack the laptop, power adapter, and power cord from the box.
2. Connect the power cord to the power adapter, then plug the adapter into the DC-in port on the right side of the laptop.
3. Plug the power cord into a grounded electrical outlet.
4. Open the laptop lid and press the power button, located above the keyboard, to turn on the device.

Windows 11 Setup

Follow the on-screen instructions to complete the initial setup of Windows 11 Home AD. This includes selecting your region, language, connecting to a network, and creating a user account. Ensure you have an active internet connection for updates and driver installations.

4. OPERATING YOUR LAPTOP

Keyboard and Touchpad

The laptop features a full-size keyboard with per-key RGB backlighting. You can customize the lighting effects and colors through the pre-installed GIGABYTE control software. The precision touchpad supports multi-touch gestures for intuitive navigation.

Display Settings

The 16-inch WQXGA (2560x1600) IPS display offers a 165Hz refresh rate for smooth visuals. To adjust display settings, right-click on the desktop and select 'Display settings'. Here you can change resolution, refresh rate, and scaling options. The display is TÜV Rheinland Certified for reduced blue light emission, enhancing eye comfort during extended use.

WINDFORCE Infinity Cooling Technology

The WINDFORCE Infinity cooling system is designed to maintain optimal performance during intensive tasks. It intelligently manages fan speeds and heat dissipation. You can monitor and adjust cooling profiles via the GIGABYTE control software to balance performance and acoustics.

AI Nexus Features

The integrated AI Nexus enhances various aspects of your laptop experience:

- **AI Power Gear:** Dynamically switches between integrated and discrete GPUs to optimize battery life and power management.
- **AI Boost:** Utilizes a pre-trained AI model to automatically detect foreground applications and adjust CPU, GPU, and fan configurations for higher performance.
- **AI Generator:** Provides quick access to generative-AI applications through a user-friendly interface.

5. MAINTENANCE

Cleaning

- Use a soft, lint-free cloth to clean the screen and exterior surfaces.
- For stubborn smudges, lightly dampen the cloth with water or a screen-safe cleaner.
- Avoid spraying liquids directly onto the laptop.
- Regularly clean the keyboard and vents to prevent dust buildup, which can affect cooling performance.

Battery Care

To prolong battery life:

- Avoid fully discharging the battery frequently.
- Store the laptop in a cool, dry place if not used for extended periods.
- For optimal battery health, keep the charge between 20% and 80% when possible.

Software Updates

Regularly update your operating system, drivers, and GIGABYTE software to ensure optimal performance, security, and compatibility. These updates often include performance enhancements and bug fixes.

Storage Upgrades

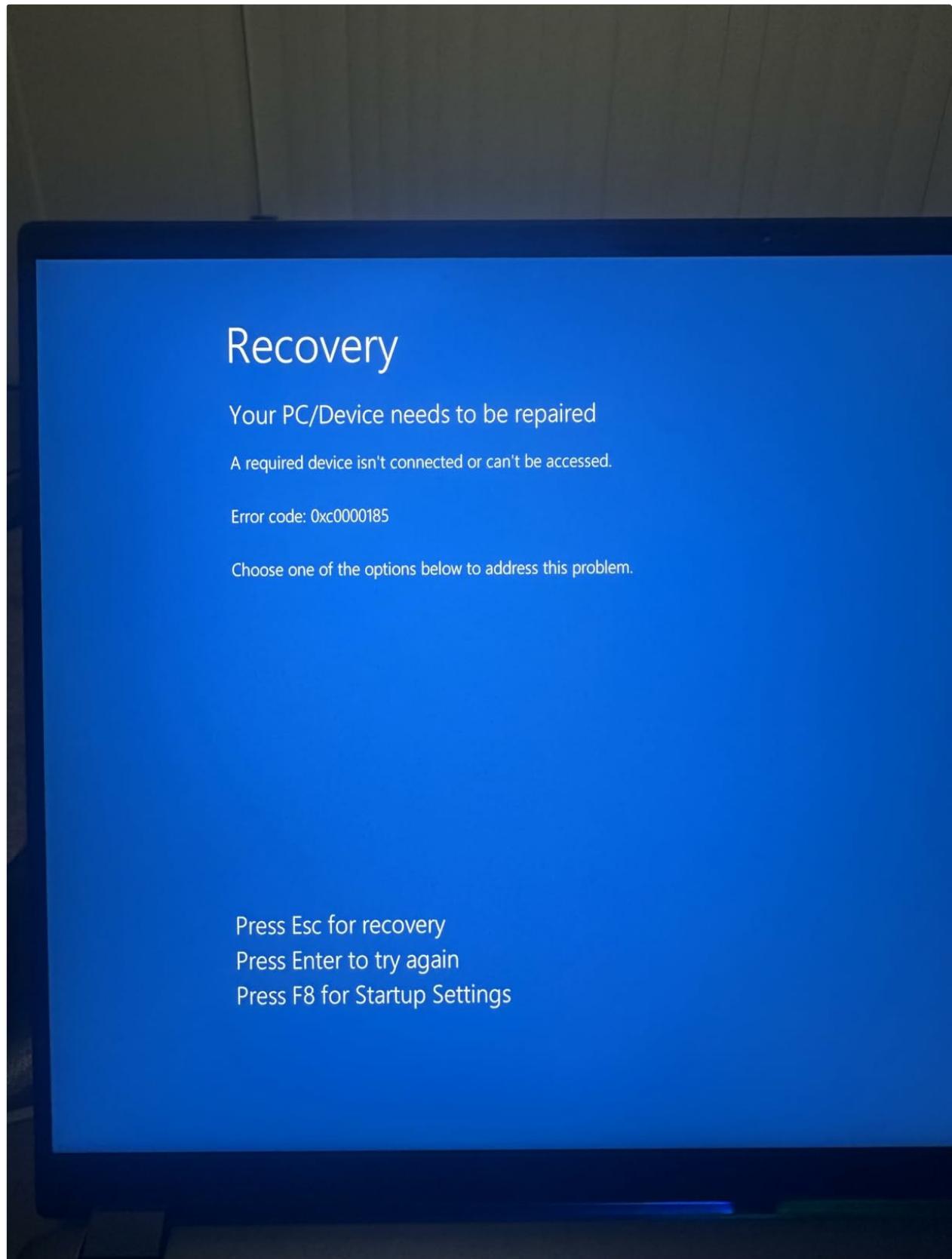


Figure 5.1: Internal view of the laptop, showing the battery, SSD slots, and RAM modules. Note the accessible layout for potential upgrades.

The laptop is designed with accessible internal components for potential upgrades, such as adding a second SSD. Refer to the official GIGABYTE support documentation or a qualified technician for detailed instructions on hardware upgrades to avoid voiding your warranty.

6. TROUBLESHOOTING

If you encounter issues with your GIGABYTE AORUS 16X laptop, consider the following common solutions:

- **No Power:** Ensure the power adapter is securely connected to both the laptop and a working electrical outlet. Check the power indicator light.
- **Display Issues:** If the screen is blank or flickering, try connecting an external monitor to verify if the issue is with the laptop's display or the graphics output. Update graphics drivers.
- **Performance Slowdown:** Check for background applications consuming excessive resources. Ensure the cooling vents are clear of obstructions. Update drivers and operating system.
- **Connectivity Problems:** For Wi-Fi or Bluetooth issues, try restarting the laptop and your router. Ensure drivers are up to date.

For more detailed troubleshooting guides or persistent issues, visit the official GIGABYTE support website or contact their customer service.

7. SPECIFICATIONS

Component	Specification
Processor	Intel Core i7-14650HX (5.2 GHz)
RAM	32 GB DDR5 5600 MHz
Hard Drive	1 TB SSD (Gen4 M.2)
Graphics Coprocessor	NVIDIA GeForce RTX 4070
Graphics Card RAM Size	8 GB GDDR6
Screen Size	16 Inches
Screen Resolution	2560 x 1600 pixels (WQXGA)
Refresh Rate	165 Hz
Operating System	Windows 11 Home
Wireless Type	802.11ax (Wi-Fi 7), Bluetooth V5.4
USB 3.0 Ports	2
Item Weight	8.58 pounds
Product Dimensions	14.01 x 10 x 1.06 inches
Battery	1 Lithium Polymer (99Wh)

8. WARRANTY AND SUPPORT

Your GIGABYTE AORUS 16X (2024) Gaming Laptop comes with a manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official GIGABYTE website for detailed warranty terms and conditions specific to your region.

For technical support, driver downloads, and additional resources, please visit the official GIGABYTE support page: www.gigabyte.com/Support

What's in the Box:

- GIGABYTE AORUS 16X Gaming Laptop
- Battery Pack and Charger