

## GIGABYTE GV-N408SAERO OC-16GD

# GIGABYTE NVIDIA GeForce RTX 4080 SUPER AERO OC 16GB Graphics Card User Manual

Model: GV-N408SAERO OC-16GD

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your GIGABYTE NVIDIA GeForce RTX 4080 SUPER AERO OC 16GB graphics card. Please read this manual thoroughly before installation to ensure proper usage and optimal performance.

The GIGABYTE GeForce RTX 4080 SUPER AERO OC is a high-performance graphics card designed for demanding gaming and creative applications. It features the NVIDIA Ada Lovelace architecture, 16GB of GDDR6X memory, and advanced cooling solutions to deliver exceptional visual fidelity and speed.

## 2. SAFETY INFORMATION

- Always disconnect power from your computer before installing or removing any components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure proper grounding to prevent electrostatic discharge (ESD) damage.
- Install the card in a well-ventilated computer case to prevent overheating.
- Do not attempt to repair the card yourself. Refer to qualified service personnel.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- GIGABYTE NVIDIA GeForce RTX 4080 SUPER AERO OC 16GB Graphics Card
- 1x 16-pin to 3x 8-pin power adapter
- Quick Guide (this document serves as a detailed manual)

## 4. SETUP AND INSTALLATION

## 4.1 Physical Installation

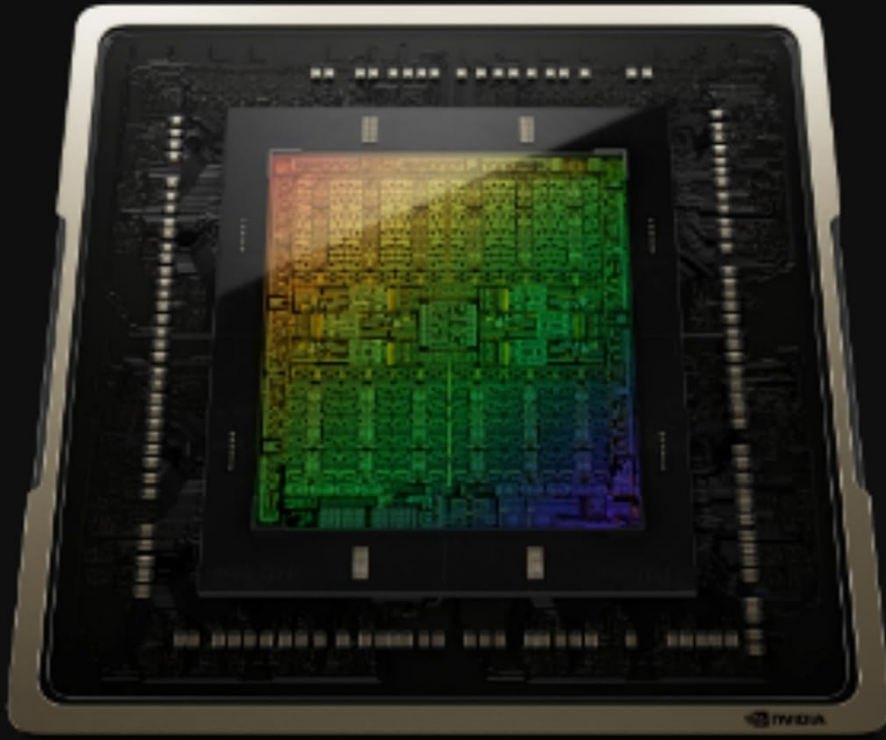
1. **Prepare Your System:** Power off your computer and disconnect all cables. Open the computer case.
2. **Locate PCIe Slot:** Identify an available PCI-Express x16 slot on your motherboard. Remove any expansion slot covers.
3. **Install the Graphics Card:** Carefully align the graphics card with the PCIe slot and press it down firmly until it is securely seated. Secure the card with the case screw.
4. **Connect Power:** Connect the 16-pin power connector from your power supply to the graphics card. If your power supply does not have a native 16-pin connector, use the included 16-pin to 3x 8-pin adapter. Ensure all connections are firm.
5. **Close Case and Reconnect:** Close your computer case and reconnect all cables.



Image: Front view of the GIGABYTE RTX 4080 SUPER AERO OC graphics card, showcasing its triple-fan cooling system.

# ゲーマーとクリエイターのための最先端プラットフォーム

NVIDIA Ada Lovelace アーキテクチャ  
革新的な AI グラフィックス技術 DLSS 3 を搭載



*Image: Rear I/O ports of the graphics card, featuring DisplayPort and HDMI outputs for display connectivity.*

## 4.2 Driver Installation

1. **Power On:** Power on your computer.
2. **Download Drivers:** Visit the official GIGABYTE website or NVIDIA's website to download the latest drivers for your GeForce RTX 4080 SUPER graphics card.
3. **Install Drivers:** Follow the on-screen instructions to install the drivers. A system restart may be required.

## 5. OPERATING INSTRUCTIONS

### 5.1 Display Connection

Connect your display monitor(s) to the graphics card's DisplayPort or HDMI outputs. This card supports DisplayPort 1.4a and HDMI 2.1.

### 5.2 GIGABYTE Control Center

The GIGABYTE Control Center software provides an intuitive interface for managing your graphics card. You can

adjust various parameters such as clock speed, voltage, and fan modes in real-time. It also allows customization of RGB lighting effects and synchronization with other AORUS devices.



*Image: GIGABYTE Control Center interface, showing options for RGB Fusion, fan control, and performance monitoring.*



*Image: Close-up of the RGB Fusion lighting on the graphics card, highlighting customizable illumination.*

## 6. MAINTENANCE

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### 6.1 Cooling System

The GIGABYTE RTX 4080 SUPER AERO OC features the WINDFORCE cooling system, which includes 110mm original blade fans, composite copper heat pipes, a large copper plate direct-touch GPU, 3D active fans, and screen cooling. This design ensures high-efficiency heat dissipation.



*Image: Overview of the WINDFORCE cooling system, illustrating the fan design and heat pipe integration for efficient thermal management.*

The large copper plate directly contacts the GPU and VRAM, working with composite heat pipes to efficiently transfer heat to the heatsink. The extended heatsink design, known as Screen Cooling, allows airflow to pass through, further enhancing heat dissipation.



*Image: Internal view showing the large copper plate and heat pipes designed for direct contact with the GPU and VRAM.*



*Image: Diagram demonstrating the screen cooling feature, where airflow passes through the extended heatsink for improved thermal performance.*

### 6.2 Cleaning

Periodically clean the fans and heatsink fins to ensure optimal airflow. Use compressed air to remove dust. Do not use liquid cleaners directly on the card.

### 6.3 Metal Backplate

The graphics card is equipped with a metal backplate. This backplate not only contributes to the card's aesthetic appeal but also reinforces the PCB's rigidity and protects internal components from physical impact.



*Image: Detailed view of the metal backplate, highlighting its protective and structural role for the graphics card.*

## 7. TROUBLESHOOTING

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### • No Display Output:

- Ensure the graphics card is fully seated in the PCIe slot.
- Verify that the 16-pin power connector is securely attached.
- Check display cable connections to both the card and monitor.

- Try a different display output port or cable.
- **System Instability/Crashes:**
  - Ensure the latest graphics drivers are installed.
  - Check for adequate power supply wattage.
  - Monitor GPU temperatures using GIGABYTE Control Center to prevent overheating.
- **Fan Noise/Malfunction:**
  - Clean dust from fans and heatsink.
  - Verify fan settings in GIGABYTE Control Center.

## 8. SPECIFICATIONS

Feature	Detail
Graphics Processing Unit	NVIDIA GeForce RTX 4080 SUPER
Core Clock	Boost Clock 2,595 MHz
Memory Size	16 GB
Memory Type	GDDR6X
Memory Bus	256-bit
Memory Clock	23 Gbps
Card Dimensions (L x W x H)	342 x 150 x 75 mm
Interface	PCI-Express 4.0 x16
Video Output	3x DisplayPort 1.4a, 1x HDMI 2.1
Maximum Digital Resolution	7680 x 4320
Power Connectors	1x 16-pin

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

This product comes with a 2-year authorized dealer warranty. Additionally, GIGABYTE offers an extended 2-year manufacturer warranty for registered members, totaling up to 4 years of coverage. Please refer to the GIGABYTE official website for detailed warranty terms and registration procedures.

### 9.2 Technical Support

For technical assistance, driver updates, or further product information, please visit the official GIGABYTE website:

[GIGABYTE Official Website](#)

You can also find additional resources and contact information on the GIGABYTE brand store page on Amazon:

[GIGABYTE Amazon Brand Store](#)

