

GIGABYTE GV-N408SGAMING OC-16GD

GIGABYTE GeForce RTX 4080 Super Gaming OC 16G Graphics Card User Manual

Model: GV-N408SGAMING OC-16GD

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your GIGABYTE GeForce RTX 4080 Super Gaming OC 16G Graphics Card. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.



Image 1.1: GIGABYTE GeForce RTX 4080 Super Gaming OC 16G Graphics Card with packaging. This image displays the graphics card alongside its retail box, highlighting the product's design and branding.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- GIGABYTE GeForce RTX 4080 Super Gaming OC 16G Graphics Card
- 16-pin power cable x1
- User Manual (this document)
- VGA Support Kit (Anti-Sag Bracket)

3. SYSTEM REQUIREMENTS

Before installing the graphics card, ensure your system meets the following minimum requirements:

- **PCI Express-compliant motherboard:** With one PCI Express x16 slot.
- **Power Supply Unit (PSU):** A minimum of 750W or higher is recommended. Ensure your PSU has at least one 16-pin (12VHPWR) power connector or sufficient 8-pin PCIe connectors to use the included

adapter.

- **Operating System:** Microsoft Windows 10 64-bit or later (Windows 11 recommended).
- **System Memory (RAM):** 8GB system memory (16GB or more recommended).
- **Display:** Monitor with DisplayPort or HDMI input.
- **Internet Connection:** For driver installation and software updates.

4. INSTALLATION

4.1 Physical Installation

1. **Prepare your system:** Power off your computer and disconnect all cables. Open the computer case.
2. **Locate the PCIe x16 slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.
3. **Install the graphics card:** Carefully align the graphics card with the PCIe x16 slot and press it firmly until it is securely seated. Ensure the retention clip on the motherboard slot locks into place.
4. **Secure the card:** Fasten the graphics card to the computer case with screws.
5. **Install the VGA Support Kit:** Due to the size and weight of the card, it is highly recommended to install the included VGA Support Kit (anti-sag bracket) to prevent GPU sag and potential damage to the PCIe slot. Follow the instructions provided with the support kit for proper installation.



Image 4.1: Angled view of the GIGABYTE GeForce RTX 4080 Super Gaming OC 16G Graphics Card. This image provides a perspective of the card's overall structure, including its triple-fan design and heatsink.



Image 4.2: Top-down view of the graphics card with approximate dimensions (13.46" length, 5.91" width). This view is critical for checking case compatibility and clearance.

4.2 Power Connection

Connect the included 16-pin power cable to the corresponding power connector on the graphics card. Ensure the connection is firm and fully seated. If your PSU does not have a native 16-pin connector, use the provided adapter to connect multiple 8-pin PCIe power cables from your PSU to the graphics card's 16-pin input.

4.3 Display Connection

Connect your monitor(s) to the graphics card's DisplayPort or HDMI outputs. This card supports up to 4 monitors simultaneously.

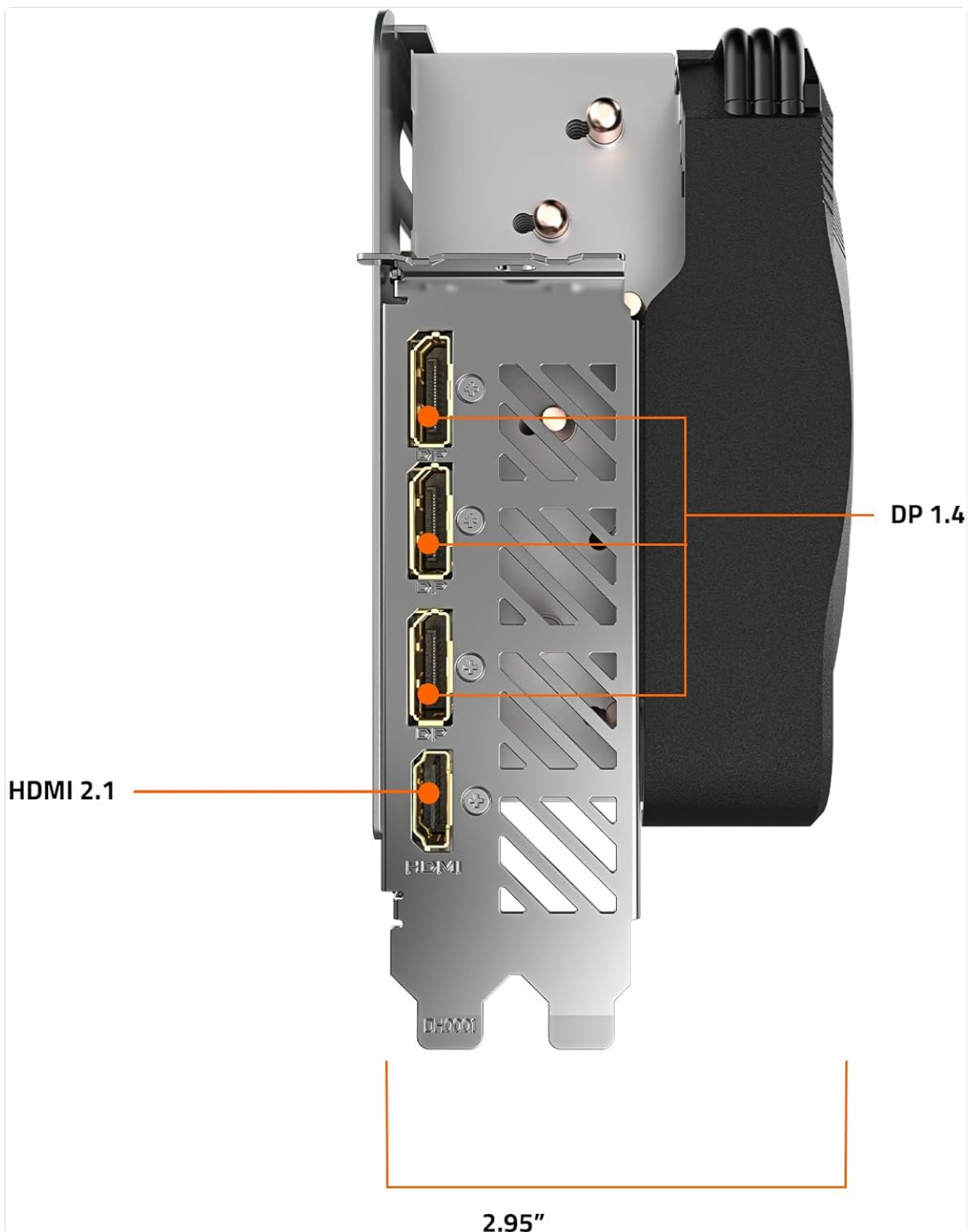


Image 4.3: Rear view of the graphics card showing the display output ports, including HDMI 2.1 and DisplayPort 1.4a. This image illustrates the available connectivity options for monitors.

4.4 Driver Installation

1. After physical installation, power on your computer.
2. Visit the official NVIDIA website (www.nvidia.com/drivers) to download the latest drivers for your GeForce RTX 4080 Super graphics card.
3. Follow the on-screen instructions to complete the driver installation. A restart may be required.
4. For additional utilities and monitoring software, visit the GIGABYTE official website to download GIGABYTE Control Center or AORUS Engine.

5. OPERATION

Once drivers are installed, your graphics card is ready for use. The GIGABYTE GeForce RTX 4080 Super Gaming OC 16G is designed for high-performance gaming and demanding creative applications.

- **NVIDIA Control Panel:** Access the NVIDIA Control Panel (usually via right-click on desktop) to adjust display settings, 3D settings, and manage multiple displays.
- **GIGABYTE Software:** Utilize GIGABYTE's proprietary software (e.g., GIGABYTE Control Center) for monitoring card status, adjusting fan speeds, and customizing RGB lighting effects.
- **Gaming and Applications:** Ensure your games and applications are updated to leverage the full capabilities of the RTX 4080 Super, including features like DLSS 3 and Ray Tracing.



Image 5.1: Close-up view of the WINDFORCE triple-fan cooling system. This system is designed for efficient heat dissipation, crucial for maintaining optimal performance during intensive tasks.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your graphics card:

- **Dust Removal:** Regularly clean dust from the fans and heatsink using compressed air. Ensure the system is powered off before cleaning.
- **Airflow:** Maintain good airflow within your computer case. Ensure case fans are properly configured to exhaust hot air and intake cool air.
- **Driver Updates:** Keep your graphics drivers updated to benefit from performance improvements and bug fixes.
- **Temperature Monitoring:** Use GIGABYTE or third-party software to monitor GPU temperatures, especially during heavy loads, to prevent overheating.

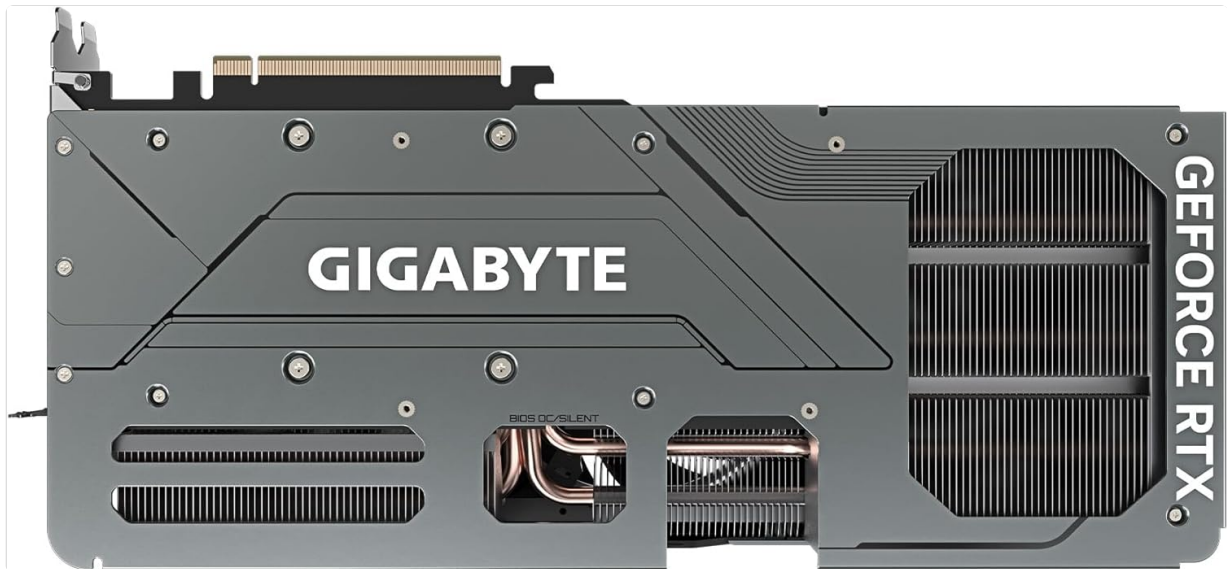


Image 6.1: Rear view of the graphics card, showcasing the protective backplate. The backplate aids in structural rigidity and heat dissipation.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **No Display Output:**

- Ensure the monitor cable is securely connected to both the graphics card and the monitor.
- Verify that the graphics card is fully seated in the PCIe slot.
- Check that all power cables are correctly connected to the graphics card and the power supply. Insufficient power can prevent the card from initializing.
- Test with a different display cable or monitor if possible.

- **System Fails to Boot or Shuts Down:**

- Confirm your Power Supply Unit (PSU) meets the recommended wattage (750W or higher) and has sufficient power connectors. An underpowered PSU can cause instability.
- Ensure the 16-pin power cable is fully inserted into the graphics card and the PSU. Loose connections can lead to power delivery issues.
- Check for any loose components or short circuits within the case.

- **Driver Installation Issues:**

- Download the latest drivers directly from the official NVIDIA website.
- Uninstall any previous graphics drivers using a utility like Display Driver Uninstaller (DDU) before attempting a fresh installation.
- Temporarily disable antivirus software during driver installation.

- **Poor Performance in Games/Applications:**

- Ensure you have the latest graphics drivers installed.
- Check in-game settings; some settings may be too demanding for your current resolution or refresh rate.
- Monitor GPU temperature and utilization to identify potential thermal throttling or bottlenecks.
- Verify that your monitor is connected to the graphics card and not the motherboard's integrated

graphics.

8. SPECIFICATIONS

Feature	Detail
Graphics Processing Unit	NVIDIA GeForce RTX 4080 SUPER
Video Memory	16 GB GDDR6X
Memory Speed	23000 MHz
Digital Max Resolution	7680 x 4320
Multi-Display Support	4 Monitors
Video Output Interface	DisplayPort, HDMI
API Support	OpenGL 4.6, DirectX 12 Ultimate
Recommended PSU	750W
Power Connectors	16-pin x1
Dimensions (LxWxH)	13.46 x 5.9 x 0.1 inches (approximate, actual thickness is greater than 0.1 inches due to cooler)
Item Weight	5.71 pounds



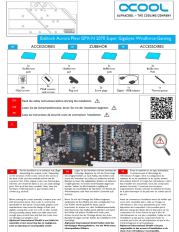

9. WARRANTY AND SUPPORT

GIGABYTE products are designed for reliability and performance. This graphics card typically comes with a manufacturer's warranty. Based on product information, a 4-year warranty may be offered by GIGABYTE/AORUS. Please refer to the official GIGABYTE website or your product registration for specific warranty terms and conditions applicable to your region.

For technical support, driver downloads, and further information, please visit the official GIGABYTE support website:

www.gigabyte.com/Support

When contacting support, please have your product model number (GV-N408SGAMING OC-16GD) and serial number ready.

	<p>Alphacool Core GeForce RTX 4080 Strix + TUF Water Cooling Block with Backplate</p> <p>Detailed information on the Alphacool Core GeForce RTX 4080 Strix + TUF water cooling block, featuring high-quality construction, optimized performance, digital aRGB illumination, and compatibility with specific ASUS GPU models. Includes technical specifications, scope of delivery, and dimensions.</p>
	<p>GIGABYTE Graphics Card Quick Guide: Installation and Setup</p> <p>Concise guide for installing and setting up GIGABYTE graphics cards, covering hardware installation, software setup, connector types, and RoHS compliance.</p>
	<p>Palit GeForce RTX 3070 User Manual and Utilities</p> <p>Official user manual for Palit GeForce RTX 3070 graphics cards, detailing driver installation and the ThunderMaster utility for monitoring and overclocking. Includes product certification statements.</p>
	<p>Alphacool Eisblock Aurora Plexi GPX-N 2070 Super Gigabyte Windforce-Gaming Installation Guide</p> <p>Comprehensive installation guide for the Alphacool Eisblock Aurora Plexi GPX-N 2070 Super water cooling block, designed for Gigabyte Windforce-Gaming RTX 2070 Super graphics cards. Includes detailed steps, accessory list, safety warnings, and warranty information.</p>
	<p>GIGABYTE AORUS GeForce RTX 3070 MASTER 8G (rev. 2.0) LHR Graphics Card Overview</p> <p>Comprehensive guide to the GIGABYTE AORUS GeForce RTX 3070 MASTER 8G (rev. 2.0) LHR graphics card, detailing its advanced cooling, performance features, and specifications for gamers and creators.</p>
	<p>Palit Graphics Card User Manual and Software Utilities</p> <p>Official user manual for Palit graphics cards, detailing driver downloads and the ThunderMaster utility for monitoring and overclocking. Includes product certification statements.</p>



Karta VGA Gigabyte GeForce RTX 4080 Super GAMING OC 16GB GDDR6X 256bit HDMI+3xDP PCIe4.0

Indeks: 370272 Producent: GIGABYTE Kod producenta: GV-N408SGAMING OC-16GD

Cena: 5,858.82 zł

Opis

Karta VGA Gigabyte GeForce RTX 4080 Super GAMING OC 16GB GDDR6X 256bit HDMI+3xDP PCIe4.0

Parametry

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Gigabyte GeForce RTX 4080 SUPER GAMING OC 16G

OC Edition - Grafikkarten - NVIDIA GeForce RTX 4080 SUPER - 16 GB GDDR6X - PCIe 4.0 - HDMI - 3 x DisplayPort

Gruppe

Hersteller

Hersteller Art. Nr.

EAN/UPC

Grafikkarten

Gigabyte

GV-N408SGAMING OC-16GD

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Beschreibung

Gigabyte GeForce RTX 4080 SUPER GAMING OC 16G - OC Edition - Grafikkarten - NVIDIA GeForce RTX 4080 SUPER - 16 GB GDDR6X - PCIe 4.0 - HDMI - 3 x DisplayPort

Hauptmerkmale

Produktbeschreibung	Gigabyte GeForce RTX 4080 SUPER GAMING OC 16G - OC Edition - Grafikkarten - NVIDIA GeForce RTX 4080 SUPER - 16 GB
Leistungstyp	Grafikkarten
Bauform	PCI Express 4.0
Grafikprozessor	NVIDIA GeForce RTX 4080 SUPER
Arbeitsspeicher	16 GB GDDR6X
Speichertechnologie	23 Gbps
Core Clock	2395 MHz
CUDA Kerne	10240
Speicheranforderungen	256-bit
Max. Auflösung	7680 x 4320
Anzahl der max. unterstützten Bildschirme	4
Schnittstellen	3 x DisplayPort HDMI
API-Unterstützung	OpenGL 4.6, DirectX 12 Ultimate
Abmessungen (Breite x Tiefe x Höhe)	73 cm x 34,2 cm x 13 cm

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Datenblatt Gigabyte GeForce RTX 4080 SUPER GAMING OC 16GGigabyte 16G Edition Gra kkarten NVIDIA 16 GB GDDR6X PCIe 4 HDMI 3 x DisplayPortdatenblatt 3056785 gigabyte gaming geforce rtx super oc 16g gb gddr6x 256 bit 7680 4320 pixel passet conrad media10 add 160267 c1 de

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Gigabyte GeForce RTX 4080 SUPER GAMING OC 16G OC Edition - Grafikkarten - NVIDIA GeForce RTX 4080 SUPER - 16 GB GDDR6X - PCIe 4.0 - HDMI - 3 x DisplayPort Gruppe Hersteller Hersteller Art. Nr. EAN/UPC Grafikkarten Gigabyte **GV-N408SGAMING OC-16GD** 4719331354190 Beschreibung Gigabyte GeForce RTX 408...

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Gigabyte GeForce RTX 4080 SUPER GAMING OC 16G

OC Edition - Grafikkarten - NVIDIA GeForce RTX 4080 SUPER - 16 GB GDDR6X - PCIe 4.0 - HDMI - 3 x DisplayPort

Gruppe

Hersteller

Hersteller Art. Nr.

EAN/UPC

Grafikkarten

Gigabyte

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CUDA Kerne	10240
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[Gigabyte GeForce RTX 4080 SUPER GAMING OC 16G Graphics Card Specifications](#)

Detailed technical specifications for the Gigabyte GeForce RTX 4080 SUPER GAMING OC 16G graphics card, including core clock, memory, resolution, and connectivity.

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