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GIGABYTE GV-N408SWF3V2-16GD

GIGABYTE GeForce RTX 4080 Super WINDFORCE V2 16G Graphics Card User Manual

Model: GV-N408SWF3V2-16GD

Introduction

The GIGABYTE GeForce RTX 4080 SUPER WINDFORCE V2 16G Graphics Card is a high-performance component designed for gaming and creative applications. Powered by NVIDIA's new RTX architecture, it delivers stunning visuals, fast frame rates, and AI acceleration through its enhanced RT Cores and Tensor Cores, complemented by 16 GB of GDDR6X memory.
This manual provides essential information for the installation, operation, and maintenance of your graphics card, ensuring optimal performance and longevity.

What's in the Box

- Graphics Card
- 16-pin power cable x1
- User Manual
- VGA Support Kit



Figure 1: Contents of the GIGABYTE RTX 4080 Super WINDFORCE V2 16G package.

Setup Guide

Proper installation is crucial for the performance and longevity of your graphics card. Ensure your system meets the minimum requirements before proceeding.

System Compatibility

- **Dimensions:** The card measures approximately 12.99 x 5.35 x 0.1 inches and weighs 4.37 pounds. Verify your PC case has sufficient clearance for installation.
- **Power Supply:** A robust power supply is required. Connect the provided 16-pin power cable securely to the graphics card and your power supply.
- **PCIe Slot:** Insert the graphics card into a compatible PCIe x16 slot on your motherboard.

Installation Steps

1. **Prepare your PC:** Power off your computer and unplug all cables. Open your PC case.
2. **Install the Graphics Card:** Carefully align the graphics card with the PCIe x16 slot and press down firmly until it clicks

into place. Secure the card with the retention clip or screw.

3. **Install VGA Support Kit:** Utilize the included VGA Support Kit to prevent GPU sag, especially important for larger cards like this model.
4. **Connect Power:** Connect the 16-pin power cable from your power supply to the graphics card. Ensure a firm connection.
5. **Close Case & Connect Peripherals:** Close your PC case, reconnect all cables, and connect your display to one of the graphics card's output ports (DisplayPort or HDMI).
6. **Install Drivers:** After booting your system, download and install the latest NVIDIA drivers from the official GIGABYTE or NVIDIA website for optimal performance.



Figure 2: Graphics card dimensions for compatibility check.

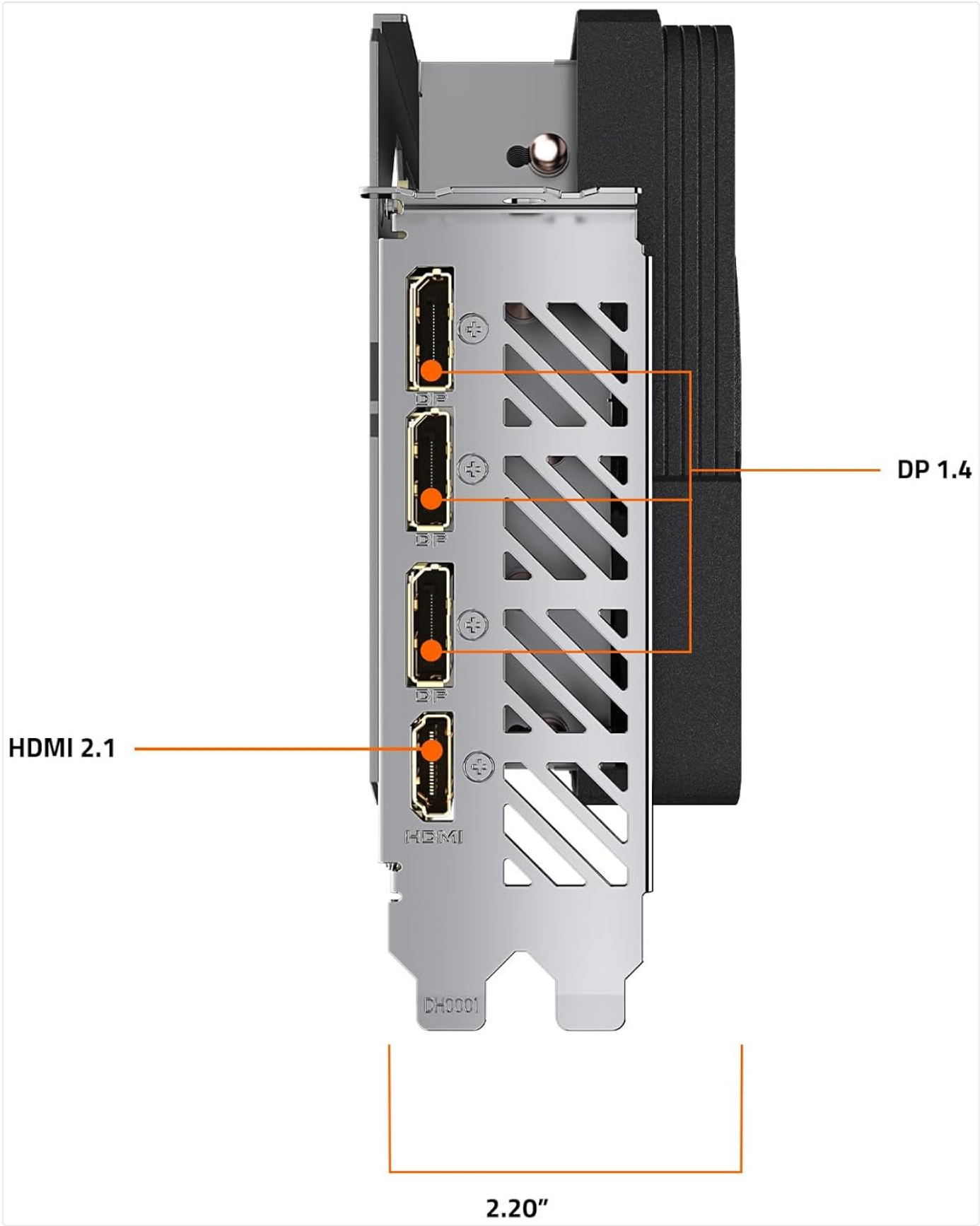


Figure 3: Video output interfaces including DisplayPort 1.4 and HDMI 2.1.

Operating Your Graphics Card

The GIGABYTE RTX 4080 Super WINDFORCE V2 16G is engineered for high-performance computing, particularly in

gaming and demanding graphical tasks.

Key Features and Performance

- **WINDFORCE Cooling System:** Equipped with three WINDFORCE fans, this system ensures efficient heat dissipation, maintaining optimal temperatures even under heavy loads. This contributes to quiet operation.
- **Dual BIOS:** The card features a Dual BIOS switch, allowing users to select between an OC (Overclocking) mode for maximum performance and a Silent BIOS mode for quieter operation. The Silent BIOS typically keeps fans off until temperatures exceed 45°C.
- **NVIDIA RTX Architecture:** Leveraging enhanced RT Cores and Tensor Cores, the card provides advanced ray tracing capabilities for hyperrealistic graphics and AI acceleration for technologies like DLSS 3, significantly boosting frame rates and image quality.
- **16GB GDDR6X Memory:** The substantial 16GB of high-speed GDDR6X memory ensures smooth performance in high-resolution gaming and complex creative applications.
- **Overclocking Potential:** The robust PNY heatsink design allows for potential overclocking of 15-20% beyond factory settings, providing additional performance headroom if needed for future demanding titles.



Figure 4: The WINDFORCE cooling system with three fans.

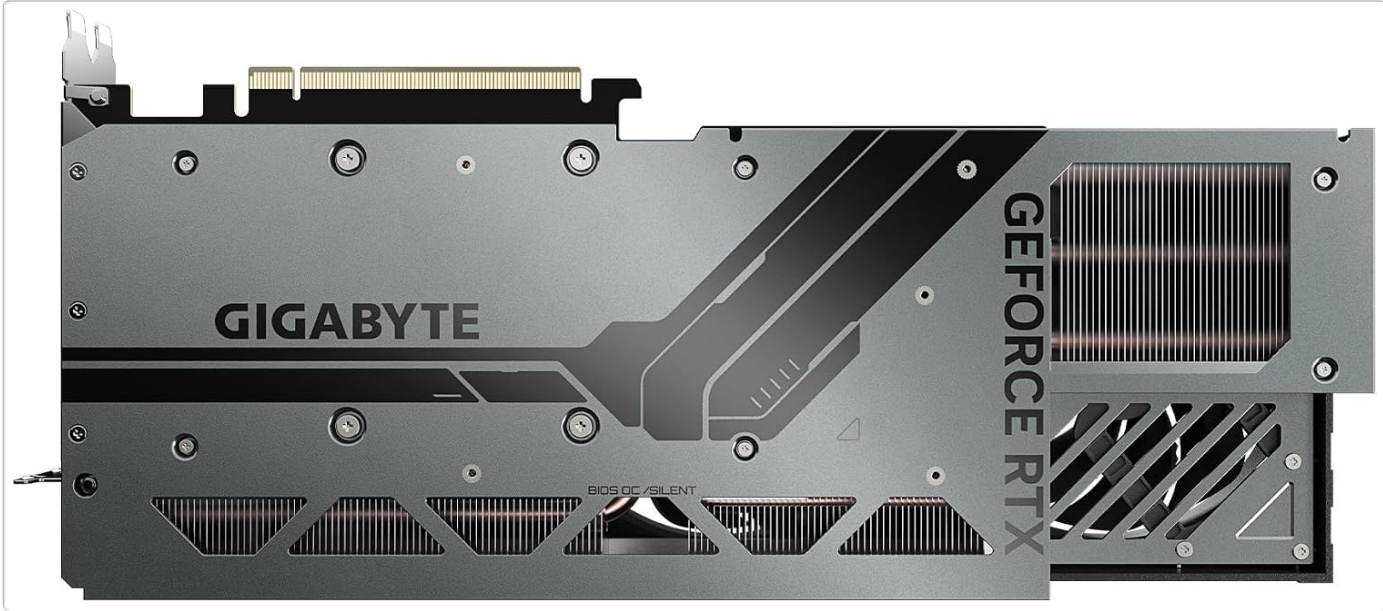


Figure 5: The protection metal back plate for enhanced durability and heat dissipation.

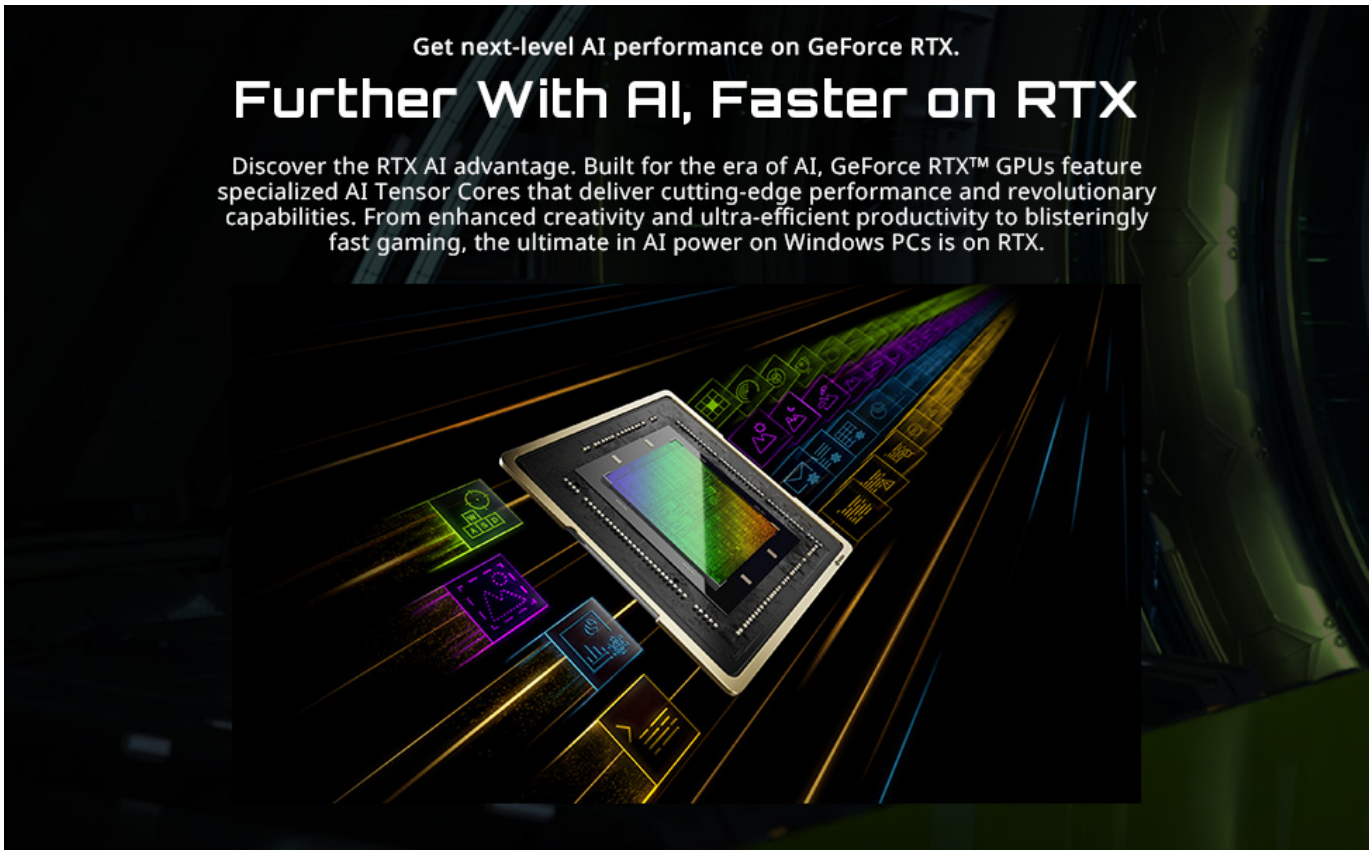


Figure 6: Overview of the GeForce RTX 40 Super Series capabilities for gaming and AI.



Figure 7: NVIDIA Ada Lovelace Architecture designed for superior performance and efficiency.



Figure 8: Ray Tracing capabilities for hyperrealistic and hyperfast rendering.

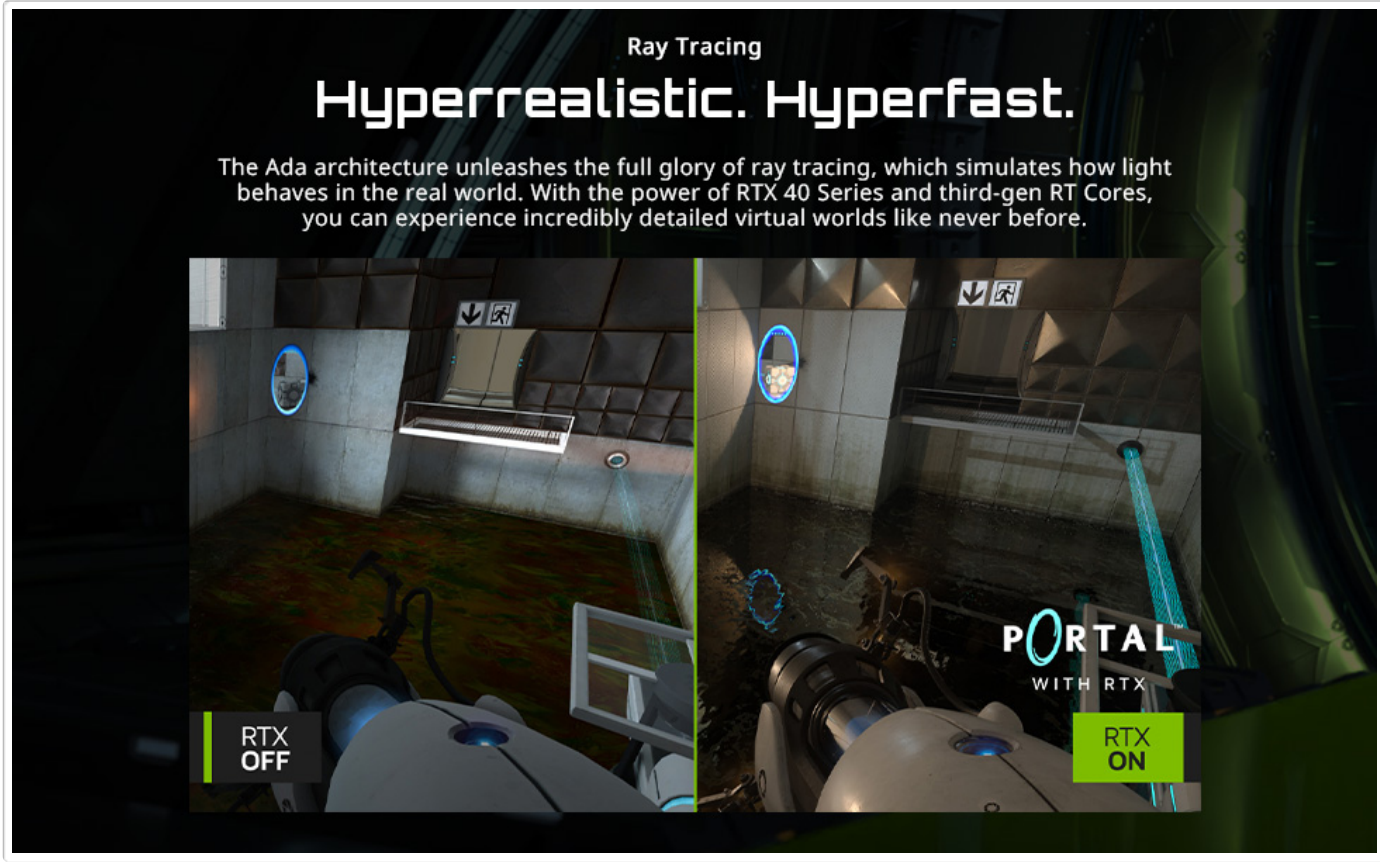


Figure 9: DLSS 3 technology for maximum FPS and quality powered by AI.



Figure 10: The RTX AI advantage for cutting-edge performance and revolutionary capabilities.

Official Product Videos

Official product videos from the seller would be embedded here to demonstrate features and performance. Please note that only videos with "creator_type":"Seller" are included.

Maintenance

Regular maintenance helps preserve the performance and lifespan of your graphics card.

- **Dust Removal:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the PC is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your graphics drivers updated to the latest version from the official NVIDIA or GIGABYTE website. This ensures compatibility with new games and applications, and often includes performance optimizations and bug fixes.
- **Temperature Monitoring:** Use monitoring software to keep an eye on your GPU temperatures during heavy use. Ensure adequate airflow within your PC case.

Troubleshooting

If you encounter issues with your graphics card, consider the following common troubleshooting steps:

- **No Display/Black Screen:**

- Ensure the 16-pin power cable is securely connected to both the GPU and the power supply.
- Verify the display cable is correctly connected to the graphics card and monitor.
- Try a different display output port on the graphics card or a different cable.
- Reseat the graphics card in its PCIe slot.

- **Performance Issues/Low FPS:**
  - Ensure you have the latest graphics drivers installed.
  - Check in-game settings to ensure they are not excessively high for your resolution.
  - Monitor GPU temperatures to prevent thermal throttling. Improve case airflow if temperatures are consistently high.
  - Verify your power supply unit (PSU) meets the recommended wattage for the RTX 4080 Super.
- **Fan Noise/Coil Whine:**
  - Ensure fans are free of obstructions.
  - Switch to the Silent BIOS mode using the physical switch on the card if excessive noise is a concern during light loads.
  - Coil whine can occur under certain loads but typically does not affect performance.

Specifications

Brand	GIGABYTE
Model Number	GV-N408SWF3V2-16GD
Graphics Coprocessor	NVIDIA GeForce RTX 4080 SUPER
Graphics Card RAM Size	16 GB GDDR6X
Memory Speed	2375 MHz
Max Screen Resolution	3840x2160
Video Output Interface	DisplayPort, HDMI
Item Weight	4.37 pounds
Product Dimensions	12.99 x 5.35 x 0.1 inches
Color	Black
Date First Available	January 31, 2024

Warranty and Support

For warranty information and technical support, please refer to the official GIGABYTE website or contact their customer

service directly.
Additional protection plans may be available for purchase:

- **4-Year Protection Plan:** Available for $199.99 (one-time payment).
- **Complete Protect:** One plan covers all eligible past and future purchases for $16.99/month.

Always ensure you are purchasing from authorized retailers to guarantee valid warranty coverage.

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For more information, visit the GIGABYTE Store on Amazon.

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