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> GIGABYTE GeForce RTX 4060 Gaming OC 8G Graphics Card User Manual (Model: GV-N4060GAMING OC-8GD)

## GIGABYTE GV-N4060GAMING OC-8GD

# GIGABYTE GeForce RTX 4060 Gaming OC 8G Graphics Card User Manual

Model: GV-N4060GAMING OC-8GD

Brand: GIGABYTE

## 1. PRODUCT OVERVIEW

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The GIGABYTE GeForce RTX 4060 Gaming OC 8G Graphics Card is designed for high-performance gaming and creative applications. It features NVIDIA's Ada Lovelace architecture, DLSS 3, and advanced ray tracing capabilities. The card is equipped with 8GB of GDDR6 memory and the WINDFORCE cooling system for optimal thermal performance.



Figure 1.1: Top-down view of the GIGABYTE GeForce RTX 4060 Gaming OC 8G Graphics Card.



Figure 1.2: Backplate of the graphics card, showing the reinforced structure.

Video 1.1: Official Product Overview of the GIGABYTE GeForce RTX 4060 Gaming OC 8G Graphics Card.

## 2. SETUP

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### 2.1 Unboxing and Initial Inspection

Carefully remove the graphics card from its packaging. Inspect the card for any visible damage. Ensure all accessories, including the user manual, are present.

### 2.2 System Requirements

- PCI Express® graphics slot required
- Microsoft® Windows® 10/11 64-bit or Linux 64-bit operating system required
- One PCIe 8-pin power connector required
- 450W system power supply required

### 2.3 Hardware Installation

1. Power off your computer and disconnect all cables.
2. Open your computer case.
3. Locate an available PCI Express x16 slot on your motherboard.

4. Remove the necessary expansion slot covers from your computer case.
5. Carefully insert the graphics card into the PCI Express x16 slot until it is firmly seated.
6. Secure the graphics card to the case with screws.
7. Connect the 8-pin PCIe power connector from your power supply to the graphics card.
8. Close your computer case.
9. Connect your display cable (HDMI or DisplayPort) to the graphics card.



Figure 2.1: Graphics card display output ports (3x DisplayPort, 1x HDMI).



Figure 2.2: Detailed view of the graphics card ports, indicating HDMI 2.1a and DisplayPort 1.4a.

Video 2.1: Demonstration of installing the GIGABYTE GeForce RTX 4060 OC in a mid-tier PC setup.

## 3. OPERATING

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### 3.1 Driver Installation

After hardware installation, power on your computer. Windows will typically detect the new hardware. Download the latest graphics drivers from the official NVIDIA website ([www.nvidia.com/drivers](http://www.nvidia.com/drivers)) or the GIGABYTE support page. Follow the on-screen instructions to complete the driver installation.

### 3.2 Software Configuration

Utilize the NVIDIA Control Panel or GeForce Experience software to optimize game settings, manage display configurations, and enable features like NVIDIA DLSS and Ray Tracing for enhanced visual fidelity and performance.

## NVIDIA REFLEX

# Victory measured in milliseconds.

NVIDIA Reflex and GeForce RTX 40 Series GPUs deliver the lowest latency and best responsiveness for the ultimate competitive advantage. Built to optimize and measure system latency, Reflex provides faster target acquisition, quicker reaction times, and the best aim precision for competitive games.



Figure 3.1: NVIDIA Reflex technology helps reduce system latency for competitive gaming.

### 3.3 Performance Optimization

The WINDFORCE cooling system features three 80mm unique blade fans, alternate spinning, and composite copper heat pipes for efficient heat dissipation. This design, combined with 3D active fans and screen cooling, ensures stable performance even under heavy loads.



Figure 3.2: The WINDFORCE cooling system for superior thermal performance.

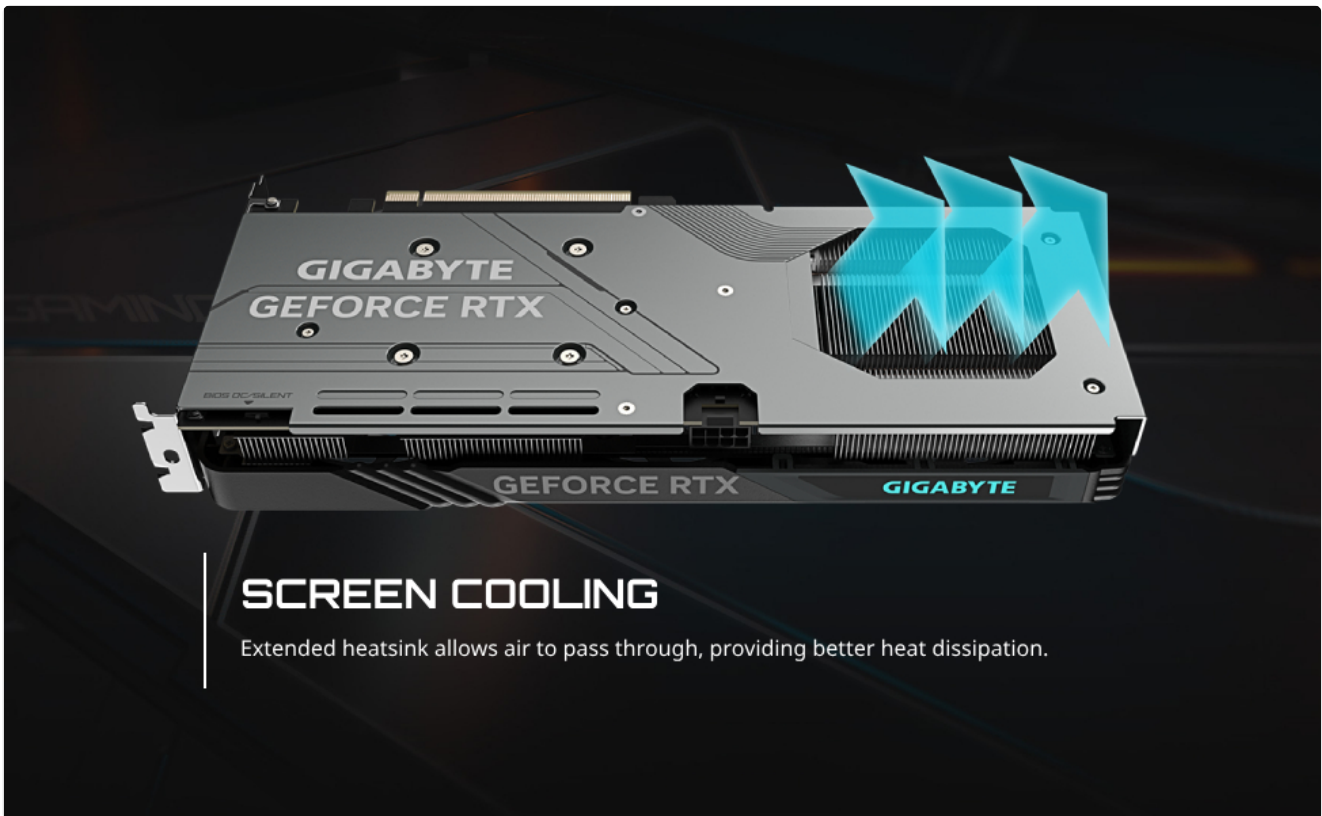


Figure 3.3: Screen cooling allows air to pass through the extended heatsink.

Customize your card's aesthetics with RGB Fusion, offering 16.7 million customizable color options and various lighting effects, synchronizable with other devices via GIGABYTE CONTROL CENTER.



Figure 3.4: RGB Fusion for personalized lighting effects.

## 4. MAINTENANCE

### 4.1 Cleaning

Regularly clean the graphics card to prevent dust buildup, which can affect cooling performance. Use compressed air to clear dust from the fans and heatsink fins. Ensure the computer is powered off and unplugged before cleaning.

## 4.2 Driver Updates

Periodically check for and install the latest graphics drivers from NVIDIA's official website. Driver updates often include performance improvements, bug fixes, and support for new games and applications.

# 5. TROUBLESHOOTING

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## 5.1 No Display Output

- Ensure the display cable is securely connected to both the graphics card and the monitor.
- Verify that the graphics card is properly seated in the PCIe slot and the power connector is attached.
- Test with a different display cable or monitor if possible.

## 5.2 Performance Issues or Lag

- Ensure the latest graphics drivers are installed.
- Check for background applications consuming system resources.
- Monitor GPU temperatures to ensure it's not overheating.
- Adjust in-game graphics settings to a lower preset.

## 5.3 Overheating

- Ensure proper airflow within your computer case.
- Clean dust from the graphics card fans and heatsink.
- Verify that the fans are spinning correctly.

# 6. SPECIFICATIONS

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Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 4060
Graphics RAM Size	8 GB GDDR6
Memory Interface	128-bit
Memory Clock Speed	17000 MHz
Video Output Interface	DisplayPort, HDMI
Display Maximum Resolution	7680x4320
Number of Fans	3
Graphics Card Interface	PCI Express
Item Dimensions (L x W)	11.06"L x 4.49"W
Item Weight	1 Kilogram

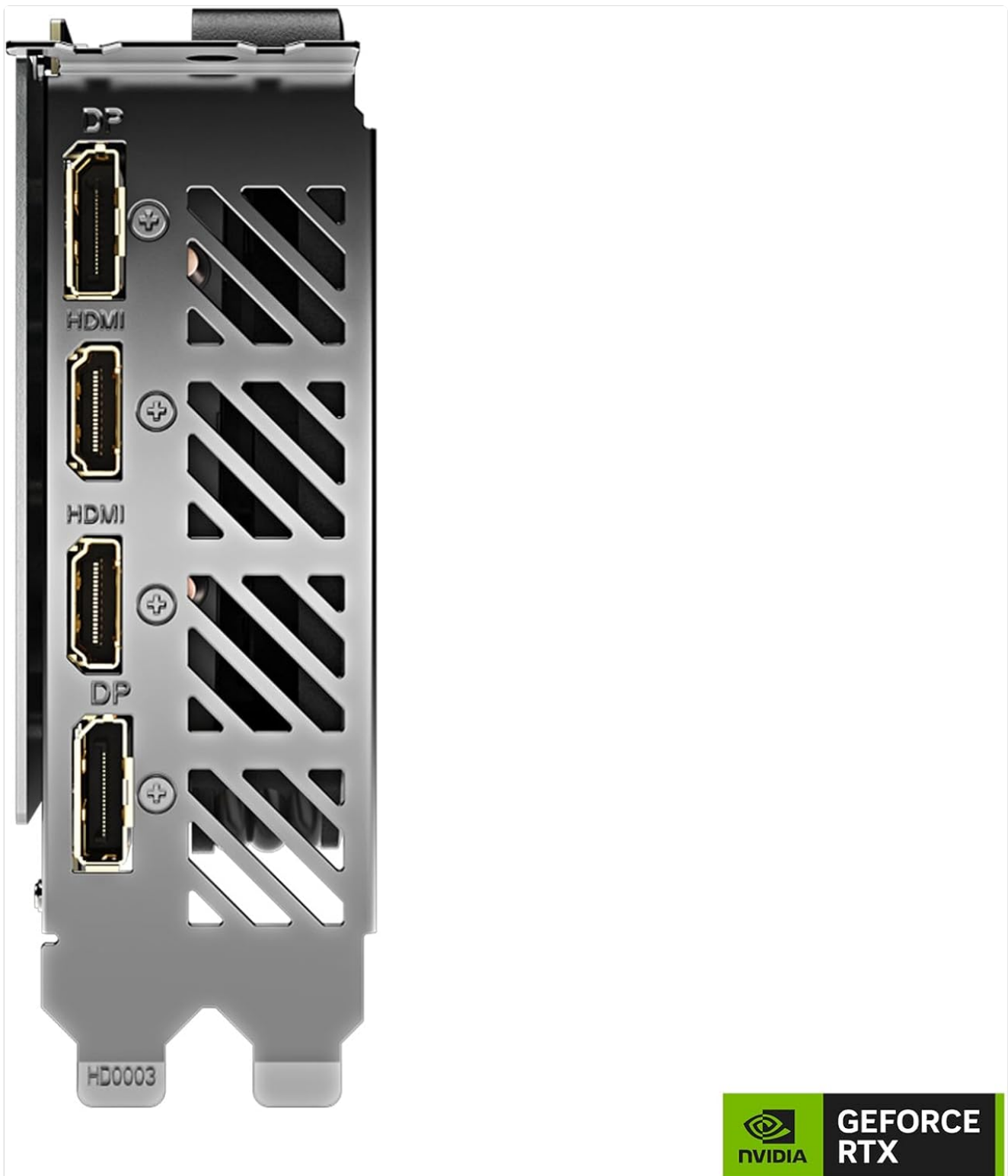


Figure 6.1: Graphics card dimensions.

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

This product comes with a 3-year warranty. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official GIGABYTE website or the warranty card included in the product packaging.

### 7.2 Technical Support

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

or contact their customer service. You can find contact information and resources at [www.gigabyte.com/support](http://www.gigabyte.com/support).