

## GIGABYTE GV-R68XTGAMING OC-16GD

# Gigabyte Radeon RX 6800 Gaming OC 16GB Graphics Card User Manual

Model: GV-R68XTGAMING OC-16GD

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Gigabyte Radeon RX 6800 Gaming OC 16GB Graphics Card. Designed for high-performance gaming and demanding applications, this card leverages AMD RDNA™ 2 architecture to deliver exceptional visual fidelity and frame rates. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.



Figure 1: Gigabyte Radeon RX 6800 Gaming OC 16GB Graphics Card and its retail packaging.

## 2. PRODUCT FEATURES

The Gigabyte Radeon RX 6800 Gaming OC 16GB Graphics Card is equipped with advanced features to enhance your computing experience:

- **Powered by RDNA2 Radeon RX 6800:** Experience cutting-edge graphics performance with AMD's RDNA 2 architecture.
- **Integrated with 16GB GDDR6 256-bit memory interface:** Ample high-speed memory for demanding games and applications.
- **WINDFORCE 3X Cooling System with alternate spinning fans:** Efficient heat dissipation designed for stable performance and lower temperatures.
- **RGB Fusion 2.0:** Customizable lighting effects to personalize your build.
- **Dual BIOS:** Offers flexibility between performance and silent operating modes.
- **Protective metal back plate:** Enhances structural rigidity and provides additional cooling.

## 3. PACKAGE CONTENTS

Upon opening your Gigabyte Radeon RX 6800 Gaming OC 16GB Graphics Card package, you should find the following items:

- Gigabyte Radeon RX 6800 Gaming OC 16GB Graphics Card
- Quick start guide

Please ensure all components are present and undamaged. If any items are missing or damaged, contact your retailer or Gigabyte support immediately.

## 4. PHYSICAL OVERVIEW

Familiarize yourself with the various components and connections of your graphics card:



Figure 2: Top angled view of the graphics card, highlighting the WINDFORCE 3X cooling system.

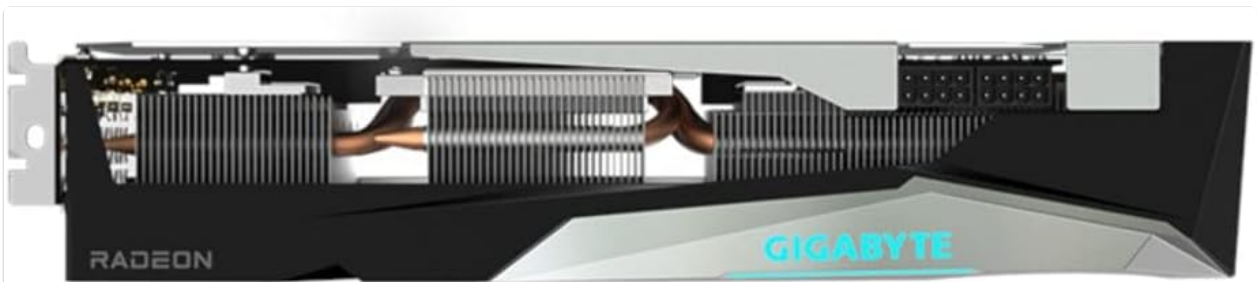


Figure 3: Side view of the graphics card, showing the heatsink fins and Gigabyte branding.



Figure 4: Rear panel with display output interfaces, including DisplayPort and HDMI ports.



Figure 5: The protective metal backplate, featuring Gigabyte and AMD Radeon branding.

## 5. INSTALLATION

Follow these steps to properly install your graphics card into your computer system:

1. **Preparation:** Power off your computer and unplug all cables. Open your computer case.
2. **Locate PCIe Slot:** Find an available PCI Express x16 slot on your motherboard.
3. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated.
4. **Secure Card:** Use screws to secure the graphics card to the computer case's expansion slot bracket.
5. **Connect Power:** Connect the necessary 8-pin power connectors from your power supply to the graphics card. Ensure a secure connection.
6. **Connect Display:** Connect your monitor to one of the graphics card's display output ports (DisplayPort or HDMI).
7. **Close Case & Power On:** Close your computer case, plug in all cables, and power on your system.
8. **Install Drivers:** Once your operating system loads, install the latest AMD Radeon drivers from the official Gigabyte or AMD website.

## 6. OPERATING MODES

Your Gigabyte Radeon RX 6800 Gaming OC 16GB Graphics Card features a Dual BIOS switch, allowing you to select between two operating modes:

- **Performance Mode:** This mode prioritizes maximum clock speeds and fan performance for the highest possible frame rates. It may result in increased fan noise.
- **Silent Mode:** This mode optimizes fan curves for quieter operation, potentially at the cost of slightly reduced clock speeds. It is ideal for users who prefer a quieter computing environment during less demanding tasks or when noise is a concern.

The Dual BIOS switch is typically located on the side of the graphics card. To switch modes, ensure your system is powered off, then carefully move the switch to your desired setting. Power on your system for the changes to take effect.

## 7. SPECIFICATIONS

Feature	Specification
Graphics Processing Unit	AMD Radeon RX 6800
Core Clock	Gaming OC (Boost Clock: Up to 2190 MHz, Game Clock: Up to 1980 MHz)
Memory Size	16 GB
Memory Type	GDDR6
Memory Bus	256-bit
Memory Speed	16000 MHz
Max Screen Resolution	7680x4320 Pixels
Video Output Interface	DisplayPort, HDMI
Recommended PSU	650W (with two 8-pin power connectors)
Card Dimensions (LxWxH)	11.26 x 4.41 x 2.28 inches
Item Weight	3.08 pounds
Model Number	GV-R68XTGAMING OC-16GD

## 8. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your graphics card, consider the following maintenance tips:

- **Keep it Clean:** Regularly clean dust from the fans and heatsink using compressed air. Ensure the system is powered off before cleaning.

- **Driver Updates:** Keep your graphics drivers updated to the latest version available from Gigabyte or AMD's official websites. This ensures compatibility, performance improvements, and bug fixes.
- **Proper Airflow:** Ensure your computer case has adequate airflow to prevent heat buildup.
- **Monitor Temperatures:** Use monitoring software to keep an eye on your GPU temperatures, especially during heavy loads.

## 9. TROUBLESHOOTING

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

- **No Display:** Ensure all power cables are securely connected to the GPU and power supply. Verify the monitor cable is correctly plugged into the graphics card and the monitor. Try a different display output port or cable.
- **System Instability/Crashes:** Ensure your drivers are up-to-date. Check GPU temperatures to rule out overheating. Verify your power supply unit (PSU) meets the recommended wattage.
- **Poor Performance:** Ensure your system meets the minimum requirements for the games/applications you are running. Check for background processes consuming resources. Verify the graphics card is operating in Performance Mode if desired.
- **Fan Noise:** If fan noise is excessive, consider switching to Silent Mode via the Dual BIOS switch. Ensure fans are free of obstructions.

If these steps do not resolve your issue, please contact Gigabyte customer support.

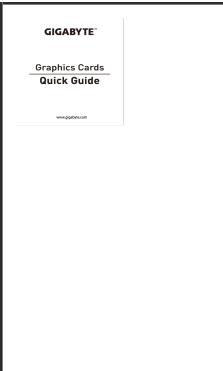
## 10. WARRANTY AND SUPPORT

Your Gigabyte Radeon RX 6800 Gaming OC 16GB Graphics Card comes with a manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, driver downloads, and further assistance, visit the official Gigabyte website:

[www.gigabyte.com](http://www.gigabyte.com)

You may also find additional resources and community support through the official AMD Radeon website.

### Related Documents - GV-R68XTGAMING OC-16GD

	<p><a href="#">Gigabyte GeForce RTX 4080 Gaming OC 16G Graphics Card User Manual</a></p> <p>Comprehensive user manual for the Gigabyte GeForce RTX 4080 Gaming OC 16G Graphics Card, detailing installation, features, specifications, and troubleshooting. Includes information on the WINDFORCE cooling system and 16GB GDDR6X memory.</p>
---	--



