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GIGABYTE GV-R69XTAORUS M-16GD REV2.0

GIGABYTE AORUS Radeon RX 6900 XT Master 16G Graphics Card

MODEL: GV-R69XTAORUS M-16GD REV2.0

1. Product Overview

The GIGABYTE AORUS Radeon RX 6900 XT Master 16G Graphics Card is engineered for high-performance computing and gaming. Powered by RDNA2 architecture, it features 16GB of GDDR6 memory with a 256-bit interface, ensuring robust performance for demanding applications and high-resolution gaming. Key features include MAX-Covered cooling for efficient thermal management, an LCD Edge View for real-time monitoring, and customizable RGB Fusion 2.0 lighting. The card also incorporates a Dual BIOS for flexible performance profiles and a protective metal backplate for enhanced durability.



Figure 1: Front view of the GIGABYTE AORUS Radeon RX 6900 XT Master 16G Graphics Card.

2. Product Features

- **RDNA2 Architecture:** Powered by RDNA2 Radeon RX 6900 XT for advanced graphics processing.
- **High-Speed Memory:** Integrated with 16GB GDDR6 256-bit memory interface.
- **Advanced Cooling:** Features MAX-Covered cooling system for optimal thermal performance.
- **Customizable Display:** LCD Edge View for personalized information display.
- **RGB Lighting:** RGB Fusion 2.0 for customizable lighting effects.
- **Dual BIOS:** Offers two BIOS modes for performance flexibility.
- **Connectivity:** Equipped with 2 x DisplayPort 1.4a and 2 x HDMI 2.1 ports.
- **Enhanced Durability:** Includes a protection metal back plate.
- **Extended Warranty:** 4 years warranty (online registration required).

3. Setup and Installation

3.1 Unboxing

Carefully open the product packaging. The box contains the graphics card and a user manual. No additional accessories

are typically included.



Figure 2: The graphics card is protected within an anti-static bag inside the packaging.

3.2 Hardware Installation

1. Turn off your computer and unplug all power cables.
2. Open your computer case to access the motherboard.
3. Locate an available PCI Express x16 slot on your motherboard.
4. Remove any slot covers from the back of your PC case that correspond to the graphics card's position.
5. Carefully insert the graphics card into the PCI Express x16 slot until it is fully seated. Ensure the retention clip on the motherboard clicks into place.
6. Secure the graphics card to the PC case with screws.
7. Connect the required power cables from your power supply to the graphics card. This model requires a single 8-pin power connector. A minimum 650W power supply is recommended for stable operation.
8. Close your computer case and reconnect all power cables.

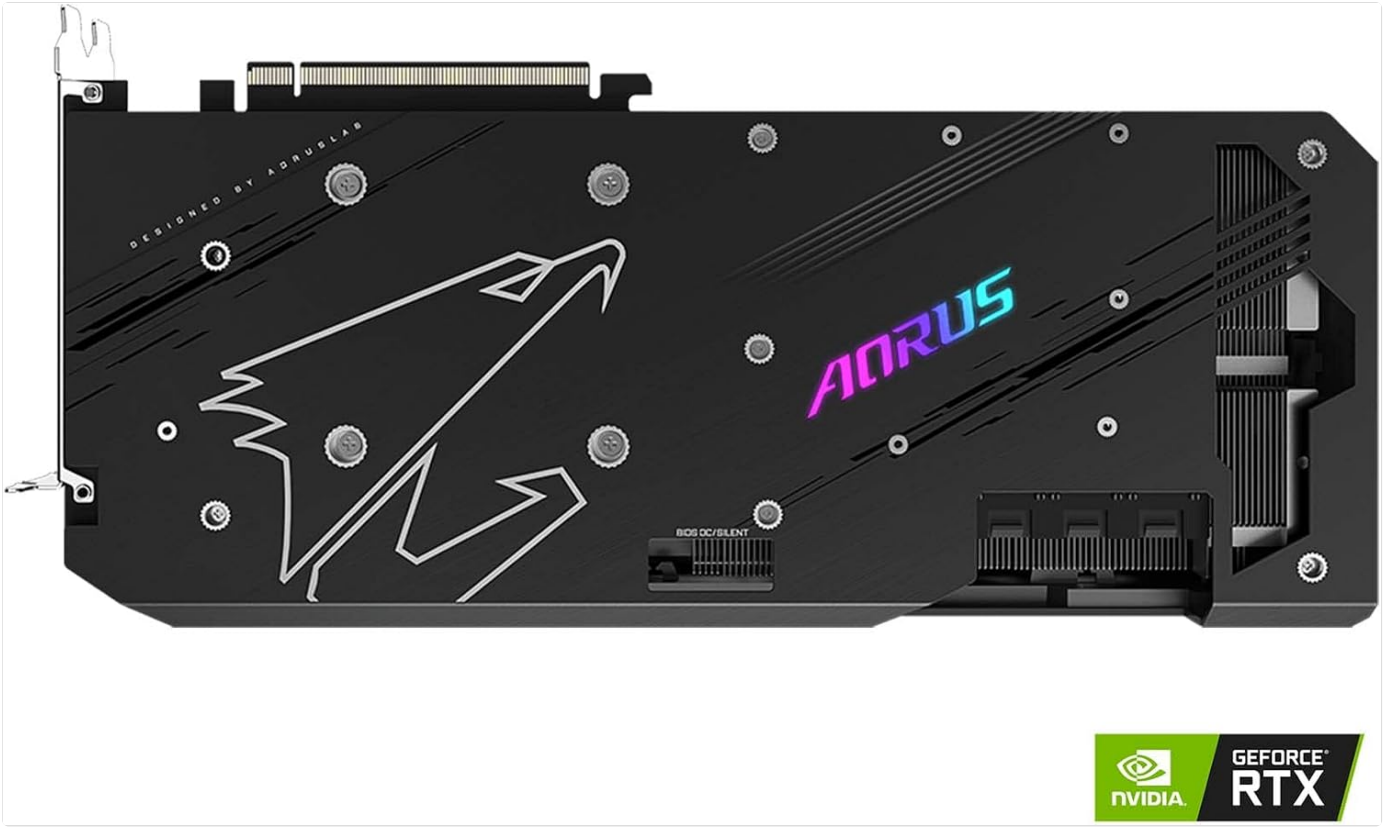


Figure 3: The metal backplate provides structural integrity and features a cutout for improved airflow.

3.3 Driver Installation

After installing the hardware, power on your computer. Install the latest AMD Radeon drivers from the official GIGABYTE website or AMD's website to ensure optimal performance and access to all features.

4. Operating Instructions

4.1 Display Connections

The graphics card features 2x DisplayPort 1.4a and 2x HDMI 2.1 ports. Connect your display(s) using the appropriate cables. Ensure your monitor supports the desired resolution and refresh rate for the best experience.



Figure 4: The display output panel showing 2x DisplayPort and 2x HDMI ports.

4.2 Dual BIOS

The card is equipped with a Dual BIOS feature, allowing you to switch between different performance profiles (e.g., Performance Mode for maximum clock speeds or Silent Mode for quieter operation). Refer to the GIGABYTE software utility for managing these profiles.

4.3 RGB Fusion 2.0 and LCD Edge View

Customize the RGB lighting effects and the LCD Edge View display using the GIGABYTE RGB Fusion 2.0 software. The LCD Edge View can show real-time GPU statistics, custom text, images, or GIFs.

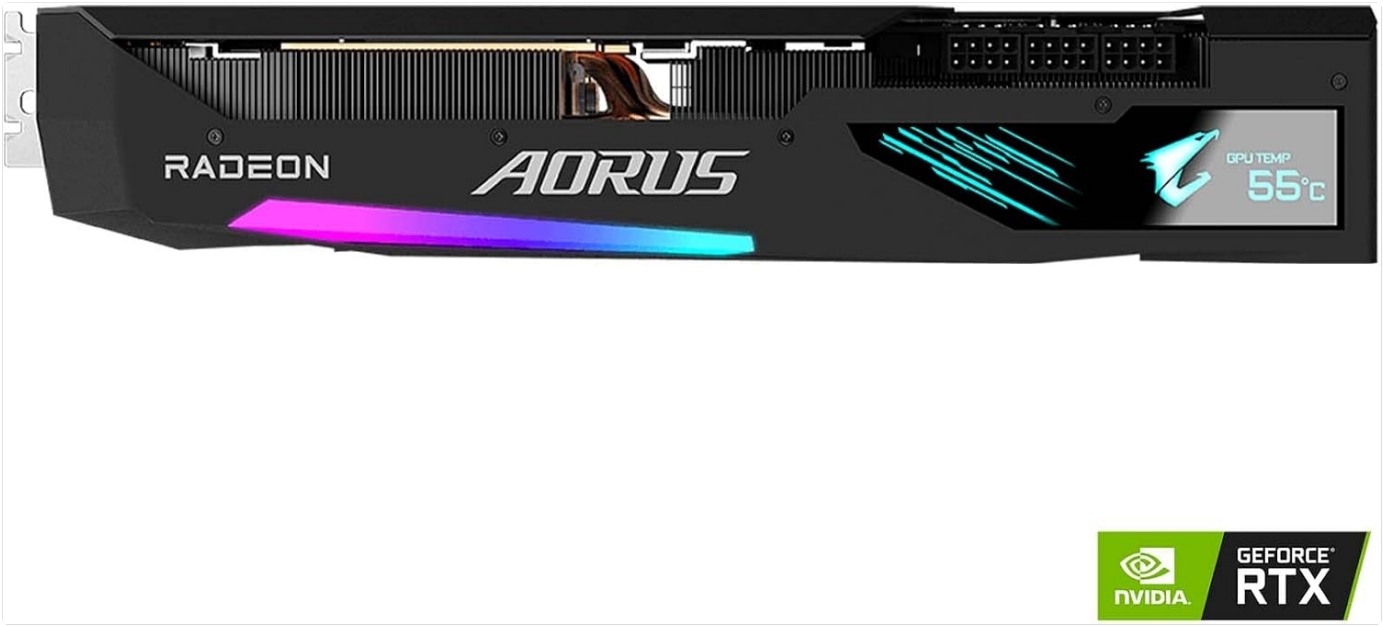


Figure 5: Side view of the graphics card highlighting the LCD Edge View display.

5. Maintenance

- **Cleaning:** Regularly 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 for optimal performance and stability.
- **Software Updates:** Periodically check for updates to GIGABYTE's RGB Fusion 2.0 and other utility software.

6. Troubleshooting

- **No Display:** Ensure all power cables are securely connected to the graphics card and power supply. Verify the display cable is properly connected to both the graphics card and monitor. Try a different display port or cable.
- **Driver Issues:** If experiencing crashes or graphical anomalies, perform a clean installation of the latest graphics drivers.
- **Overheating:** Ensure adequate airflow within your PC case. Clean any dust buildup from the heatsink and fans. Monitor temperatures using GIGABYTE's utility software.
- **Performance Issues:** Verify that your power supply meets the recommended 650W minimum. Check for background applications consuming resources. Ensure the Dual BIOS is set to a performance profile if desired.

7. Specifications

Feature	Specification
Graphics Processing Unit	AMD Radeon RX 6900 XT
Memory	16GB GDDR6
Memory Interface	256-bit
Boost Clock	Up to 2335 MHz
Game Clock	Up to 2135 MHz
Max Screen Resolution	7680x4320
Memory Speed	16000 MHz
Output Ports	2x DisplayPort 1.4a, 2x HDMI 2.1
Power Connectors	Single 8-pin
Recommended PSU	650W or greater
Dimensions	12.68 x 5.51 x 2.36 inches
Item Weight	4.77 pounds
Model Number	GV-R69XTAORUS M-16GD REV2.0

8. Warranty and Support

This product comes with a 4-year warranty. Online registration is required to activate the full warranty period. Please visit the official GIGABYTE website for warranty registration and support resources.

For technical assistance, driver downloads, or further information, please visit the GIGABYTE support page or contact their customer service.

Note on Videos:

No official product videos from the seller were available for embedding in this manual.

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