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GIGABYTE GV-R9060XTGAMING OC-16GD

GIGABYTE Radeon RX 9060 XT Gaming OC 16G Graphics Card User Manual

Model: GV-R9060XTGAMING OC-16GD

Brand: GIGABYTE

1. INTRODUCTION

Ahead of its time, ahead of the game are the AORUS Radeon 9000 Series Graphics Cards. Powered by AMD RDNA™ 4 Architecture, the GIGABYTE Radeon RX 9060 XT GAMING OC 16G brings stunning visuals, amazingly fast frame rates, and AI acceleration to games and creative applications along with a staggering 16 GB of GDDR6 memory.



Figure 1: GIGABYTE Radeon RX 9060 XT Gaming OC 16G Graphics Card and retail packaging.

2. SETUP

2.1. Hardware Installation

1. Turn off your PC and unplug the power cord.
2. Open the PC case and locate an available PCI Express 5.0 x16 slot on your motherboard.
3. Remove any corresponding slot covers from the back of the PC case.
4. Carefully insert the graphics card into the PCI Express slot until it is fully seated. Ensure the retention clip locks into place.
5. Secure the graphics card to the PC case with screws.
6. Connect the single 8-pin power connector from your power supply to the graphics card. A minimum 450W power supply is recommended.

READY TO PLAY HIGH

Go Beyond Limits

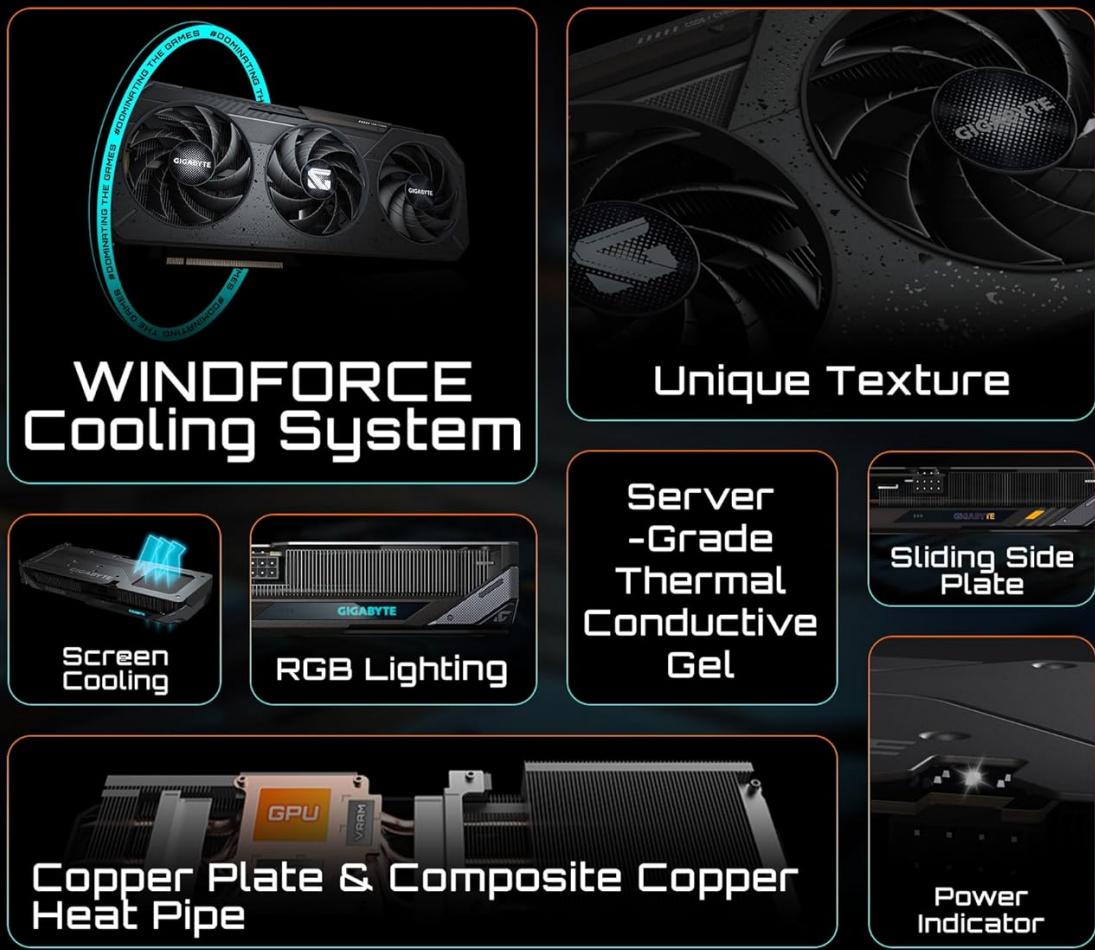


Figure 2: Side view of the graphics card showing the power connector.

2.2. Driver Installation

After hardware installation, connect your display cable to the graphics card. Turn on your PC. To ensure optimal performance and stability, download and install the latest drivers from the official GIGABYTE or AMD website. Follow the on-screen instructions to complete the driver installation.

3. OPERATING

3.1. Performance Modes

The GIGABYTE Radeon RX 9060 XT Gaming OC 16G Graphics Card features a dual BIOS switch, allowing you to select between 'Performance' and 'Quiet' modes. The switch is located on the side of the card. By default, the graphics card is set to Performance mode.

- Performance Mode:** Provides maximum clock speeds and fan performance for optimal gaming and application performance.
- Quiet Mode:** Prioritizes lower fan noise for a quieter computing experience, potentially with slightly reduced clock

speeds.

3.2. Gaming Performance

Powered by AMD RDNA™ 4 Architecture and featuring 16 GB of GDDR6 memory, this graphics card is designed for high-fidelity gaming at 1440p and 4K resolutions. It supports AMD FidelityFX™ Super Resolution 4 technology and AMD HYPR-RX for ultra-smooth, ultra-responsive gameplay. The card is equipped with 32 Compute Units and 2nd Gen AI Accelerators for enhanced visuals and AI-driven features.

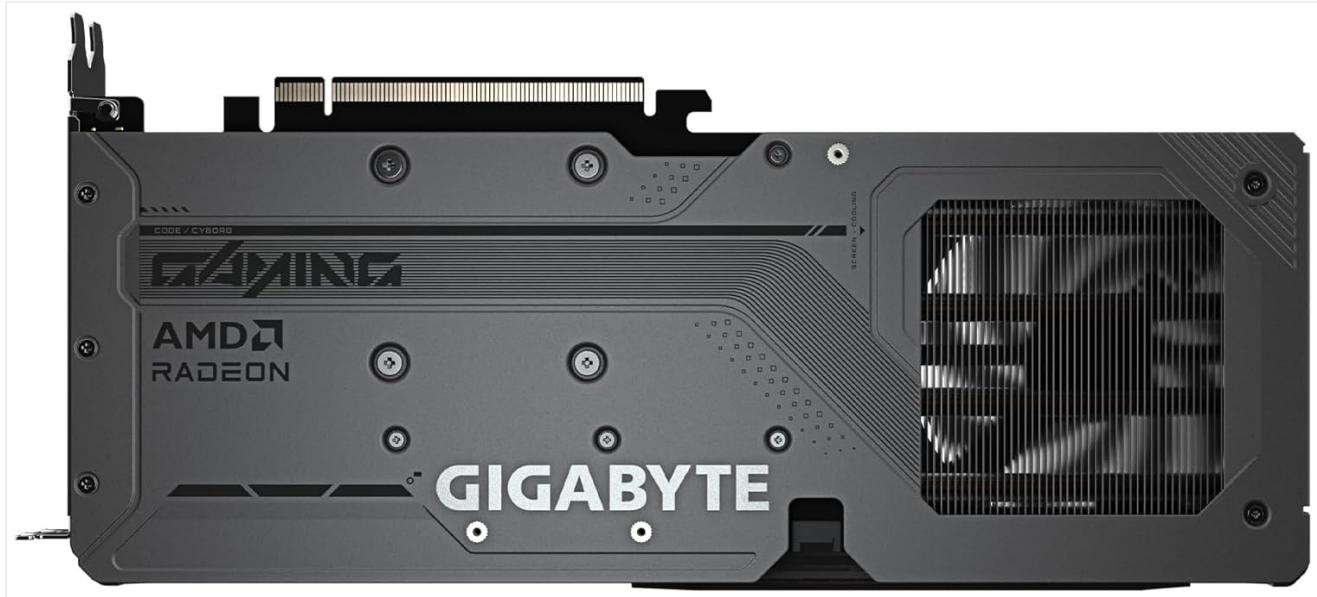


Figure 3: Key specifications of the Radeon RX 9060 XT Gaming OC.

3.3. Cooling System

The WINDFORCE Cooling System ensures superior thermal performance. It features a triple-fan design, Hawk Fans, Server-grade Thermal Conductive Gel, and Copper Plate & Composite Copper Heat Pipes to efficiently dissipate heat and maintain optimal operating temperatures even under heavy load.



Figure 4: Overview of the WINDFORCE Cooling System features.

3.4. RGB Lighting

The graphics card features integrated RGB lighting. You can customize the lighting effects and colors using the GIGABYTE Control Center (GCC) software. GCC is a unified software for all GIGABYTE supported products, providing an intuitive interface to adjust clock speed, voltage, fan mode, and power target in real-time, including

RGB Fusion settings.



Figure 5: GIGABYTE Control Center interface for managing card settings and RGB lighting.

4. MAINTENANCE

- Regularly clean dust from the fans and heatsink using compressed air to maintain optimal cooling performance.
- Ensure your graphics drivers are always up-to-date by checking the GIGABYTE or AMD website periodically.
- Avoid touching the PCB (Printed Circuit Board) directly to prevent electrostatic discharge.

5. TROUBLESHOOTING

- **No Display:** Ensure the display cable is securely connected to the graphics card and the monitor. Verify that the monitor is set to the correct input source. Check if the graphics card is properly seated in the PCIe slot and that all power connectors are firmly attached.
- **Performance Issues:** Ensure the latest drivers are installed. Check for background applications consuming system resources. Monitor GPU temperatures to ensure it's not overheating. Adjust in-game graphics settings or switch to 'Performance Mode' via the dual BIOS switch.
- **Overheating:** Clean dust from the fans and heatsink. Ensure adequate airflow within your PC case. Consider adjusting fan curves using GIGABYTE Control Center.
- **System Instability/Crashes:** Ensure your power supply unit (PSU) meets the minimum recommended wattage (450W). Update motherboard BIOS. Reinstall graphics drivers.

6. SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	Radeon RX 9060 XT
Graphics Card RAM Size	16 GB GDDR6
Memory Speed	20000 MHz

GPU Clock Speed	2700 MHz
Max Screen Resolution	7680x4320 Pixels
Video Output Interface	DisplayPort, HDMI
Item Model Number	GV-R9060XTGAMING OC-16GD
Product Dimensions (LxWxH)	11.06 x 4.65 x 1.57 inches
Item Weight	2.57 pounds
Manufacturer	GIGABYTE

7. WHAT'S IN THE BOX

- GIGABYTE Radeon RX 9060 XT Gaming OC 16G Graphics Card
- Instruction Manual

8. WARRANTY AND SUPPORT

For warranty information, technical support, and additional resources, please visit the official GIGABYTE website or their brand store:

- [GIGABYTE Brand Store](#)

Related Documents - GV-R9060XTGAMING OC-16GD

 www.gigabyte.com	<p>Gigabyte GeForce RTX 4080 Gaming OC 16G Graphics Card User Manual</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>
 www.gigabyte.com	<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>
 www.gigabyte.com	<p>Gigabyte Graphics Cards Quick Guide: Hardware and Software Installation</p> <p>This Gigabyte Graphics Cards Quick Guide provides essential steps for hardware installation, including connecting the card to the motherboard and display, and software installation for drivers and utilities. It also details supported ports, restricted substances compliance, and important product notices.</p>

<p>GIGABYTE™</p> <p>Graphics Cards</p> <p>Quick Guide</p> <p>www.gigabyte.com</p>	<p>GIGABYTE Graphics Cards Quick Guide</p> <p>A quick guide for installing GIGABYTE graphics cards, covering hardware and software installation steps in multiple languages.</p>
<p>GIGABYTE™</p> <p>Graphics cards</p> <p>Quick Guide</p> <p></p>	<p>GIGABYTE Graphics Cards Quick Guide</p> <p>A quick guide for installing GIGABYTE graphics cards, covering hardware and software setup, connector types, and restricted substances information.</p>
<p>GIGABYTE™</p> <p>Graphics Cards</p> <p>Quick Guide</p> <p>www.gigabyte.com</p>	<p>GIGABYTE Graphics Cards Quick Guide: Installation and Setup</p> <p>A concise guide to installing and setting up GIGABYTE graphics cards, covering hardware installation and software setup with multilingual instructions and technical details.</p>