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GIGABYTE GV-N3060GAMING OC-12GD REV2.0

GIGABYTE GeForce RTX 3060 Gaming OC 12G (REV2.0) Graphics Card User Manual

Model: GV-N3060GAMING OC-12GD REV2.0

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your GIGABYTE GeForce RTX 3060 Gaming OC 12G (REV2.0) Graphics Card. Please read this manual thoroughly before installation to ensure proper functionality and to maximize the performance of your new graphics card.



Image: The GIGABYTE GeForce RTX 3060 Gaming OC 12G graphics card shown alongside its retail packaging.

Setup

System Requirements

- PCI Express® graphics slot required.
- Internet connection and 2GB available disk space for driver installation required.
- Two PCIe 8-pin power connectors required.
- 750W system power supply recommended.
- Microsoft® Windows® 10 64-bit (build 2004 or later recommended) or Linux 64-bit.

Physical Installation

1. **Prepare your system:** Power off your computer and disconnect all cables. Open the computer case.
2. **Locate the PCIe slot:** Identify an available PCI Express x16 slot on your motherboard.
3. **Insert the graphics card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip locks into place.

4. **Connect power cables:** Connect two 8-pin PCIe power connectors from your power supply to the corresponding ports on the graphics card.



Image: Side view of the graphics card highlighting the dual 8-pin power connectors.

5. **Secure the card:** Secure the graphics card to the computer case with screws.
6. **Close the case:** Replace the computer case cover and reconnect all cables.

Driver Installation

After physical installation, power on your computer. Windows will typically detect new hardware. For optimal performance, download and install the latest drivers from the official GIGABYTE website or NVIDIA's website. Ensure you have an active internet connection during this process.

Operating the Graphics Card

Your GIGABYTE GeForce RTX 3060 graphics card is designed to enhance your computing experience, particularly for gaming and creative applications. It leverages NVIDIA's Ampere architecture for advanced graphics processing.

Key Features

- **WINDFORCE 3X Cooling System:** Features three alternate spinning fans for efficient heat dissipation.
- **RGB Fusion 2.0:** Customizable RGB lighting for aesthetic personalization.
- **Protection Metal Back Plate:** Provides structural rigidity and protection for the PCB.
- **Display Outputs:** Equipped with 2x HDMI 2.1 and 2x DisplayPort 1.4 for versatile display connectivity.

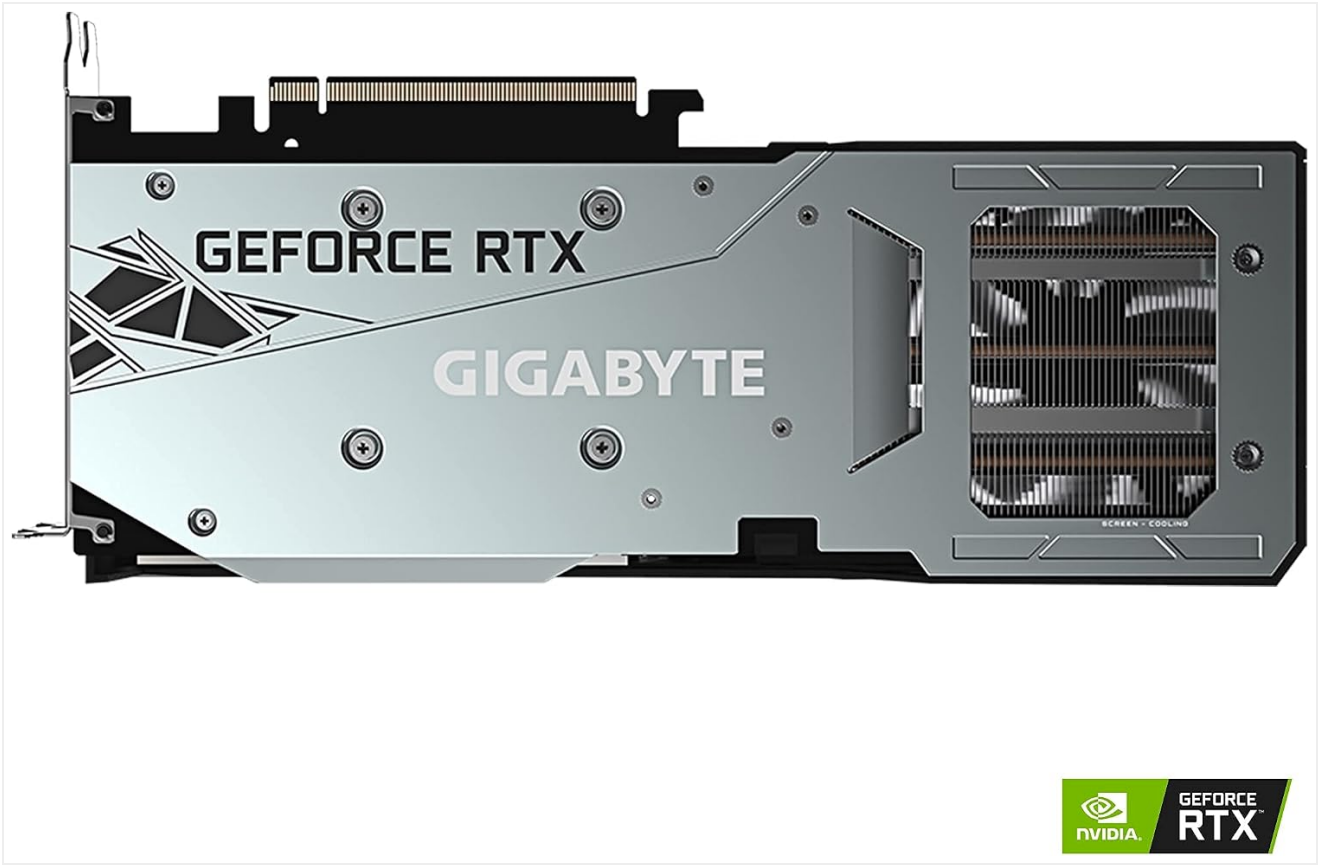


Image: The display output panel of the graphics card, showing HDMI and DisplayPort connections.

Performance Technologies

- **NVIDIA Ampere Streaming Multiprocessors:** Delivers high throughput and efficiency.
- **2nd Generation RT Cores:** Enhances real-time ray tracing performance.
- **3rd Generation Tensor Cores:** Accelerates AI capabilities, including DLSS (Deep Learning Super Sampling).
- **12GB GDDR6 Memory:** Provides ample memory for high-resolution textures and complex scenes.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your graphics card.

- **Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check the GIGABYTE or NVIDIA website for the latest driver updates. Keeping drivers current can improve performance and stability.
- **Temperature Monitoring:** Use monitoring software to keep an eye on the GPU temperature, especially during heavy loads, to prevent overheating.

Troubleshooting

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

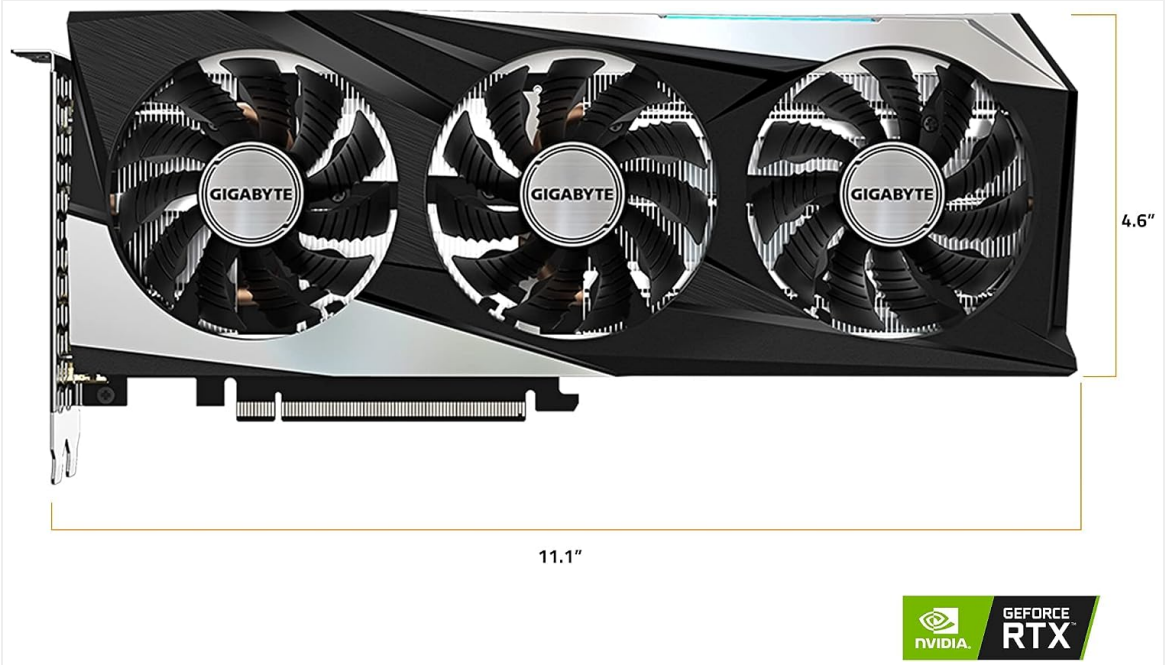
- **No Display Output:**
  - Ensure the graphics card is fully seated in the PCIe slot.
  - Verify that all power cables are securely connected to the graphics card.
  - Check that your monitor cable is connected to the graphics card's output, not the motherboard's integrated

graphics port.
    - Test with a different display cable or monitor if possible.
- **Performance Issues (Low FPS, Stuttering):**
    - Ensure you have the latest graphics drivers installed.
    - Check for background applications consuming system resources.
    - Monitor GPU temperatures to ensure it's not thermal throttling.
    - Verify your power supply meets the recommended wattage (750W).
- **System Crashes or Freezes:**
    - Ensure your system drivers (chipset, BIOS) are up to date.
    - Check for system stability with other components.
    - If overclocking, revert to default settings.

If issues persist after attempting these steps, please refer to the support section or contact GIGABYTE customer service.

SPECIFICATIONS

Feature	Detail
Brand	GIGABYTE
Model Number	GV-N3060GAMING OC-12GD REV2.0
Graphics Coprocessor	NVIDIA GeForce RTX 3060
Graphics Card Ram Size	12 GB GDDR6
Memory Speed	15000 MHz
Max Screen Resolution	7680x4320
Video Output Interface	2x DisplayPort, 2x HDMI
Item Weight	12 ounces

Feature	Detail
Product Dimensions (LxWxH)	11.1 x 4.6 x 0.1 inches  Image: Diagram illustrating the dimensions of the graphics card.

Warranty Information

Your GIGABYTE graphics card comes with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official GIGABYTE website for detailed warranty terms and conditions specific to your region and model.

Support

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

GIGABYTE Support Website

You can also find a downloadable PDF version of the user manual for this product at:User Manual (PDF)

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