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GIGABYTE GV-N2060GAMINGOC PRO-6GD REV2.0

GIGABYTE GeForce RTX 2060 Gaming OC Pro 6G Graphics Card User Manual

Model: GV-N2060GAMINGOC PRO-6GD REV2.0

1. PRODUCT OVERVIEW

The GIGABYTE GeForce RTX 2060 Gaming OC Pro 6G is a high-performance graphics card designed for gaming and demanding graphical applications. It features NVIDIA's Turing architecture, enabling real-time ray tracing and AI-enhanced graphics. The card is equipped with 6GB of 192-bit GDDR6 memory and GIGABYTE's WINDFORCE 3X cooling system for efficient heat dissipation.



Image 1.1: The GIGABYTE GeForce RTX 2060 Gaming OC Pro 6G Graphics Card shown alongside its retail packaging.

2. SAFETY INFORMATION

- Always disconnect the power supply from your computer before installing or removing any hardware components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to prevent electrostatic discharge (ESD) damage to components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Do not expose the graphics card to moisture or extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- GIGABYTE GeForce RTX 2060 Gaming OC Pro 6G Graphics Card
- User Manual (this document)

- Driver CD (optional, drivers can also be downloaded from the GIGABYTE website)

4. SYSTEM REQUIREMENTS

- **PCI Express-enabled motherboard:** With one x16 graphics slot.
- **Minimum 500W power supply:** With one 8-pin PCIe power connector.
- **Operating System:** Microsoft Windows 10 / 7 (64-bit).
- **Memory:** 8GB system memory recommended.
- **Storage:** 1.5GB of available hard-disk space.

5. SETUP AND INSTALLATION

5.1 Hardware Installation

1. **Power Off:** Turn off your computer and disconnect the power cable from the wall outlet.
2. **Open Case:** Remove the computer case side panel.
3. **Locate PCIe Slot:** Find an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers if necessary.
4. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press it down firmly until it is securely seated. Ensure the retention clip locks into place.



Image 5.1: Front view of the GIGABYTE GeForce RTX 2060 Gaming OC Pro 6G Graphics Card, highlighting its triple-fan cooling system.

5. **Secure Card:** Fasten the graphics card to the case with a screw.
6. **Connect Power:** Connect the 8-pin PCIe power connector from your power supply to the corresponding port on the graphics card.



Image 5.2: Top view of the graphics card, illustrating the location of the PCIe power connectors.

7. **Close Case:** Replace the computer case side panel.
8. **Connect Display:** Connect your monitor to one of the display outputs (HDMI or DisplayPort) on the graphics card.



Image 5.3: Rear view of the graphics card, showing the HDMI and DisplayPort output connectors.

9. **Power On:** Reconnect the power cable and turn on your computer.

5.2 Driver Installation

1. **Download Drivers:** Visit the official GIGABYTE website (www.gigabyte.com) and navigate to the support section for your specific graphics card model (GV-N2060GAMINGOC PRO-6GD REV2.0). Download the latest graphics drivers.
2. **Run Installer:** Execute the downloaded driver installer. Follow the on-screen instructions to complete the installation.
3. **Restart:** Restart your computer after the driver installation is complete.

6. OPERATING THE GRAPHICS CARD

Once installed and drivers are updated, your graphics card will automatically handle graphical processing for your system. For advanced control and monitoring, GIGABYTE provides the AORUS Engine software.

6.1 AORUS Engine Software

- **Download:** Download the AORUS Engine utility from the GIGABYTE website.
- **Features:** This software allows you to monitor GPU status, adjust clock speeds, fan curves, and customize RGB lighting effects (if applicable).



Image 6.1: Angled view of the graphics card, showcasing the WINDFORCE 3X cooling system with its three fans.

7. MAINTENANCE

- **Dust Removal:** Periodically clean dust from the graphics card fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check the GIGABYTE website for the latest driver updates to ensure optimal performance and stability.

8. TROUBLESHOOTING

- **No Display Output:**
 - Ensure the monitor cable is securely connected to the graphics card and the monitor.
 - Verify the 8-pin PCIe power connector is properly seated in the graphics card.
 - Check if the graphics card is fully seated in the motherboard's PCIe slot.
 - Test with a different display cable or monitor if possible.
- **Driver Issues / Low Performance:**
 - Ensure you have installed the correct and latest drivers from the GIGABYTE website.
 - Perform a clean installation of the graphics drivers (uninstall old drivers before installing new ones).
 - Check your system's power supply to ensure it meets the minimum 500W requirement.
- **Overheating:**
 - Ensure your computer case has adequate airflow.
 - Clean any dust accumulation from the graphics card's fans and heatsink.
 - Monitor temperatures using the AORUS Engine software.

9. SPECIFICATIONS

Feature	Detail
Graphics Processing	NVIDIA GeForce RTX 2060
Core Clock	1830 MHz
Memory Clock	14000 MHz
Memory Size	6 GB
Memory Type	GDDR6
Memory Bus	192-bit
Digital Max Resolution	7680x4320 @ 60Hz
Multi-view	4
Card Dimensions (LxWxH)	11.02 x 4.53 x 1.61 inches (280 x 115 x 41 mm)
Recommended PSU	500W
Power Connectors	1 x 8-pin
Output	3 x DisplayPort 1.4, 1 x HDMI 2.0b
Interface	PCI Express 3.0 x16

10. WARRANTY AND SUPPORT

GIGABYTE products are covered by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty information included with your product or visit the official GIGABYTE website.

For technical support, driver downloads, and frequently asked questions, please visit the GIGABYTE support page:

[GIGABYTE Support Website](#)