

GIGABYTE GV-N1080G1 GAMING-8GD

GIGABYTE GeForce GTX 1080 G1 Gaming 8G Graphics Card User Manual

MODEL: GV-N1080G1 GAMING-8GD

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1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your GIGABYTE GeForce GTX 1080 G1 Gaming 8G graphics card (Model: GV-N1080G1 GAMING-8GD). This video card is powered by the NVIDIA Pascal architecture and features 8GB GDDR5X 256-bit memory, a unique WindForce 3X blade fan design, and 3D active fans with LED indicators. Please read this manual thoroughly before installation to ensure proper usage and optimal performance.



Image 1.1: The GIGABYTE GeForce GTX 1080 G1 Gaming 8G graphics card shown with its retail packaging.

2. Safety Information

- Always disconnect the power supply from your computer before installing or removing any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to the graphics card and other 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 your package:

- GIGABYTE GeForce GTX 1080 G1 Gaming 8G Graphics Card
- User Manual (this document)
- Driver CD (if included, otherwise download from GIGABYTE website)
- Accessory cables (if included)

4. Setup

4.1 Physical Installation

1. **Prepare your system:** Turn off your computer and disconnect the power cord. Open the computer case.
2. **Locate a PCI-Express x16 slot:** The graphics card requires one PCI-Express x16 slot. Ensure there is sufficient space for the card (dimensions: H=41 L=280 W=114 mm).
3. **Remove slot covers:** Remove the necessary expansion slot covers from your computer case.
4. **Install the graphics card:** Carefully align the graphics card with the PCI-Express x16 slot and press it firmly until it is securely seated. Secure the card to the case with screws.
5. **Connect power:** The card requires external power. Connect the appropriate PCI-E power connectors from your power supply unit (PSU) to the graphics card. A recommended PSU of 500W is advised.
6. **Close the case:** Once the card is securely installed and powered, close your computer case and reconnect the power cord.



Image 4.1: Angled view of the graphics card, showing its triple-fan cooler and PCB.

4.2 Driver Installation

1. **Power on your computer:** Boot your system. If drivers are not automatically detected, the display may use a basic resolution.
2. **Download drivers:** Visit the official GIGABYTE website (www.gigabyte.com) and navigate to the support section for your specific graphics card model (GV-N1080G1 GAMING-8GD). Download the latest graphics drivers.
3. **Install drivers:** Run the downloaded driver installer and follow the on-screen instructions. A system restart may be required after installation.

5. Operating

5.1 Connecting Displays

The GIGABYTE GeForce GTX 1080 G1 Gaming 8G graphics card supports multiple display outputs. Connect your monitor(s) to the available ports.

- **DisplayPort (DP):** For high-resolution and high-refresh-rate monitors. The card supports up to 8K Display @60Hz (requires 2*DP1.3 connectors).
- **HDMI:** Common for TVs and monitors.
- **DVI-D:** For older digital monitors.



Image 5.1: Rear panel of the graphics card, featuring DisplayPort, HDMI, and DVI-D connectors.

5.2 Software Utilities

GIGABYTE provides software utilities to enhance your graphics card experience, including overclocking tools and RGB lighting control. These utilities can be downloaded from the official GIGABYTE website. Refer to the software's specific documentation for detailed usage instructions.

6. Maintenance

6.1 Cleaning

Regular cleaning helps maintain optimal performance and longevity.

- **Dust removal:** Periodically use compressed air to remove dust from the heatsink fins and fan blades. Ensure the fans are held stationary during cleaning to prevent damage.
- **Exterior cleaning:** Wipe the exterior of the card with a soft, dry, anti-static cloth.
- Always power off and unplug your computer before performing any cleaning.

6.2 Fan Operation

The GIGABYTE WindForce 3X cooling system features 3D active fans with LED indicators. The "FAN STOP" indicator illuminates when the fans are idle (not spinning) under low load or temperature conditions, indicating silent operation. The fans will automatically start spinning when temperatures rise.



Image 6.1: Side view of the graphics card, highlighting the GIGABYTE logo and the "FAN STOP" indicator.

7. Troubleshooting

- **No display on monitor:**

- Ensure the graphics card is fully seated in the PCI-Express slot.
- Verify that all necessary power connectors are securely attached to the graphics card.
- Check that the monitor cable is correctly connected to both the graphics card and the monitor.
- Test with a different monitor or cable if possible.

- **System instability or crashes:**

- Ensure the latest graphics drivers are installed.
- Check for proper ventilation and ensure the card is not overheating.
- Verify that your power supply unit (PSU) meets the recommended 500W requirement.

- **Poor performance in games/applications:**

- Ensure the latest graphics drivers are installed.
- Check in-game settings to ensure they are appropriate for your system configuration.
- Monitor GPU temperatures to rule out thermal throttling.

- For further assistance, refer to the GIGABYTE support website or contact their customer service.

8. Specifications

Feature	Detail
Model Name	GV-N1080G1 GAMING-8GD
Graphics Processing	GeForce GTX 1080
Core Clock (OC Mode)	Boost: 1860 MHz / Base: 1721 MHz
Core Clock (Gaming Mode)	Boost: 1835 MHz / Base: 1695 MHz
Memory Size	8 GB
Memory Type	GDDR5X
Memory Bus	256-bit
Memory Speed	1860 MHz
Digital Max Resolution	7680x4320 @60Hz (Requires 2*DP1.3)
Multi-view	Up to 4 displays
Card Dimensions (L x W x H)	280 x 114 x 41 mm (15.7 x 3.3 x 9.1 inches)
PCB Form	ATX
Recommended PSU	500W
Output	Dual-link DVI-D *1, HDMI 2.0b *1, DisplayPort 1.4 *3
OpenGL	4.5

9. Warranty Information

GIGABYTE products are covered by a limited warranty. The specific terms and duration of the warranty may vary by

region and product. Please retain your proof of purchase. For detailed warranty information, including registration and claims procedures, please visit the official GIGABYTE website and refer to their warranty policy section.

10. Customer Support

If you encounter any issues or have questions not covered in this manual, please contact GIGABYTE customer support.

- **GIGABYTE Official Website:** www.gigabyte.com
- **Support Page:** Look for the "Support" or "Service" section on the GIGABYTE website for drivers, FAQs, and contact information.

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