GIGABYTE GV-N166SOC-6GD

Gigabyte GV-N166SOC-6GD GeForce GTX 1660 Super OC 6G Graphics Card User Manual

Model: GV-N166SOC-6GD | Brand: GIGABYTE

Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Gigabyte GV-N166SOC-6GD GeForce GTX 1660 Super OC 6G Graphics Card. Please read this manual thoroughly before installation and retain it for future reference.



This image displays the Gigabyte GeForce GTX 1660 Super OC 6G Graphics Card alongside its retail box. The card features a dual-fan Windforce cooling system, while the box highlights key features such as GeForce GTX branding and 1660 Super designation.

Package Contents

Verify that all items listed below are included in your product package:

- Gigabyte GV-N166SOC-6GD GeForce GTX 1660 Super OC 6G Graphics Card
- User Manual (this document)

Setup

Proper installation is crucial for the optimal performance of your graphics card. Ensure your system is powered off and unplugged before proceeding.

System Requirements

- PCI Express-enabled motherboard with one x16 slot
- Minimum 450W power supply with one 8-pin PCIe power connector (check specific power requirements for your

system)

- Operating System: Windows 10, Windows 7 (64-bit recommended) or Linux
- At least 4GB system memory (8GB recommended)

Installation Steps

1. **Prepare Your System:** Power off your computer and unplug the power cord from the wall outlet. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove the metal bracket cover(s) corresponding to the slot.
3. **Insert Graphics Card:** Carefully align the graphics card with the PCIe x16 slot. Press down firmly and evenly until the card is fully seated in the slot and the retention clip clicks into place.
4. **Secure the Card:** Use the screw(s) from your computer case to secure the graphics card to the case's rear panel.
5. **Connect Power:** Locate the 8-pin PCIe power cable from your power supply. Connect it firmly to the power connector on the top edge of the graphics card.



This image shows the top side of the graphics card, featuring the 8-pin PCIe power connector. Proper connection of this power cable is essential for the card's operation.

6. **Close Case and Connect Peripherals:** Close your computer case. Reconnect all peripheral cables (monitor, keyboard, mouse, etc.) and the power cord.
7. **Install Drivers:** Power on your computer. Once the operating system loads, you will need to install the latest graphics drivers. Visit the official GIGABYTE or NVIDIA website to download the most current drivers for the GeForce GTX 1660 Super. Follow the on-screen instructions for driver installation.

Operating

Once installed and drivers are set up, your Gigabyte graphics card is ready for use. It will automatically handle graphics processing for your system.

Connecting Displays

The Gigabyte GV-N166SOC-6GD graphics card supports multiple display outputs. You can connect your monitor(s) to the available ports on the card's rear I/O panel.



A rear view of the graphics card, illustrating the various display output ports. This model includes one HDMI port and three DisplayPort connections, allowing for multiple monitor setups.

- **HDMI:** Connect to an HDMI-compatible display.
- **DisplayPort:** Connect to a DisplayPort-compatible display.

After connecting your display(s), your operating system should automatically detect them. You can configure display settings (resolution, multiple monitors, etc.) through your operating system's display settings or the NVIDIA Control Panel, which is installed with the drivers.

Software and Utilities

Gigabyte provides utility software, such as AORUS Engine, which allows for monitoring, overclocking, and fan control of your graphics card. This software can be downloaded from the official Gigabyte website.

Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your graphics card.

Dust Removal

Dust accumulation can impede cooling performance. Periodically, with the system powered off and unplugged, use compressed air to gently blow dust out of the heatsink fins and fan blades. Hold the fan blades in place while blowing air to prevent over-spinning.

Fan Care

Ensure that the graphics card fans are free from obstructions and spin freely. Avoid touching the fan blades directly when the system is on.

Troubleshooting

If you encounter issues with your graphics card, refer to the following common problems and solutions:

- **No Display Output:**
  - Ensure the monitor cable is securely connected to the graphics card and the monitor.
  - Verify that the graphics card is fully seated in the PCIe slot.
  - Check that the 8-pin PCIe power connector is securely attached to the graphics card.
  - Try connecting to a different display port on the card or a different monitor.
  - Ensure your monitor is set to the correct input source.
- **System Not Booting or Freezing:**
  - Confirm your power supply meets the minimum wattage requirement for the graphics card.
  - Reseat the graphics card in its PCIe slot.
  - Check for any loose cables inside the computer.
- **Driver Issues or Performance Problems:**
  - Download and install the latest graphics drivers from the official NVIDIA or GIGABYTE website.
  - Perform a clean installation of the drivers (uninstall old drivers before installing new ones).
  - Ensure your operating system is up to date.
  - Check for overheating. Monitor GPU temperatures using utility software. Ensure proper airflow in your PC case.
- **Fan Noise or Malfunction:**
  - Check for dust accumulation on the fans and heatsink. Clean as described in the Maintenance section.
  - Ensure no cables are obstructing the fan blades.
  - If a fan is making unusual noises or not spinning, contact Gigabyte support.

Specifications

Detailed technical specifications for the Gigabyte GV-N166SOC-6GD GeForce GTX 1660 Super OC 6G Graphics Card:

Feature	Specification
Graphics Processing Unit	NVIDIA GeForce GTX 1660 Super
Core Clock	OC Mode: 1830 MHz (Reference Card: 1785 MHz)
CUDA Cores	1408
Memory Clock	14000 MHz
Memory Size	6 GB
Memory Type	GDDR6
Memory Bus	192-bit
Card Bus	PCI Express 3.0 x16

Feature	Specification
Digital Max Resolution	7680x4320 @60Hz
Multi-view	4
Output	1 x HDMI 2.0b, 3 x DisplayPort 1.4
Dimensions (L x W x H)	225.65 x 122.02 x 40.5 mm (8.82 x 4.76 x 1.57 inches)
Power Requirement	450W (minimum recommended PSU)
Power Connectors	1 x 8-pin

Warranty and Support

Your Gigabyte GV-N166SOC-6GD GeForce GTX 1660 Super OC 6G Graphics Card is covered by a manufacturer's warranty. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical support, driver updates, or warranty inquiries, please visit the official GIGABYTE website or contact their customer service directly. You can typically find support contact information and FAQs on their website:

GIGABYTE Official Website: https://www.gigabyte.com/

Always refer to the official Gigabyte resources for the most accurate and up-to-date support information.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question