GIGABYTE GV-N406TEAGLE OC-8GD

GIGABYTE GeForce RTX 4060 Ti Eagle OC 8G Graphics Card User Manual

Model: GV-N406TEAGLE OC-8GD

Introduction

Welcome to the user manual for your GIGABYTE GeForce RTX 4060 Ti Eagle OC 8G Graphics Card. This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your new graphics card. Designed for optimal performance in gaming and creative applications, this card leverages NVIDIA's advanced architecture to deliver stunning visuals and efficient processing.



Figure 1: GIGABYTE GeForce RTX 4060 Ti Eagle OC 8G Graphics Card and its retail packaging.

Key Features

- Powered by NVIDIA DLSS 3, ultra-efficient Ada Lovelace architecture, and full ray tracing.
- 4th Generation Tensor Cores: Up to 4x performance with DLSS 3.
- 3rd Generation RT Cores: Up to 2x ray tracing performance.
- Integrated with 8GB GDDR6 128-bit memory interface.
- WINDFORCE Cooling System for efficient heat dissipation.
- RGB Fusion for customizable lighting effects.
- Dual BIOS for flexible performance profiles.
- Protection metal back plate for enhanced durability.

Setup Guide

System Requirements

Before installation, ensure your system meets the following minimum requirements:

- PCI Express-compliant motherboard with one dual-width x16 graphics slot.
- Minimum 550W power supply with one 8-pin PCIe power connector.
- Microsoft Windows 10/11 64-bit operating system.
- 8GB system memory (RAM) or more recommended.
- Internet connection for driver downloads.

Installation Steps

1. **Preparation:** Power off your computer and unplug all cables. Open your computer case.
2. **Remove Old Graphics Card (if applicable):** Unscrew and carefully remove any existing graphics card.
3. **Install New Graphics Card:** Locate an available PCI Express x16 slot on your motherboard. Align the graphics card with the slot and press down firmly until it is securely seated. Ensure the retention clip on the motherboard clicks into place.
4. **Secure the Card:** Secure the graphics card to the computer case with screws.
5. **Connect Power:** Connect the 8-pin PCIe power connector from your power supply to the graphics card.
6. **Close Case and Reconnect:** Close your computer case, reconnect all cables, and power on your computer.
7. **Driver Installation:** Once Windows loads, install the latest NVIDIA drivers from the official GIGABYTE or NVIDIA website.



Figure 2: Graphics card dimensions for compatibility check (Length: 10.7 inches, Width: 4.5 inches, Height: 1.6 inches).

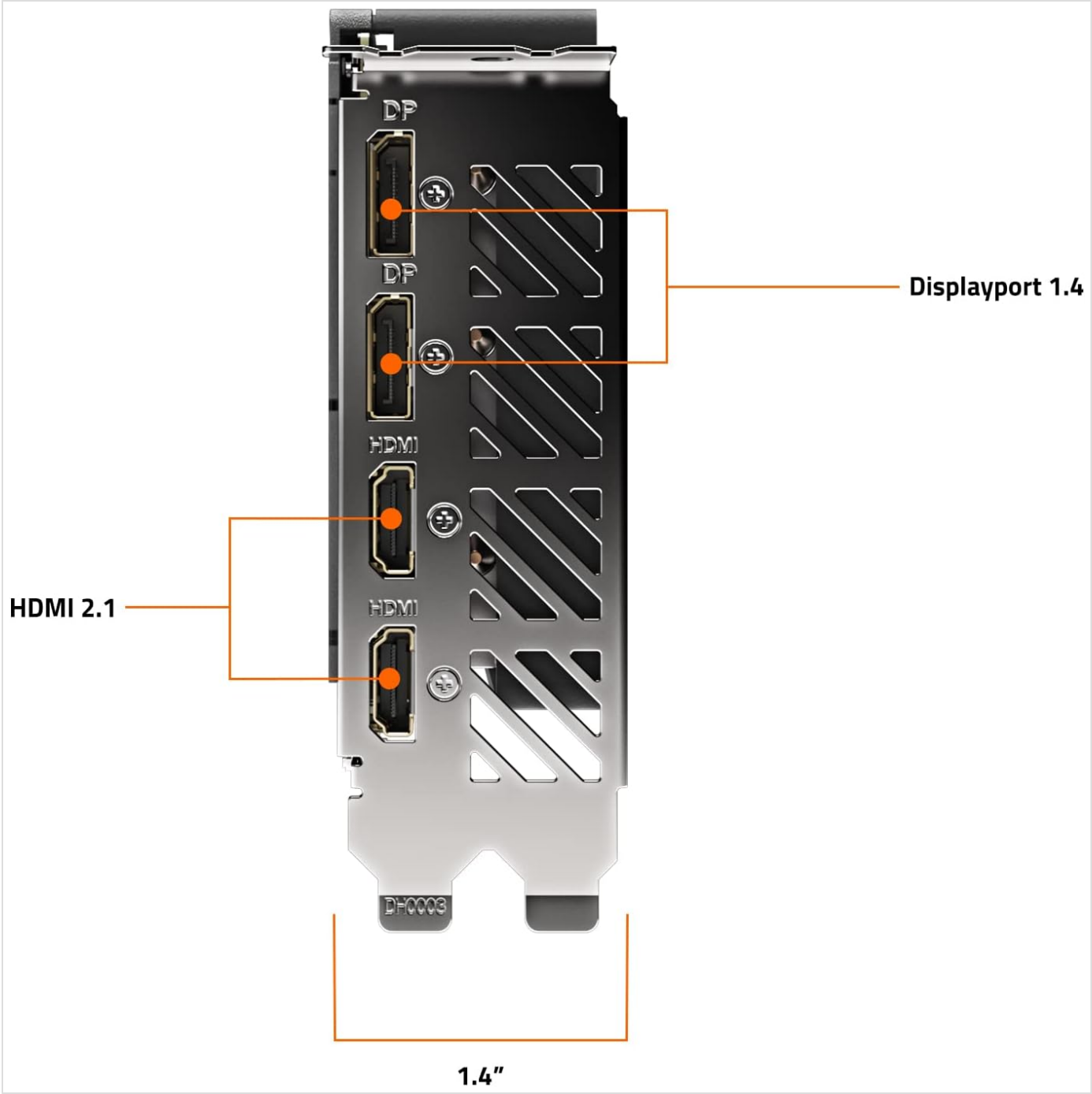


Figure 3: Rear view of the graphics card showing DisplayPort 1.4 and HDMI 2.1 outputs.

Operating Instructions

After successful installation and driver setup, your GIGABYTE GeForce RTX 4060 Ti Eagle OC 8G Graphics Card is ready for use. For optimal performance, ensure your display is connected to one of the card's output ports (DisplayPort or HDMI).

Driver Management

- **NVIDIA GeForce Experience:** Install NVIDIA GeForce Experience software to automatically optimize game settings, update drivers, and record gameplay.
- **Driver Updates:** Regularly check for and install the latest graphics drivers from the official NVIDIA website (www.nvidia.com/drivers) to ensure compatibility and performance improvements for new games and applications.

Performance Optimization

- **Game Settings:** Adjust in-game graphics settings to balance visual quality and frame rate according to your

preference.

- **DLSS and Ray Tracing:** Enable NVIDIA DLSS (Deep Learning Super Sampling) and Ray Tracing in supported games for enhanced visual fidelity and performance.
- **GIGABYTE Control Center:** Utilize GIGABYTE's proprietary software (if available for this model) for fine-tuning clock speeds, fan curves, and RGB lighting.

Maintenance

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

- **Dust Removal:** Periodically clean dust from the heatsink fins and fan blades using compressed air. Ensure fans are not spinning during cleaning.
- **Airflow:** Maintain good airflow within your PC case by ensuring proper cable management and clear intake/exhaust vents.
- **Driver Updates:** As mentioned in operating instructions, keep your drivers updated.

Troubleshooting

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

Problem	Possible Cause	Solution
No display/Black screen	Incorrect cable connection, loose card, power issue, driver issue.	Ensure display cable is securely connected to the graphics card. Verify the graphics card is fully seated in the PCIe slot. Check that the 8-pin PCIe power connector is properly attached. Try connecting to a different display output on the card. Boot into Safe Mode and reinstall drivers.
Low frame rates/Poor performance	Outdated drivers, high in-game settings, overheating, background applications.	Update graphics drivers to the latest version. Lower in-game graphics settings. Monitor GPU temperatures; ensure adequate case airflow. Close unnecessary background applications.
System crashes/Freezes	Overheating, unstable overclock, driver conflict, insufficient power.	Check GPU temperatures. If overclocked, revert to default settings. Perform a clean installation of graphics drivers. Ensure your power supply meets the minimum wattage requirement.

Specifications

Feature	Detail
Model Number	GV-N406TEAGLE OC-8GD
Graphics Coprocessor	NVIDIA GeForce RTX 4060 Ti
Graphics Card RAM Size	8 GB GDDR6
Memory Speed	18000 MHz
Max Screen Resolution	7680x4320
Video Output Interface	DisplayPort, HDMI
Item Weight	2.2 pounds
Product Dimensions (LxWxH)	10.71 x 4.53 x 1.61 inches
Manufacturer	GIGABYTE

Warranty and Support

Your GIGABYTE GeForce RTX 4060 Ti Eagle OC 8G Graphics Card comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty information included with your product packaging or visit the official GIGABYTE website.
For technical support, driver downloads, and frequently asked questions, please visit the GIGABYTE support page or their official brand store:

Visit GIGABYTE Store on Amazon

© 2025 GIGABYTE. All rights reserved. GeForce RTX is a trademark of NVIDIA Corporation.

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