ASUS DUAL-RTX4060-O8G-V2

ASUS Dual GeForce RTX 4060 V2 OC Edition Graphics Card User Manual

Model: DUAL-RTX4060-O8G-V2

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your ASUS Dual GeForce RTX 4060 V2 OC Edition graphics card. Please read this manual thoroughly before installation to ensure proper usage and to maximize the performance and longevity of your product.
The ASUS Dual RTX 4060 8GB OC V2 Edition is designed to deliver excellent performance for PC users. It incorporates NVIDIA technologies such as DLSS 3 and RTX ray tracing, along with ASUS's Axial-tech fan design and 0dB Technology for efficient cooling and quiet operation.

2. Product Features

- **NVIDIA DLSS 3:** Powered by NVIDIA DLSS3, ultra-efficient Ada Lovelace architecture, and full ray tracing for enhanced graphics performance.
- **4th Generation Tensor Cores:** Offers up to 4x performance with DLSS 3 compared to brute-force rendering.
- **3rd Generation RT Cores:** Provides up to 2x ray tracing performance for realistic lighting and shadows.
- **OC Mode:** Achieves 2535 MHz (Boost Clock) for overclocked performance. Default Mode: 2505 MHz (Boost Clock).
- **Axial-tech Fan Design:** Features a smaller fan hub that facilitates longer blades and a barrier ring that increases downward air pressure for improved cooling.
- **0dB Technology:** An advanced controller brings fans to a complete stop when the GPU temperature is below 50 degrees Celsius, allowing for silent operation during light gaming or low-load tasks.
- **Protective Backplate:** A rigid backplate prevents PCB flex and trace damage, enhancing durability.
- **Auto-Extreme Technology:** An automated manufacturing process that completes all component soldering in a single pass, reducing thermal strain on components and improving reliability.



Figure 2.1: Front view of the ASUS Dual GeForce RTX 4060 V2 OC Edition graphics card, showcasing its dual Axial-tech fans.

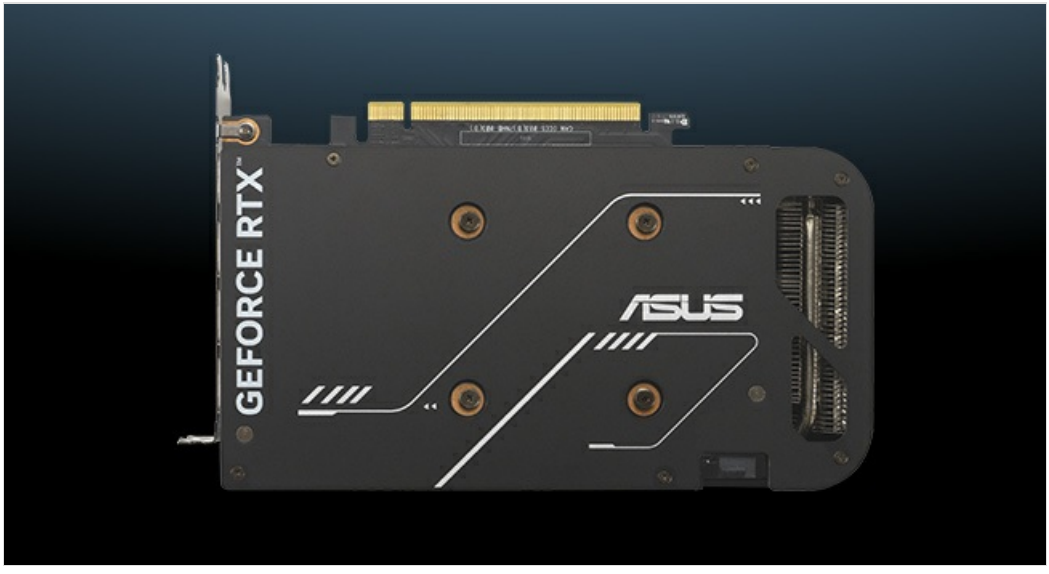


Figure 2.2: Illustration of the Axial-tech fan design, highlighting the smaller fan hub and barrier ring for increased airflow and pressure.

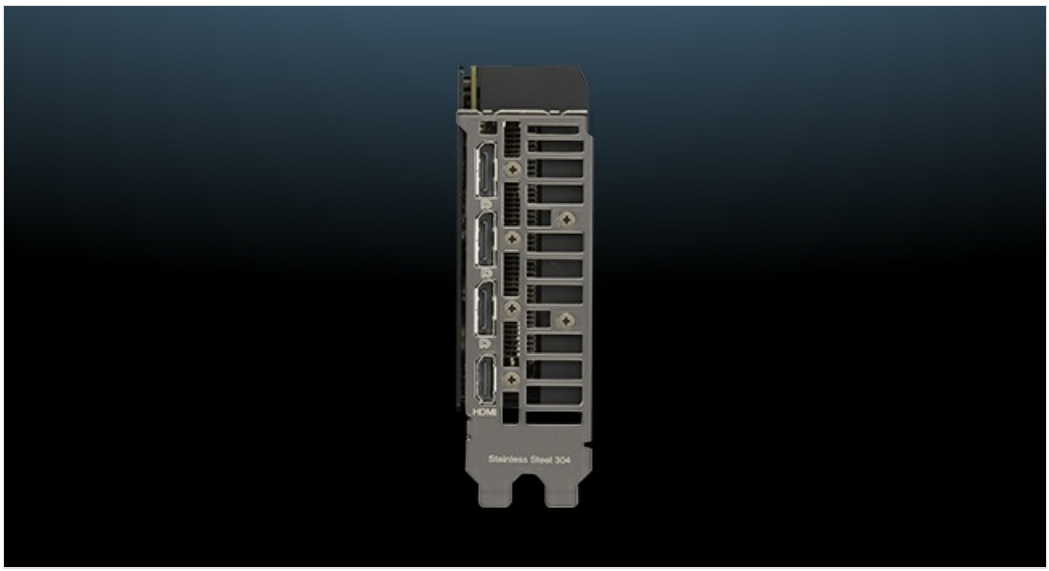


Figure 2.3: Diagram illustrating the 0dB Technology, where fans stop below 50 degrees Celsius for quiet operation.



Figure 2.4: Rear view of the graphics card, showing the protective backplate designed to prevent PCB flex and damage.

3. Package Contents

Verify that your package contains the following items:

- ASUS DUAL-RTX4060-O8G-V2 graphics card
- Speedsetup Manual

4. Setup and Installation

Before installing the graphics card, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

4.1 Hardware Installation

1. **Open your PC Case:** Remove the side panel of your computer case to access the motherboard.
2. **Locate the PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. This is typically the longest slot.
3. **Remove Slot Covers:** Remove the metal slot covers from the back of your PC case corresponding to the graphics card's size (this card is a 2-slot design).

4. **Insert the Graphics Card:** Carefully align the graphics card with the PCIe x16 slot and press it down firmly until it is securely seated. You should hear a click from the slot's retention clip.
5. **Secure the Card:** Fasten the graphics card to the PC case using the screws from the removed slot covers.
6. **Connect Power:** Connect the required 8-pin PCIe power connector from your power supply unit (PSU) to the graphics card. Ensure the connection is firm.
7. **Close PC Case:** Replace the side panel of your computer case.



Figure 4.1: Front view of the graphics card, showing the dual fan setup and overall dimensions for installation planning.





Figure 4.2: Side view of the graphics card, illustrating its 2-slot design and the heatsink fins.



Figure 4.3: Close-up of the display output interfaces, including HDMI and DisplayPort connections.

4.2 Driver Installation

1. **Power On:** Connect your monitor to one of the graphics card's display outputs (HDMI or DisplayPort) and power on your computer.
2. **Download Drivers:** Visit the official ASUS support website or NVIDIA's driver download page. Select your graphics card model (GeForce RTX 4060) and operating system.
3. **Install Drivers:** Download and run the latest graphics driver installer. Follow the on-screen instructions to complete the installation. A system restart may be required.
4. **Install Utility Software:** For advanced control and monitoring, download and install ASUS GPU Tweak III from the ASUS support website. This utility allows for overclocking, fan control, and monitoring of GPU parameters.

5. Operating Instructions

Once the drivers are installed, your graphics card is ready for use. The card automatically adjusts its performance based on the workload.

- **0dB Technology:** During light tasks or low GPU temperatures (below 50°C), the fans will stop spinning for silent operation. They will automatically activate when the temperature rises during gaming or demanding applications.
- **OC Mode:** The card comes with an OC Mode boost clock of 2535 MHz. This mode is typically enabled by default or can be activated via the ASUS GPU Tweak III software for optimal performance.
- **Display Configuration:** Use your operating system's display settings or NVIDIA Control Panel to configure multiple monitors, resolution, and refresh rates.

Video 5.1: Official ASUS video demonstrating NVIDIA AI capabilities, relevant to the RTX 4060's advanced features.

6. Maintenance

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

- **Keep Drivers Updated:** Regularly check the NVIDIA website for the latest graphics drivers. Updated drivers often include performance improvements and bug fixes.
- **Clean Dust:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning. Hold the fan blades gently to prevent them from spinning too fast during cleaning.
- **Monitor Temperatures:** Use monitoring software (like ASUS GPU Tweak III) to keep an eye on GPU temperatures, especially during heavy loads. Ensure adequate airflow within your PC case.

7. Troubleshooting

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

- **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 all necessary PCIe power connectors are securely attached to the graphics card.
  - Try connecting the monitor to a different display output on the card or to the motherboard's integrated graphics (if available) to isolate the issue.
- **Driver Issues / Crashes:**
  - Perform a clean installation of the latest graphics drivers from NVIDIA's official website.
  - Ensure your operating system is up to date.
  - If overclocking, revert to default settings to check for stability.
- **Overheating:**
  - Ensure proper airflow within your PC case.
  - Clean any dust accumulation on the heatsink and fans.
  - Verify that the fans are spinning correctly under load.

8. Specifications

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 4060
Brand	ASUS
Graphics RAM Size	8 GB
GPU Clock Speed	2535 MHz (OC Mode)
Video Output Interface	HDMI, Native DisplayPort 1.4a
Graphics RAM Type	GDDR6
Compatible Devices	Desktop
Display Resolution Maximum	7680x4320 Pixels
Graphics Card Interface	PCI-Express x16
Memory Clock Speed	2535 MHz
Number of Fans	2
Item Dimensions (L x W)	12"L x 8.6"W
Model Name	DUAL-RTX4060-O8G-V2
Item Weight	1.2 Pounds

9. Warranty and Support

Your ASUS Dual GeForce RTX 4060 V2 OC Edition graphics card comes with a **3-Year Warranty**. For detailed warranty terms and conditions, please refer to the warranty card included in your package or visit the official ASUS support website. For technical support, driver downloads, and FAQs, please visit the ASUS support website: www.asus.com/support