



[Manuals.plus](#) /

› [ASUS](#) /

› ASUS Dual GeForce RTX 5060 Ti OC 8GB GDDR7 Graphics Card User Manual

ASUS DUAL-RTX5060TI-O8G

ASUS Dual GeForce RTX 5060 Ti OC 8GB GDDR7 Graphics Card User Manual

Model: DUAL-RTX5060TI-O8G

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your ASUS Dual GeForce RTX 5060 Ti OC 8GB GDDR7 Graphics Card. Please read this manual thoroughly before installation to ensure proper usage and to maximize the performance and lifespan of your product.



Image: Front view of the ASUS Dual GeForce RTX 5060 Ti OC 8GB GDDR7 Graphics Card, showcasing its dual-fan design and sleek black and silver aesthetic.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Ensure your computer is powered off and unplugged from the wall outlet before installing or removing the graphics card.
- Discharge any static electricity from your body by touching a grounded metal object before handling the card.
- Avoid touching the gold-plated connectors on the card.
- Install the card in a well-ventilated area to prevent overheating.
- Do not expose the card to moisture or extreme temperatures.

For detailed safety guidelines, refer to the official safety documentation provided by ASUS or available on their support website.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- ASUS Dual GeForce RTX 5060 Ti OC 8GB GDDR7 Graphics Card
- Quick Start Guide (may vary by region)
- Driver CD/DVD (or instructions for online download)

4. PRODUCT OVERVIEW

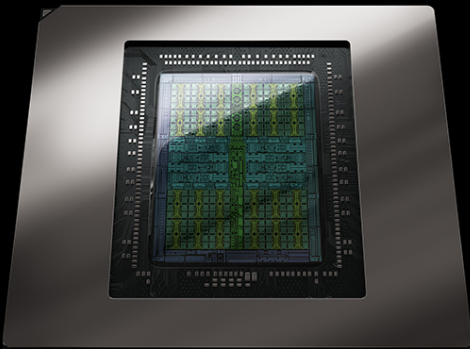
The ASUS Dual GeForce RTX 5060 Ti OC is designed for optimal gaming performance and thermal efficiency. Key features include:

- **SFF-Ready 2.5 Slot Design:** Compatible with small-form-factor builds while maintaining optimal thermal performance.
- **Axial-Tech Fans:** Features a smaller fan hub, longer blades, and a barrier ring to increase downward air pressure for improved cooling.
- **0dB Technology:** Fans stop spinning when GPU temperatures are below 50°C for silent operation during light tasks.
- **Vented Backplate:** Enhances heat dissipation, supporting better thermal performance and system stability.
- **Dual BIOS:** Allows switching between Performance and Quiet BIOS profiles.
- **GPU Protection:** ASUS GPU Guard secures the GPU to reduce the risk of cracks.
- **Protective Backplate:** Reinforces the PCB for structural rigidity, preventing flex and protecting components.
- **Stainless Steel Bracket:** Made from 304 Stainless Steel for enhanced durability and corrosion resistance.

4.1. Physical Features



Image: The ASUS Dual GeForce RTX 5060 Ti graphics card, highlighting its compact 2.5-slot design, suitable for various PC chassis sizes.



Fifth-Gen Tensor Cores
Max AI performance with FP4 and DLSS 4

New Streaming Multiprocessors
Optimized for neural shaders

Fourth-Gen Ray Tracing Cores
Built for Mega Geometry

Image: A detailed view of the cooling system, showing the vented backplate, Axial-Tech fans, and illustrating the 0dB Technology.

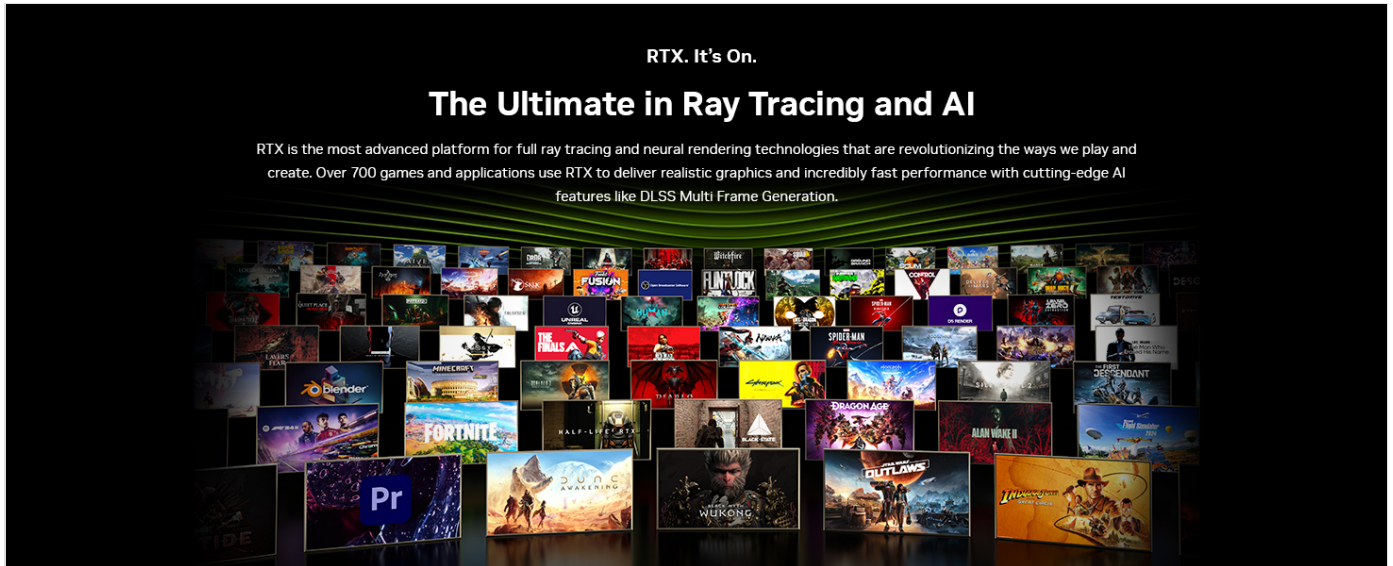


Image: Illustration of the GPU protection, protective backplate, and stainless steel bracket, emphasizing the card's durability.

5. SETUP AND INSTALLATION

5.1. System Requirements

- **PCI Express Slot:** Motherboard with one PCI Express 5.0 x16 slot.
- **Power Supply:** Minimum recommended 750W or 850W power supply (PSU) for optimal performance. Ensure your PSU has the necessary PCIe power connectors.
- **Operating System:** Compatible with Windows 10/11 (64-bit) or Linux (64-bit).
- **Memory:** 8GB system RAM or more.
- **Storage:** At least 1.5GB of available hard-disk space for driver installation.

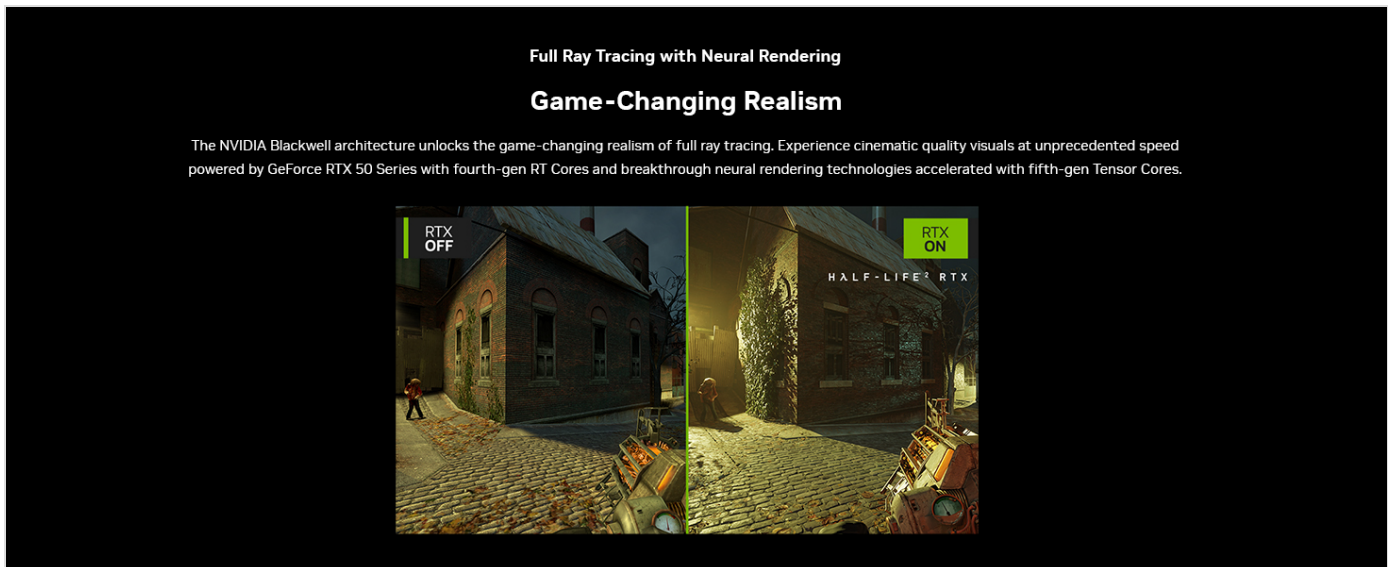


Image: The graphics card displayed alongside an ASUS Prime 750W/850W Gold power supply, indicating recommended power requirements.

5.2. Hardware Installation

1. **Power Off:** Turn off your computer and unplug the power cord from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case.
3. **Locate PCIe Slot:** Find an available PCI Express 5.0 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 firmly until it is fully seated. Ensure the

retention clip locks into place.

5. **Secure Card:** Secure the graphics card to the computer case with screws.
6. **Connect Power:** Connect the appropriate PCIe power cables from your power supply to the graphics card's power connectors.
7. **Close Case:** Replace the computer case side panel and reconnect the power cord.

5.3. Driver Installation

1. **Power On:** Turn on your computer.
2. **Download Drivers:** Visit the official ASUS support website (www.asus.com/support/) and download the latest drivers for your specific graphics card model (DUAL-RTX5060TI-O8G).
3. **Install Drivers:** Follow the on-screen instructions to install the drivers. Restart your computer if prompted.

6. OPERATING THE GRAPHICS CARD

6.1. First Use

After installing the drivers, your graphics card is ready for use. Connect your display to one of the available video output ports (HDMI or DisplayPort) on the card. The system should automatically detect the card and display output.

6.2. Dual BIOS Switch

Your graphics card features a Dual BIOS switch, allowing you to select between two operational modes:

- **Performance Mode (P Mode):** Maximizes cooling performance for demanding tasks and gaming.
- **Quiet Mode (Q Mode):** Utilizes a less aggressive fan curve for quieter operation during lighter workloads, without altering power settings.

To switch modes, power off your computer, locate the BIOS switch on the graphics card, and slide it to your desired setting. Power on the computer for the new setting to take effect.



Image: Close-up of the Dual BIOS switch on the graphics card, showing the 'P Mode' and 'Q Mode' options.

6.3. Software Features

ASUS provides software tools to enhance your graphics card experience:

- **GPU Tweak III:** An ultimate GPU tuning tool for overclocking, cooling control, and monitoring your graphics card.
- **MuseTree:** An AI-powered image-generation application designed to spark creativity and manage images.

These tools can be downloaded from the ASUS support website.



7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your graphics card:

- **Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check the ASUS support website for the latest graphics drivers. Keeping drivers updated can improve performance and stability.
- **Temperature Monitoring:** Use monitoring software (like GPU Tweak III) to keep an eye on GPU temperatures, especially during heavy loads, to prevent overheating.

8. TROUBLESHOOTING

If you encounter issues with your graphics card, try the following 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 cables are connected to the graphics card.
 - Test with a different display cable or monitor if possible.
- **Poor Performance/Low FPS:**
 - Ensure you have the latest graphics drivers installed.
 - Check in-game graphics settings; reduce them if necessary.
 - Monitor GPU temperatures to ensure the card is not throttling due to overheating.
 - Verify your system meets the recommended specifications for the applications you are running.
- **System Instability/Crashes:**
 - Ensure your power supply meets the minimum wattage requirement.
 - Check for any conflicting software or outdated motherboard BIOS.
 - Reinstall graphics drivers cleanly.

If problems persist, contact ASUS customer support for further assistance.

9. SPECIFICATIONS

Feature	Specification
Model Name	DUAL-RTX5060TI-O8G
Graphics Processor	NVIDIA GeForce RTX 5060 Ti
Video Memory	8GB GDDR7
GPU Clock Speed (OC Mode)	2632 MHz
GPU Clock Speed (Default Mode)	2602 MHz
Memory Interface	GDDR7
Interface	PCI Express 5.0

Feature	Specification
Video Output	HDMI 2.1b, DisplayPort 2.1b
Maximum Digital Resolution	7680 x 4320
Dimensions (L x W)	22.9 cm x 12 cm (Approximate)
Cooling	Dual Axial-Tech Fans with 0dB Technology
Slots	2.5 Slot Design
Recommended PSU	750W / 850W

Note: Specifications are subject to change without notice. Please refer to the official ASUS product page for the most up-to-date information.

10. WARRANTY AND SUPPORT

10.1. Warranty Information

This ASUS graphics card comes with a **2-year manufacturer's warranty**. The warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

The warranty does not cover damage caused by improper installation, accident, abuse, misuse, natural disaster, insufficient or excessive electrical supply, abnormal mechanical or environmental conditions, or any unauthorized disassembly, repair, or modification.

10.2. Technical Support

For technical support, driver downloads, FAQs, and further product information, please visit the official ASUS support website:

www.asus.com/support/

You may also find contact information for your regional ASUS support center on the website.