ASUS DUAL-RX9060XT-16G

ASUS Dual Radeon RX 9060 XT 16GB GDDR6 Graphics Card User Manual

Model: DUAL-RX9060XT-16G

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your ASUS Dual Radeon RX 9060 XT 16GB GDDR6 Graphics Card. Please read this manual thoroughly before installation and keep it for future reference. This graphics card is designed to deliver powerful thermal performance and broad compatibility for gaming and demanding applications.

SAFETY INFORMATION

- Always disconnect the power supply from your computer before installing or removing any components.

- Handle the graphics card by its edges to avoid touching sensitive components.

- Ensure proper grounding to prevent electrostatic discharge (ESD) damage.

- Do not twist or bend the graphics card during installation.

- Make sure the PCIe card socket locking mechanism on the motherboard is open before inserting or removing the graphics card.

- Avoid shaking and excessive movement of the PC system when the graphics card is installed. If a support bracket is bundled, it should be removed when the PC system is being moved.

PACKAGE CONTENTS

Verify that all items are present in your package:

- ASUS Dual Radeon RX 9060 XT 16GB GDDR6 Graphics Card (DUAL-RX9060XT-16G)

- Thank you card

- Quick Start Guide

PRODUCT OVERVIEW

The ASUS Dual Radeon RX 9060 XT is engineered for optimal performance and durability. Key features include:

Compact 2.5-Slot Design

This graphics card features a compact 2.5-slot design, allowing for greater build compatibility, especially in smaller form-factor PC cases, while maintaining effective cooling performance.

Image: The ASUS Dual Radeon RX 9060 XT graphics card showcasing its compact 2.5-slot design.

Advanced Cooling Solutions

The card incorporates advanced cooling technologies to ensure stable operation even under heavy workloads.

- **Axial-tech Fan Design:** The fans feature a smaller hub that facilitates longer blades and a barrier ring, increasing downward air pressure for improved airflow and dispersion.

- **0dB Technology:** For quieter operation during light gaming or less demanding tasks, the fans stop completely when the GPU temperature is below 55°C. They restart at 60°C to balance performance and acoustics.

- **Vented Backplate:** A strategically vented backplate enhances heat dissipation, helping to keep the GPU cooler during intense tasks and improving overall system stability.
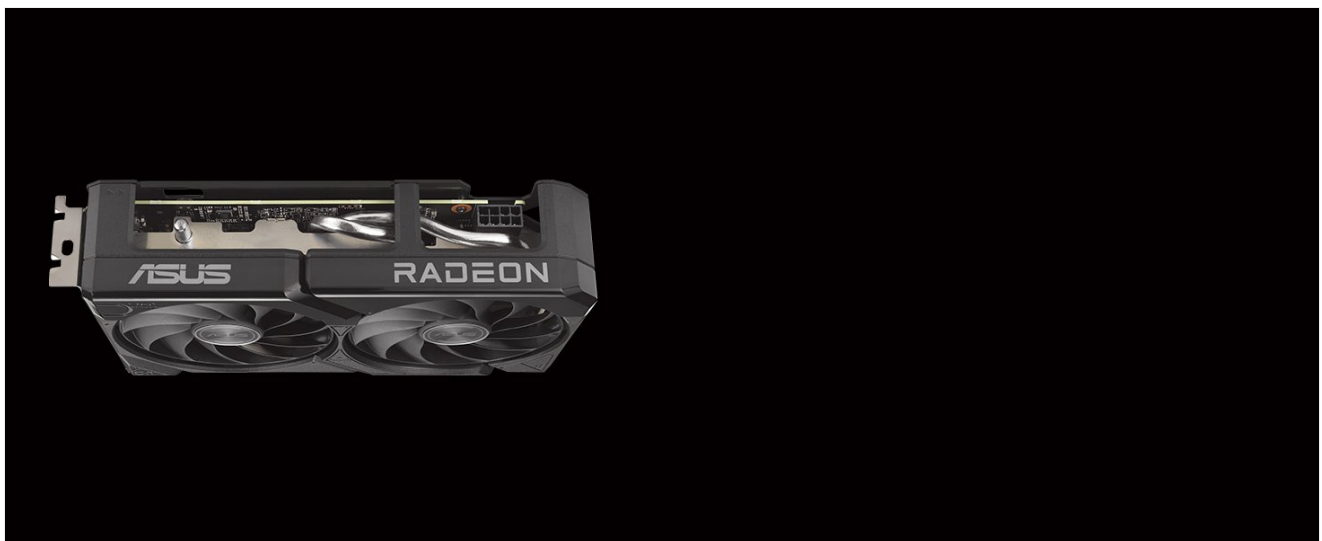

Image: An illustration detailing the cooling features, including the vented backplate and Axial-tech fans.

Enhanced Reliability

Built for longevity and stability, the graphics card includes several features to protect its components.

- **GPU Protection:** ASUS GPU Guard applies adhesive to secure all four corners of the GPU, reducing the risk of cracks.

- **Protective Backplate:** The PCB is reinforced by a backplate that adds structural rigidity, preventing flex and protecting components and trace pathways from damage.

- **Stainless Steel Bracket:** The mounting bracket is made from 304 Stainless Steel, which is harder and more resistant to corrosion.
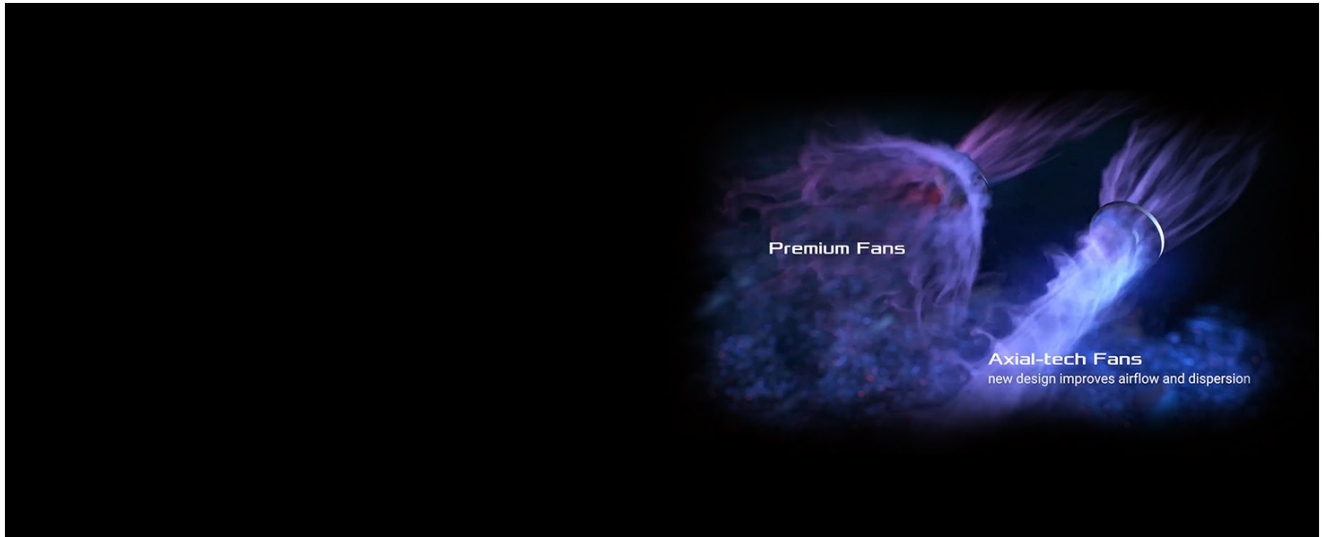

Image: A visual representation of the GPU protection, protective backplate, and stainless steel bracket.

Dual BIOS Switch

The Dual BIOS switch allows you to toggle between two distinct profiles: Performance mode and Quiet mode. Performance mode maximizes cooling for demanding tasks, while Quiet mode uses a less aggressive fan curve for quieter operation without altering power settings.
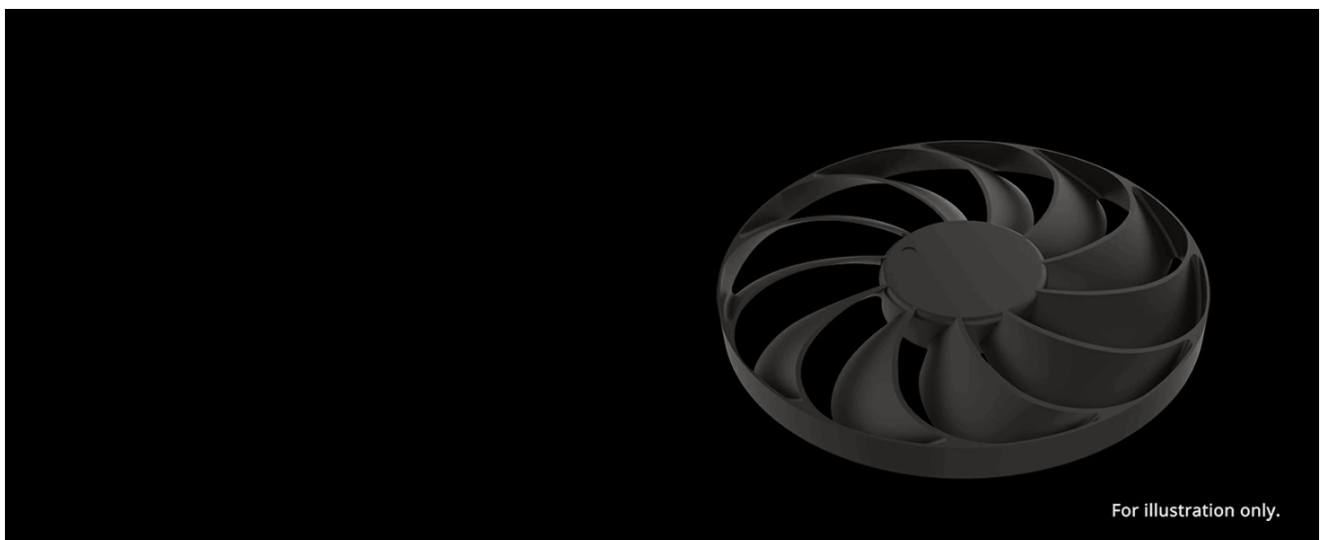

Image: A close-up view of the physical Dual BIOS switch on the graphics card.

Official Product Video

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Video: An official overview of the ASUS Dual Radeon RX 9060 XT graphics card, highlighting its design and features.

SETUP

1. Physical Installation

1. **Prepare Your System:** Turn off your computer and disconnect the power cable. Open your PC case.

2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.

3. **Remove Slot Covers:** Remove the necessary expansion slot covers from your PC case that correspond to the graphics card's size (2.5 slots).

4. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press it down firmly until it is securely seated. The locking mechanism on the motherboard should click into place.

5. **Secure the Card:** Fasten the graphics card to the PC case with screws.

6. **Connect Power:** Connect the appropriate PCIe power connectors from your power supply unit (PSU) to the graphics card. This model typically requires an 8-pin connector. Ensure all connections are secure.

7. **Close Case and Connect Display:** Close your PC case, reconnect the power cable, and connect your display monitor(s) to the graphics card's output ports (HDMI 2.1b, DisplayPort 2.1a).

2. Driver Installation

1. **Power On:** Turn on your computer.

2. **Initial Boot:** Your operating system may install a basic display driver automatically.

3. **Download Drivers:** Visit the official ASUS support website (www.asus.com/support/). Navigate to 'Drivers & Utility', select 'Graphics Cards', find your model (DUAL-RX9060XT-16G), and download the latest AMD Radeon drivers for your operating system.

4. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. Restart your computer when prompted.

5. **Verify Installation:** After restarting, verify that the drivers are correctly installed through your operating system's device manager or the AMD Radeon Software.

OPERATING

Dual BIOS Configuration

The Dual BIOS switch on your graphics card allows you to select between two operational modes:

- **Performance Mode (P Mode):** Provides maximum cooling performance, suitable for demanding gaming sessions or heavy workloads.

- **Quiet Mode (Q Mode):** Prioritizes silent operation by using a less aggressive fan curve, ideal for light tasks or when noise reduction is preferred.

To switch modes, ensure your PC is powered off, then physically move the switch on the graphics card to your desired setting. Restart your PC for the changes to take effect.

GPU Tweak III Software

ASUS GPU Tweak III is a utility that allows you to monitor, tune, and optimize your graphics card's performance. You can download it from the ASUS support website.

- **Overclocking:** Adjust GPU clock speeds and memory frequencies for increased performance.

- **Cooling Control:** Customize fan curves to balance cooling efficiency and noise levels.

- **Monitoring:** View real-time information on GPU temperature, clock speeds, fan speeds, and power consumption.

- **BIOS Profiles:** Manage and switch between different BIOS profiles directly from the software.
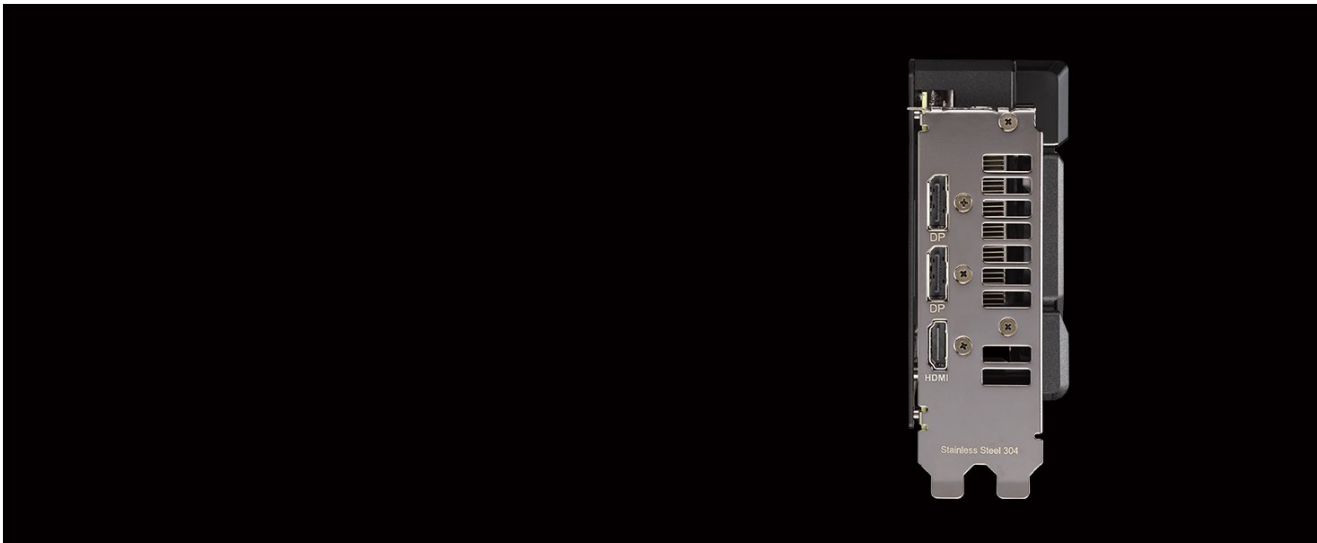

Image: A screenshot of the GPU Tweak III software, showing various tuning and monitoring options.

MAINTENANCE

- **Cleaning:** Periodically clean dust from the graphics card fans and heatsink using compressed air. Ensure the PC is powered off and unplugged before cleaning.

- **Driver Updates:** Regularly check the ASUS support website for the latest graphics drivers to ensure optimal performance and compatibility.

- **System Airflow:** Maintain good airflow within your PC case to prevent overheating. Ensure case fans are functioning correctly and not obstructed.

TROUBLESHOOTING

- **No Display Output:** Ensure the graphics card is fully seated in the PCIe slot and all power connectors are securely attached. Check that your monitor is connected to the graphics card, not the motherboard's integrated graphics.

- **System Instability/Crashes:** Ensure you have the latest graphics drivers installed. Check for overheating using monitoring software like GPU Tweak III. Verify your power supply unit (PSU) meets the minimum wattage requirements for your system, including the graphics card.

- **Fan Noise:** If fans are excessively loud, check for dust buildup and clean the card. In GPU Tweak III, adjust fan curves to a quieter profile if desired. Ensure the Dual BIOS switch is set to Quiet Mode if preferred.

- **Performance Issues:** Confirm that your system meets the recommended specifications for the applications or games you are running. Ensure drivers are up to date. Check for background processes consuming resources.

SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	AMD Radeon RX 9060 XT

Feature	Specification
Graphics Card RAM Size	16 GB GDDR6
GPU Clock Speed (OC Mode)	Up to 3250 MHz (Boost Clock) / Up to 2640 MHz (Game Clock)
GPU Clock Speed (Default Mode)	Up to 3230 MHz (Boost Clock) / Up to 2620 MHz (Game Clock)
Memory Speed	3250 MHz
Max Screen Resolution	7680x4320 Pixels
Video Output Interface	Native DisplayPort 2.1a x2, Native HDMI 2.1b x1
Item Model Number	DUAL-RX9060XT-16G
Item Weight	1.3 pounds
Product Dimensions	8 x 4.7 x 1.9 inches

WARRANTY AND SUPPORT

ASUS products are designed with quality and reliability in mind. For detailed warranty information, please refer to the warranty card included in your product packaging or visit the official ASUS support website.

If you encounter any issues or require technical assistance, please contact ASUS customer support through their official website:

ASUS Support Website

Please have your product model number (DUAL-RX9060XT-16G) and serial number ready when contacting support.