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ASUS DUAL-RX7600-O8G-EVO

ASUS Dual Radeon RX 7600 EVO OC Edition Graphics Card User Manual

Model: DUAL-RX7600-O8G-EVO

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your ASUS Dual Radeon RX 7600 EVO OC Edition Graphics Card. Please read this manual thoroughly before installation to ensure proper usage and to maximize the performance and lifespan of your product.



Image: The ASUS Dual Radeon RX 7600 EVO OC Edition Graphics Card, shown with its packaging. This image provides an overview of the product and its retail presentation.

2. Setup Guide

2.1 Unboxing

Carefully remove the graphics card from its packaging. Ensure all components listed in the 'What's in the Box' section are present.

- Graphics Card

2.2 Hardware Installation

Follow these steps to install the graphics card into your computer system:

1. **Power Off:** Shut down your computer and disconnect the power cable.

2. **Open Case:** Open your computer case to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
4. **Remove Slot Cover:** Remove the metal slot cover(s) from the back of your computer case corresponding to the chosen PCIe slot.
5. **Insert Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip on the PCIe slot locks into place.
6. **Secure Card:** Use screws to secure the graphics card bracket to the computer case.
7. **Connect Power:** Connect the required PCIe power connectors from your power supply unit (PSU) to the graphics card. Refer to your PSU manual for correct cable identification.
8. **Close Case:** Close your computer case and reconnect the power cable.



Image: The protective backplate of the graphics card. This rigid backplate helps prevent PCB flex and trace damage during installation and use.

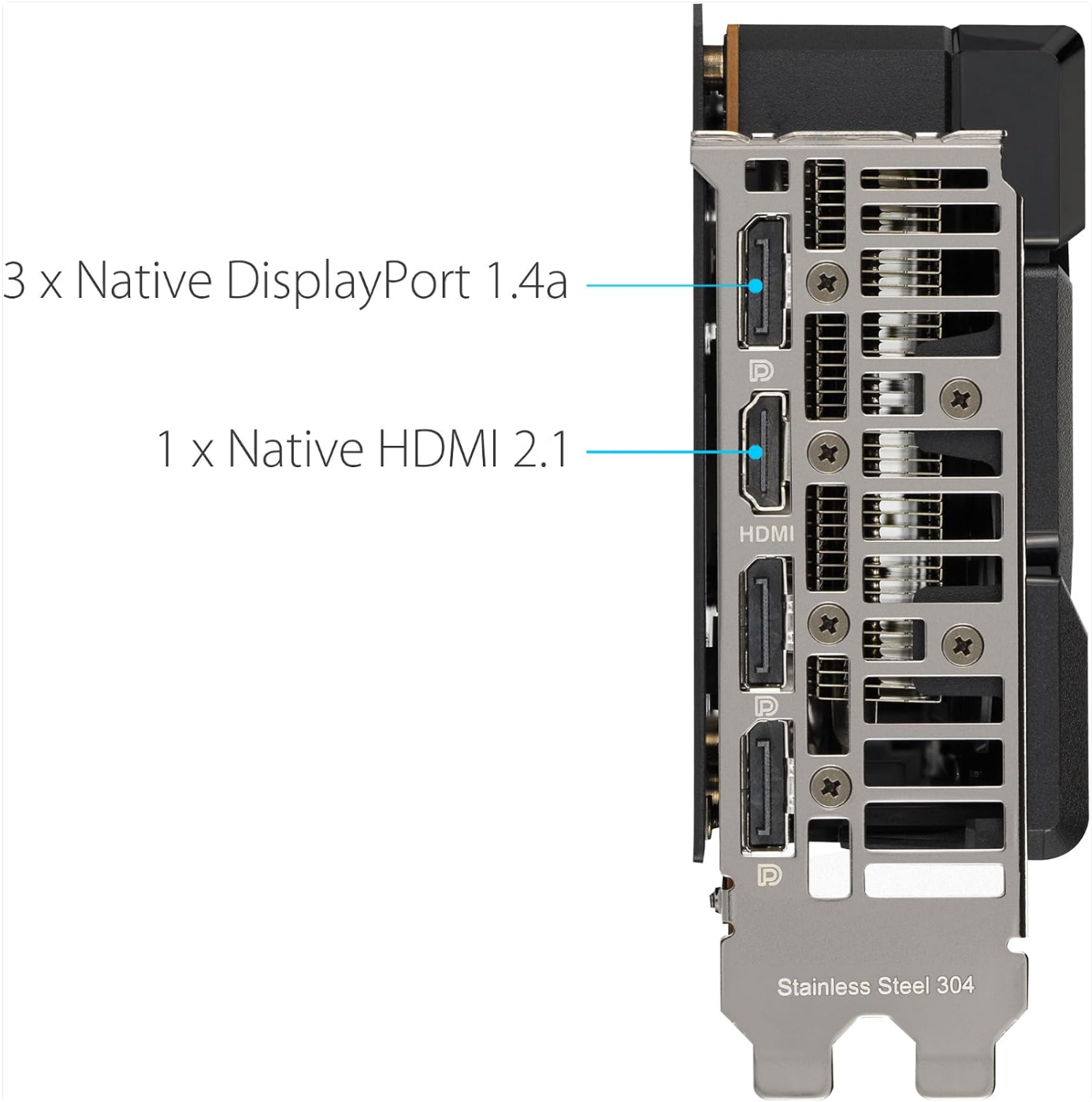


Image: The display output interface of the graphics card, featuring three DisplayPort 1.4a ports and one HDMI 2.1 port for connecting to monitors.

2.3 Driver Installation

After hardware installation, install the necessary drivers for optimal performance:

1. **Power On:** Turn on your computer.
2. **Download Drivers:** Visit the official ASUS support website or AMD's official website to download the latest drivers for the Radeon RX 7600 series.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions.
4. **Restart:** Restart your computer after the driver installation is complete.

3. Operating Instructions

3.1 Initial Power-On

Upon successful installation and driver setup, your system should recognize the graphics card. Connect your display cable(s) to the graphics card's output ports (HDMI or DisplayPort).

3.2 Software Configuration (GPU Tweak III)

The ASUS GPU Tweak III software allows for performance tuning, thermal control, and system monitoring. Download it from the ASUS support website.

- **Performance Modes:** Select from various modes like OC Mode for boosted clock speeds, Silent Mode for quieter operation, or create custom profiles.
- **Monitoring:** Monitor GPU temperature, clock speeds, fan speeds, and power consumption in real-time.
- **Overclocking:** Adjust GPU clock, memory clock, and voltage settings for advanced users.
- **Fan Control:** Manually adjust fan curves or enable 0dB technology for silent operation during light loads.

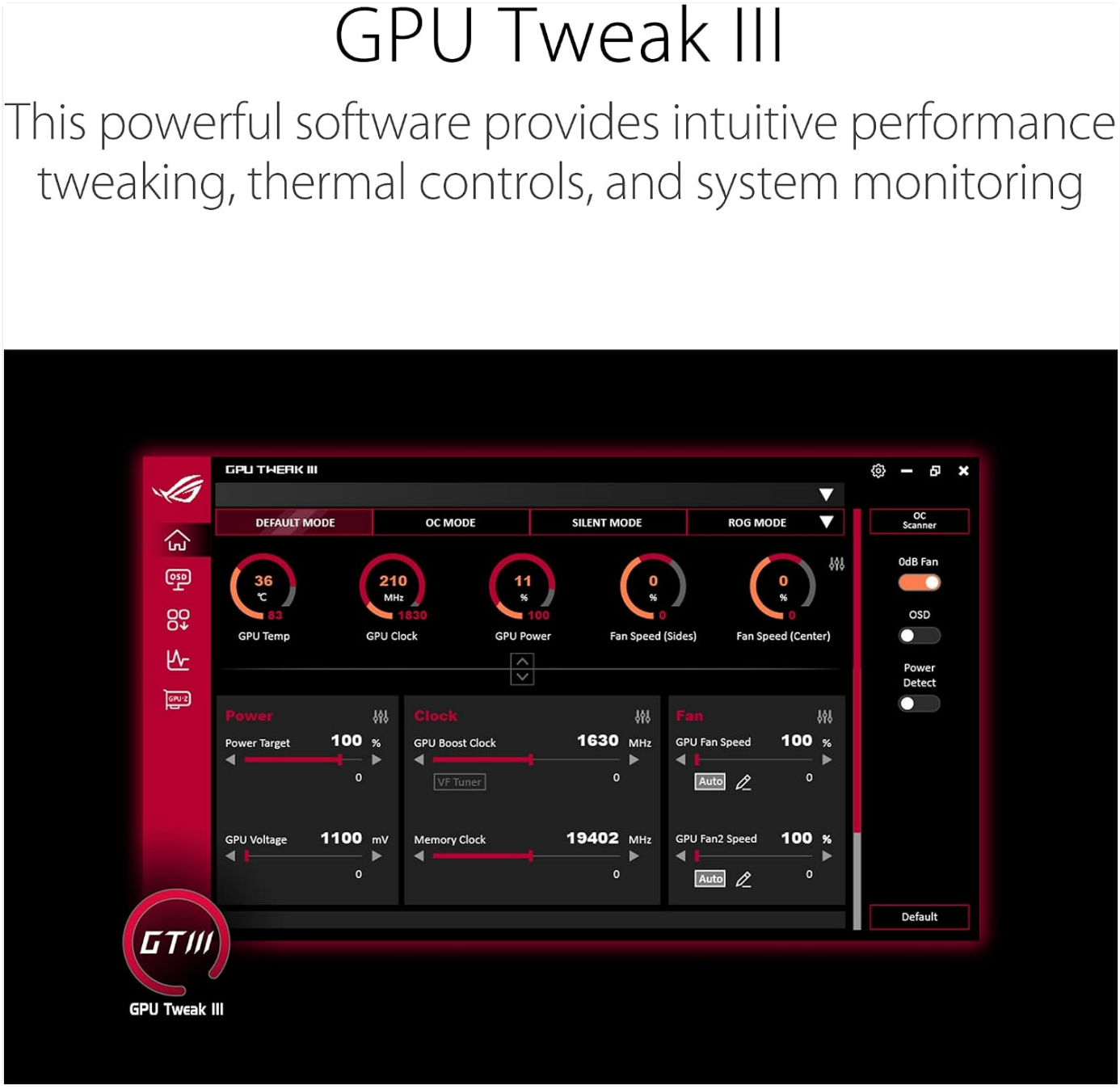


Image: The GPU Tweak III software interface, displaying options for performance modes, monitoring, and fan control. This software allows users to customize their graphics card's settings.

4. Maintenance

4.1 Cleaning

Regular cleaning helps maintain optimal performance and cooling efficiency.

- **Power Off:** Always power off your computer and disconnect it from the power source before cleaning.
- **Dust Removal:** Use compressed air to gently remove dust from the heatsink fins and fan blades. Hold the fans to prevent them from spinning rapidly during cleaning.
- **Surface Cleaning:** Wipe the exterior surfaces with a soft, dry, lint-free cloth. Avoid using liquid cleaners directly on the card.

4.2 Fan Care

The Axial-Tech Fan Design and Dual Ball Bearings contribute to efficient cooling and durability.

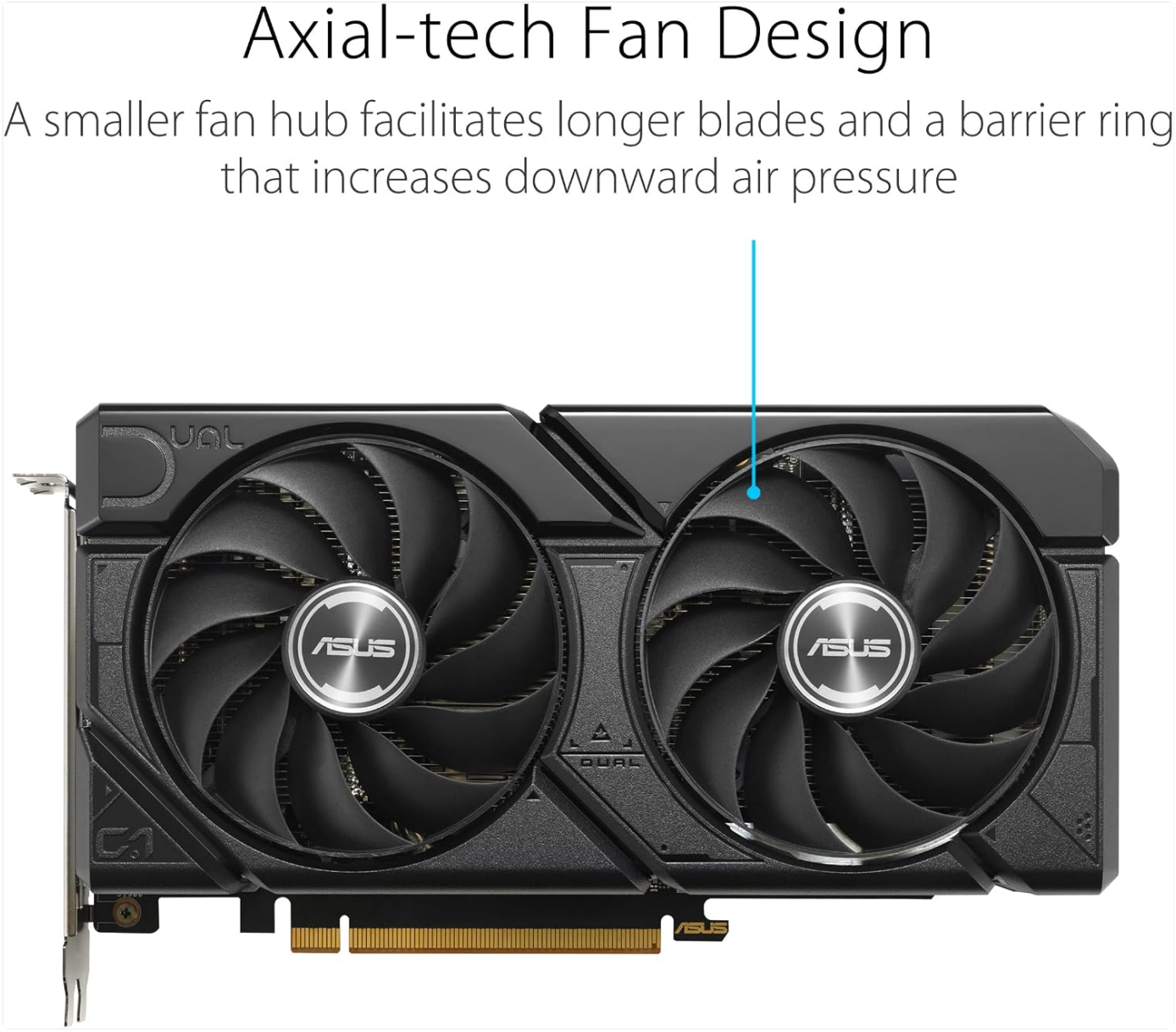


Image: A detailed view of the Axial-Tech Fan Design. This design features a smaller fan hub and a barrier ring to increase downward air pressure for improved cooling.

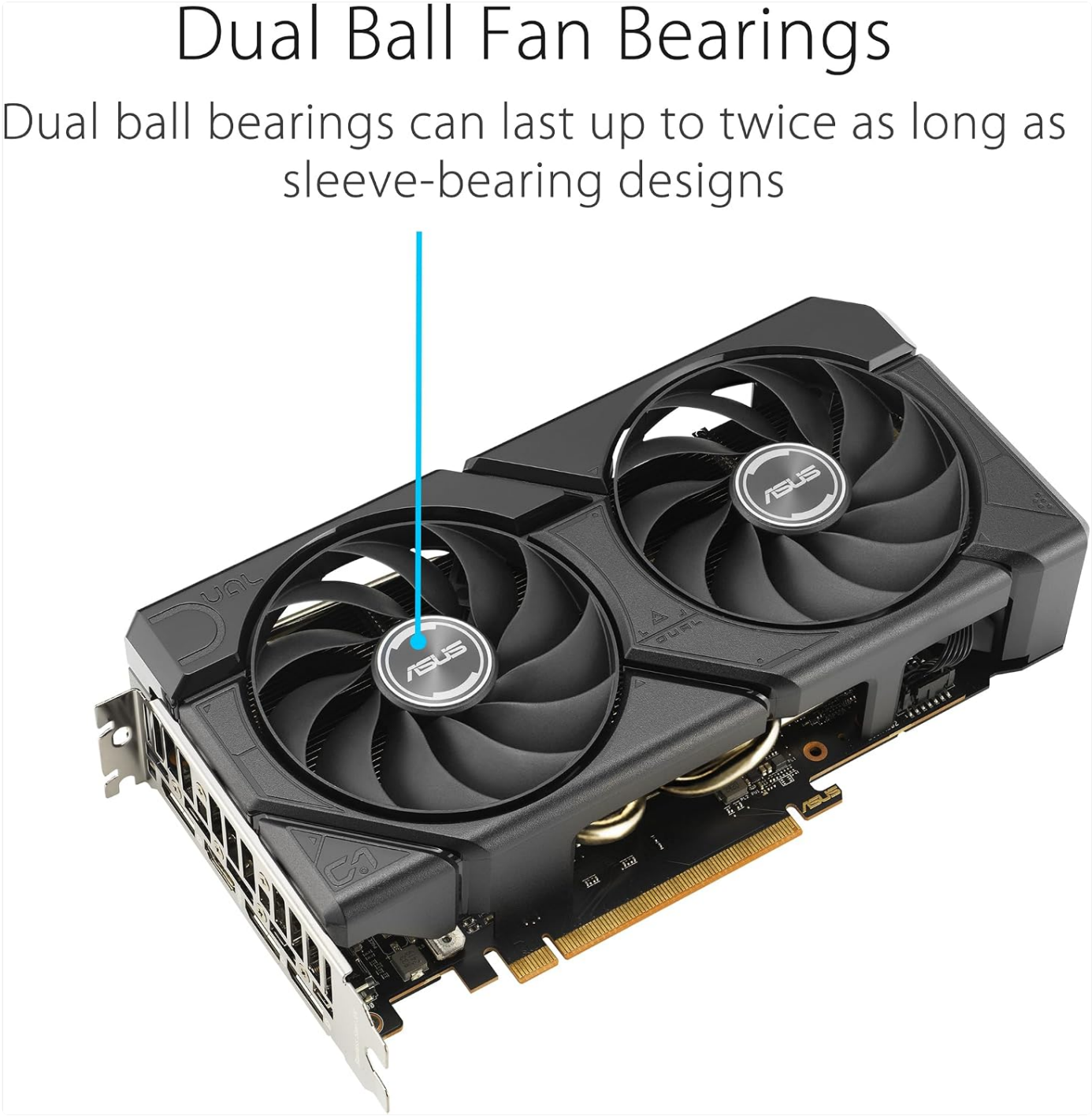


Image: A close-up illustrating the Dual Ball Fan Bearings. These bearings are designed to last significantly longer than traditional sleeve-bearing designs, enhancing fan durability.

5. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Solution
No display output	Ensure the display cable is securely connected to the graphics card and monitor. Verify the graphics card is fully seated in the PCIe slot. Check that all necessary power connectors are attached to the graphics card. Confirm your monitor is set to the correct input source.

Problem	Possible Solution
System fails to boot or crashes	Ensure your power supply unit (PSU) meets the minimum wattage requirements for the graphics card and your system. Check for proper driver installation. Try reinstalling the latest drivers. Verify the graphics card is not overheating.
Poor performance in games/applications	Update to the latest graphics drivers from the ASUS or AMD website. Ensure your system meets the recommended specifications for the application. Check GPU Tweak III settings to ensure the card is operating in an appropriate performance mode.
Fans are noisy or not spinning	Check GPU Tweak III settings for fan control. 0dB technology may cause fans to stop at low temperatures. Ensure no cables or obstructions are interfering with the fan blades. Clean dust from the fan blades and heatsink.

6. Technical Specifications

Key specifications for the ASUS Dual Radeon RX 7600 EVO OC Edition Graphics Card:

Feature	Specification
Graphics Engine	AMD Radeon RX 7600
Video Memory	8GB GDDR6
Boost Clock	Up to 2715 MHz (OC Mode)
Game Clock	Up to 2300 MHz (OC Mode)
Memory Speed	18000 MHz
Memory Interface	128-bit
Max Digital Resolution	7680x4320
Interface	PCIe 4.0
Display Outputs	1x HDMI 2.1, 3x DisplayPort 1.4a
Dimensions (LxWxH)	9.02 x 4.84 x 0.1 inches (approx.)
Weight	1.55 pounds (approx.)
Slot	2.5 Slot Design

7. Warranty and Support

ASUS products are manufactured to the highest quality standards. For warranty information, please refer to the warranty card included with your product or visit the official ASUS support website. For technical assistance, driver downloads, or further inquiries, please visit www.asus.com/support/.

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