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PowerColor AXRX 5700XT 8GBD6-3DH

PowerColor Radeon RX 5700 XT Graphics Card User Manual

Model: AXRX 5700XT 8GBD6-3DH

INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your PowerColor Radeon RX 5700 XT Graphics Card. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

The PowerColor Radeon RX 5700 XT is a high-performance graphics card designed for demanding gaming and professional applications, featuring 8GB GDDR6 memory and PCIe 4.0 support for high-bandwidth data transfer.

PACKAGE CONTENTS

Verify that all items are present in the package:

- PowerColor Radeon RX 5700 XT Graphics Card
- Quick Install Guide
- Installation CD (contains drivers and utilities)



Image: The PowerColor Radeon RX 5700 XT graphics card displayed alongside its retail packaging, illustrating the product as it appears when unboxed.

SYSTEM REQUIREMENTS

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 600W power supply with two 8-pin PCIe power connectors.
- Minimum 8GB system memory (16GB recommended).
- Operating System: Windows 10 64-bit or Linux 64-bit.
- Internet connection for driver installation.

SETUP AND INSTALLATION

1. Preparation

1. Turn off your computer and disconnect the power cable.
2. Open your computer case.
3. Ground yourself to prevent electrostatic discharge (ESD) damage.

2. Graphics Card Installation

1. Locate an available PCI Express x16 slot on your motherboard.
2. Remove any expansion slot covers that obstruct the installation.
3. Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated.
4. Secure the graphics card to the case with the retaining screw or clip.
5. Connect the two 8-pin PCIe power connectors from your power supply to the corresponding ports on the graphics card.



Image: A side view of the PowerColor Radeon RX 5700 XT graphics card, highlighting its dual-fan cooling system and copper heat pipes.



Image: The PowerColor Radeon RX 5700 XT graphics card, viewed from an angle that emphasizes its display output ports (HDMI and DisplayPort) and the PCIe bracket.

3. Driver Installation

1. Close your computer case and reconnect the power cable and display cables.
2. Power on your computer.
3. Insert the provided Installation CD into your optical drive, or download the latest drivers from the official PowerColor website (www.powercolor.com) or AMD's website (www.amd.com/en/support).
4. Follow the on-screen instructions to complete the driver installation.
5. Restart your computer after the installation is complete.

OPERATING THE GRAPHICS CARD

Once installed and drivers are updated, your PowerColor Radeon RX 5700 XT is ready for use. The card automatically adjusts its performance based on the workload.

Display Connections

The graphics card supports multiple display outputs:

- **HDMI:** Connect to HDMI-compatible displays.
- **DisplayPort (x3):** Connect to DisplayPort-compatible displays for high refresh rates and resolutions.

Ensure your display cables are securely connected to the graphics card and your monitor.

Software and Utilities

Utilize AMD Radeon Software for optimal control over your graphics card settings, including:

- Game performance optimization
- Fan curve adjustments

- Overclocking (advanced users)
- Display settings and FreeSync configuration

MAINTENANCE

Proper maintenance ensures the longevity and stable operation of your graphics card.

- **Dust Removal:** 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 for and install the latest graphics drivers from PowerColor or AMD's official websites to ensure optimal performance and compatibility.
- **Temperature Monitoring:** Use monitoring software (e.g., AMD Radeon Software) to keep an eye on the GPU temperature, especially during heavy loads. Maintain good airflow within your PC case.



Image: A top-down view of the PowerColor Radeon RX 5700 XT graphics card, showcasing its dual cooling fans and the sleek black shroud design.

TROUBLESHOOTING

Problem	Possible Cause / Solution
No display output	<ul style="list-style-type: none"> Ensure display cables are securely connected. Verify the graphics card is fully seated in the PCIe slot. Check PCIe power connectors are properly attached. Test with a different display cable or monitor.
System crashes or freezes during use	<ul style="list-style-type: none"> Update graphics drivers to the latest version. Monitor GPU temperatures; ensure adequate cooling. Verify power supply meets minimum wattage requirements. Check for system memory issues.
Poor game performance	<ul style="list-style-type: none"> Ensure drivers are up to date. Adjust in-game graphics settings. Check for background applications consuming resources. Verify CPU and RAM are not bottlenecking the GPU.
Fan noise is excessive	<ul style="list-style-type: none"> Clean dust from fans and heatsink. Adjust fan curve settings in AMD Radeon Software. Ensure good case airflow to reduce overall temperatures.

SPECIFICATIONS

Feature	Detail
Graphics Engine	AMD Radeon RX 5700 XT
Video Memory	8GB GDDR6
Memory Speed	1605 MHz
Game Clock	1755 MHz
Bus Standard	PCIe 4.0
Max Resolution	3840x2160 (4K)
Output Ports	1x HDMI, 3x DisplayPort
Dimensions (LxWxH)	11.54 x 7.52 x 2.72 inches
Weight	2.16 pounds

WARRANTY AND SUPPORT

PowerColor products are covered by a limited warranty. Please refer to the warranty information included with your product or visit the official PowerColor website for detailed terms and conditions.

For technical support, driver downloads, and frequently asked questions, please visit the PowerColor support page: www.powercolor.com/support

When contacting support, please have your product model number (AXRX 5700XT 8GBD6-3DH) and serial number ready.

