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XFX RX-57XT8MFD6

XFX Radeon RX 5700 XT 8GB GDDR6 Graphics Card Instruction Manual (RX-57XT8MFD6)

Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your XFX Radeon RX 5700 XT 8GB GDDR6 Graphics Card (RX-57XT8MFD6). Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

The XFX Radeon RX 5700 XT is designed for exceptional performance and high-fidelity gaming, featuring the RDNA architecture. It offers powerful, accelerated gaming experiences tailored for demanding applications.

Product Overview



Image: The XFX Radeon RX 5700 XT Graphics Card alongside its retail packaging, showcasing its design and key features.

The XFX Radeon RX 5700 XT is equipped with 8GB of advanced GDDR6 memory, providing high bandwidth for demanding games at 1440P resolution. It supports PCI Express 4.0, offering double the bandwidth compared to PCI Express 3.0 for next-generation PC gaming.

Key Features:

- **RDNA Architecture:** Features new compute units and instructions for enhanced visual effects and a multi-level cache hierarchy for reduced latency.
- **Game Fidelity Accelerated:** Enhances features like Radeon Image Sharpening, FidelityFX, and VR technologies.
- **Immersive Gaming Dynamics:** Includes Radeon Anti-Lag for reduced input lag and AMD Radeon FreeSync technology for stutter-free, tear-free gaming.
- **GDDR6 Memory:** 8GB of GDDR6 memory with up to 448 GB/s bandwidth for 1440P performance.
- **PCI Express 4.0 Support:** Offers 16 GT/s throughput, doubling the bandwidth of PCI Express 3.0.

Setup

1. Safety Precautions

- Always power off your computer and unplug it from the wall outlet before installing or removing any components.
- Discharge any static electricity from your body by touching a grounded metal object (e.g., your computer case) before handling the graphics card.
- Handle the graphics card by its edges to avoid touching sensitive components.

2. Physical Installation

1. Open your computer case.
2. Locate an available PCI Express 4.0 x16 slot on your motherboard.
3. Remove any expansion slot covers from the rear of the case that correspond to the chosen slot.
4. Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. The retention clip should click into place.
5. Secure the graphics card to the computer case with the appropriate screws.
6. Connect the required power cables from your power supply unit (PSU) to the graphics card. The RX 5700 XT typically requires one 8-pin and one 6-pin PCIe power connector. Ensure all connections are firm.
7. Close your computer case.

3. Driver Installation

1. Connect your display to one of the graphics card's output ports (DisplayPort or HDMI).
2. Power on your computer.
3. Insert the provided driver CD into your optical drive, or download the latest drivers directly from the official AMD website (www.amd.com/en/support).
4. Follow the on-screen instructions to complete the driver installation. A system restart may be required.

4. Display Connections

The XFX Radeon RX 5700 XT features multiple display outputs:

- 3 x DisplayPort
- 1 x HDMI

Connect your monitor(s) using the appropriate cables. For optimal performance, especially with high refresh rate monitors, DisplayPort is recommended.

Setup Videos

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Video: A detailed look at the RX 5700 XT Graphics Card, showcasing its physical design and ports.

Your browser does not support the video tag.

Video: A product overview highlighting various aspects and features of the graphics card.

Operating

Once installed and drivers are updated, your XFX Radeon RX 5700 XT is ready for use. The card is optimized for gaming and demanding graphical tasks.

Gaming Performance

- **1440P Gaming:** The 8GB GDDR6 memory is designed to deliver excellent performance for modern games at 1440P resolution.
- **Radeon Software:** Utilize the latest Radeon software for fine-tuning performance, managing game profiles, and accessing features like Radeon Image Sharpening and Radeon Anti-Lag.

Advanced Features

- **Radeon Image Sharpening:** Enhances visual clarity in games with minimal performance impact.
- **FidelityFX:** A collection of open-source visual enhancement technologies for improved image quality.
- **AMD Radeon FreeSync:** Synchronizes the refresh rate of your FreeSync-compatible monitor with the graphics card's frame rate to eliminate screen tearing and stuttering.
- **Radeon Anti-Lag:** Reduces input lag, providing a more responsive gaming experience.
- **VR Technologies:** Optimized for virtual reality applications, offering a smooth and immersive VR experience.

Maintenance

Proper maintenance ensures the longevity and consistent performance of your graphics card.

1. Cleaning

- Regularly clean dust from the graphics card's fans and heatsink using compressed air. Ensure the computer is powered off and unplugged.
- Hold the fan blades gently to prevent them from spinning rapidly during cleaning, which can damage the bearings.

2. Driver Updates

- Periodically check the official AMD website for the latest graphics drivers. Keeping your drivers updated can improve performance, stability, and compatibility with new games and applications.

3. System Monitoring

- Use monitoring software (e.g., AMD Radeon Software) to keep an eye on the graphics card's temperature and fan

speeds, especially during heavy loads. Ensure temperatures remain within safe operating limits.

Troubleshooting

If you encounter issues with your graphics card, consider the following troubleshooting steps:

Common Issues and Solutions:

- **Display Artifacts, Black Screens, or Crashes:**
  - **Driver Reinstallation:** Perform a clean reinstallation of your graphics drivers. Use a driver uninstaller utility (like DDU) in safe mode to completely remove old drivers before installing the latest version from AMD's website.
  - **Enhanced Sync:** If enabled in Radeon Software, try disabling 'Enhanced Sync' as it can sometimes cause instability with certain game titles or system configurations.
  - **PCIe Slot Setting:** If your motherboard supports PCIe 4.0 and you are experiencing instability, try setting the PCIe slot mode to 3.0 in your motherboard's BIOS/UEFI settings.
  - **BIOS Update:** Ensure your motherboard's BIOS is updated to the latest version, as this can improve compatibility and stability with new hardware.
  - **RAM Overclock:** If you have an XMP profile or manual RAM overclock enabled, try disabling it in the BIOS to rule out memory instability.
- **High Temperatures:**
  - **Airflow:** Ensure adequate airflow within your computer case. Check that case fans are properly installed and functioning.
  - **Dust Buildup:** Clean any dust from the graphics card's heatsink and fans.
  - **Fan Curve Adjustment:** In Radeon Software, you can customize the fan curve to increase fan speeds at higher temperatures, improving cooling performance.
- **No Display Output:**
  - **Cable Connection:** Verify that the display cable is securely connected to both the graphics card and the monitor.
  - **Power Connections:** Ensure all PCIe power connectors are firmly seated in the graphics card.
  - **Monitor Input:** Check that your monitor is set to the correct input source (e.g., DisplayPort 1, HDMI 2).

If these steps do not resolve your issue, please refer to the Warranty and Support section for further assistance.

Specifications

Feature	Detail
Brand	XFX
Series	RX-57XT8MFD6
Graphics Coprocessor	AMD Radeon RX 5700 XT
Graphics Card RAM Size	8 GB GDDR6
Memory Speed	14 GHz

Feature	Detail
GPU Clock Speed	1705 MHz (Base), up to 2 GHz (Boost)
Max Screen Resolution	3840x2160
Video Output Interface	DisplayPort, HDMI
Item Dimensions (LxWxH)	10.5 x 4.4 x 1.6 inches
Item Weight	2.2 pounds

What's in the Box

- XFX Radeon RX 5700 XT Video Card
- Driver CD

Warranty and Support

For detailed warranty information and technical support, please visit the official XFX website or contact their customer service. Keep your proof of purchase for warranty claims.

Official XFX Support: www.xfxforce.com/support

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