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XFX RX-57XT83LD8

XFX RX 5700 XT Triple Dissipation Graphics Card User Manual

Model: RX-57XT83LD8

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your XFX RX 5700 XT Triple Dissipation Graphics Card. Designed for high-performance and high-resolution gameplay, this graphics card features dynamic cooling power to maintain optimal temperatures and heightened performance.

Key features include:

- Triple Dissipation cooling design for lower temperatures and enhanced performance.
- Equipped with dual BIOS, allowing selection between high-performance mode or lower fan noise.
- Optimized for smooth gameplay at 1440p and 4K resolutions.
- Supports 8K resolution for next-generation displays.
- Boost Clock: Up to 1905MHz.

2. PACKAGE CONTENTS

Please verify that all items are present in your product packaging:

- XFX RX 5700 XT Triple Dissipation Graphics Card
- Quick Install Guide
- Power Adapters (if applicable, for specific PSU configurations)



Image: The XFX RX 5700 XT Triple Dissipation Graphics Card alongside its retail packaging, illustrating the product and its box contents.

3. SETUP AND INSTALLATION

3.1. System Requirements

- PCI Express compliant motherboard with one x16 PCIe slot.
- Minimum 650W or greater system power supply (PSU recommended).
- Minimum 8GB of system memory (16GB recommended).
- 64-bit operating system required (Windows 7, Windows 10, Linux).
- Display with DisplayPort or HDMI input.

3.2. Physical Installation

1. **Power Off and Unplug:** Before beginning, ensure your computer is completely powered off and unplugged from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. This card occupies two expansion slots.
4. **Remove Slot Covers:** Remove the two corresponding metal slot covers from the back of your computer case.
5. **Insert Graphics 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 motherboard clicks into place.
6. **Secure Card:** Secure the graphics card to the case using the screws from the removed slot covers.
7. **Connect Power:** Connect the necessary PCIe power cables from your power supply to the graphics card. This model typically requires one 8-pin and one 6-pin PCIe power connector. Ensure all connections are firm.



Image: A side view of the XFX RX 5700 XT graphics card, illustrating the multiple DisplayPort and HDMI outputs, along with the required power input connectors.

3.3. Driver Installation

1. **Power On:** Close your computer case, plug it back in, and power it on.
2. **Initial Display:** Your computer may boot with a basic display driver.
3. **Download Drivers:** Navigate to the official AMD website (www.amd.com/en/support) and download the latest Radeon Software drivers for the RX 5700 XT.
4. **Install Drivers:** Run the downloaded installer and follow the on-screen prompts. It is recommended to perform a clean installation to avoid conflicts with previous drivers.
5. **Restart:** Restart your computer after the installation is complete.

4. OPERATING YOUR GRAPHICS CARD

4.1. Connecting to Displays

The XFX RX 5700 XT features multiple display outputs. Connect your monitor(s) using DisplayPort or HDMI cables. This card supports up to 7680 x 4320 pixels resolution.

- **DisplayPort (DP):** For high-resolution and high-refresh-rate monitors.
- **HDMI:** Compatible with most modern TVs and monitors.

4.2. AMD Radeon Software

The AMD Radeon Software provides a comprehensive suite of tools to optimize your gaming experience and manage your

graphics card settings. After driver installation, you can access it via your desktop shortcut or system tray.

- **Gaming Tab:** Optimize game settings, monitor performance, and enable features like Radeon Anti-Lag and Radeon Image Sharpening.
- **Performance Tab:** Monitor GPU temperature, clock speeds, and fan speeds. You can also adjust fan curves and overclock settings (advanced users).
- **Dual BIOS:** Utilize the physical switch on the card (if present) or software settings to switch between the 'Performance' BIOS (higher clock speeds, potentially higher noise) and 'Silent' BIOS (lower noise, slightly reduced performance).



Image: An angled view of the XFX RX 5700 XT graphics card, showcasing its triple fan cooling system designed for efficient heat dissipation.

5. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning. Hold the fan blades gently to prevent over-spinning.
- **Driver Updates:** Regularly check the AMD website for the latest driver updates. Keeping your drivers up-to-date can improve performance, stability, and add new features.
- **System Airflow:** Ensure your PC case has adequate airflow to prevent heat buildup, which can negatively impact GPU performance and lifespan.



Image: A top-down perspective of the XFX RX 5700 XT graphics card, emphasizing the three large cooling fans that are central to its Triple Dissipation design.

6. TROUBLESHOOTING

If you encounter issues with your graphics card, refer to the following common troubleshooting steps:

- **No Display Output:**
 - Ensure the monitor cable is securely connected to both the graphics card and the monitor.
 - Verify that the graphics card is fully seated in the PCIe slot and secured.
 - Check that all necessary PCIe power connectors are firmly attached to the graphics card.
 - Confirm your monitor is set to the correct input source.
 - Try a different display cable or monitor if possible.
- **Performance Issues / Low FPS:**
 - Ensure you have the latest AMD Radeon Software drivers installed. Consider a clean driver installation using DDU (Display Driver Uninstaller) if issues persist.
 - Check GPU temperatures using monitoring software. High temperatures can lead to thermal throttling. Ensure proper case airflow and clean the card if dusty.
 - Verify your power supply meets the minimum wattage requirement for the card.
 - Adjust in-game graphics settings to a lower preset if necessary.
- **System Crashes / Blue Screens (BSOD):**

- This can often be driver-related. Perform a clean driver installation.
- Ensure your operating system is up-to-date.
- Check for any overclocking settings (GPU or CPU) and revert to default if applied.
- Monitor system temperatures (CPU, GPU, Motherboard) to rule out overheating.

- **Fan Noise:**

- The card features dual BIOS. If fan noise is a concern, switch to the 'Silent' BIOS mode via the physical switch or AMD Radeon Software.
- Adjust fan curves in AMD Radeon Software to find a balance between cooling and noise that suits your preference.
- Ensure fans are free of obstructions and dust.

7. SPECIFICATIONS

Feature	Detail
Brand	XFX
Model Number	RX-57XT83LD8
Graphics Coprocessor	AMD Radeon RX 5700 XT
Graphics Card Ram Size	8 GB GDDR6
Memory Speed	14 GHz
Boost Clock	Up to 1905MHz
Max Screen Resolution	7680 x 4320 pixels
Video Output Interface	DisplayPort, HDMI
Item Weight	0.704 ounces
Product Dimensions (LxWxH)	12.83 x 5.83 x 0.04 inches
Manufacturer	XFX

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official XFX website or contact their customer service directly.

Keep your purchase receipt as proof of purchase for warranty claims.

Official XFX Website: www.xfxforce.com