XFX RX-57XT8TBD8

XFX RX 5700 XT Thicc III Ultra Graphics Card User Manual

Model: RX-57XT8TBD8 | Brand: XFX

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your XFX RX 5700 XT Thicc III Ultra Graphics Card. Designed for high-performance and high-resolution gameplay, this card features dynamic cooling and advanced technologies to enhance your computing experience.

Figure 1: Front angled view of the XFX RX 5700 XT Thicc III Ultra Graphics Card.

Product Overview Video

Your browser does not support the video tag.

Video 1: An official overview of the XFX RX 5700 XT Thicc III Ultra Graphics Card, highlighting its key features and design.
(Source: XFX Vendor)

WHAT'S IN THE BOX

Upon opening your product packaging, please verify that all the following items are included:

- XFX RX 5700 XT Thicc III Ultra Graphics Card
- Driver CD
- Quick Install Guide

Figure 2: The graphics card alongside its retail packaging.

SETUP AND INSTALLATION

Before beginning installation, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to wear an anti-static wrist strap to prevent damage from static discharge.

1. Physical Installation

1. Open your computer case and locate an available PCIe 4.0 x16 slot on your motherboard.
2. Remove any expansion slot covers that correspond to the graphics card's size (this card typically requires two or three slots).
3. 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.
4. Secure the graphics card to the computer case using the appropriate screws.

Figure 3: Proper alignment and seating of the graphics card in a PCIe slot is crucial.

2. Power Connection

The XFX RX 5700 XT Thicc III Ultra requires dual 8-pin PCIe power connectors. Ensure your power supply unit (PSU) has at least a 600W capacity and provides these connectors.

- Connect both 8-pin PCIe power cables from your PSU to the corresponding ports on the graphics card. Ensure they are fully seated.
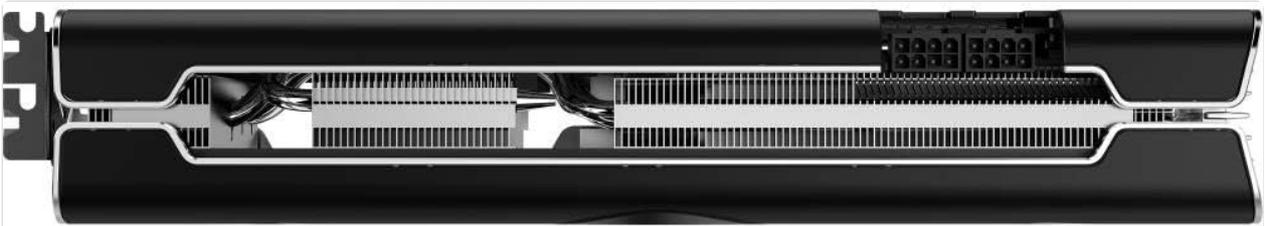

Figure 4: Location of the dual 8-pin power connectors.

Refer to Video 1 (0:01:07 - 0:01:21) for a visual guide on connecting power cables.

3. Driver Installation

1. Once the hardware installation is complete, close your computer case and reconnect all peripherals and power.
2. Power on your computer.
3. Insert the provided Driver CD into your optical drive, or download the latest drivers directly from the official XFX website (www.xfxforce.com) or AMD's official website (www.amd.com/en/support).
4. Follow the on-screen instructions to complete the driver installation. A system restart may be required.

OPERATING FEATURES

1. Advanced Cooling System

The Thicc III Ultra features a robust cooling solution designed for optimal thermal performance. This includes three high-performance fans (2x 90mm, 1x 100mm), a copper GPU base, and four heat pipes to efficiently dissipate heat.

- **Zero DB Fan Technology:** For quiet operation during light loads, the fans will stop spinning entirely. They will automatically activate when the GPU temperature reaches a certain threshold, ensuring efficient cooling only when needed.

Figure 5: The triple fan cooling system ensures efficient heat dissipation.

Refer to Video 1 (0:00:21 - 0:00:39) for more details on Zero DB Fan Technology and (0:01:21 - 0:01:37) for insights into the internal cooling components.

2. Dual BIOS Switch (Performance/Silent Mode)

Your graphics card is equipped with a dual BIOS switch, allowing you to select between two operational modes:

- **Performance Mode:** Provides higher boost clock speeds (up to 2025MHz) for maximum gaming performance.
- **Silent Mode:** Optimizes for quieter operation by adjusting fan curves and clock speeds, ideal for less demanding tasks or noise-sensitive environments.

The switch is located near the power connectors on the card's backplate. To change modes, ensure your system is powered off, then toggle the switch to your desired setting.

Figure 6: Location of the Dual BIOS switch on the backplate.

Refer to Video 1 (0:00:56 - 0:01:06) for a visual demonstration of the Dual BIOS switch.

SPECIFICATIONS

Feature	Specification
Brand	XFX
Model Number	RX-57XT8TBD8
Graphics Coprocessor	AMD Radeon RX 5700 XT
Chipset Brand	AMD
Graphics Card RAM Size	8 GB GDDR6
Memory Speed	14 GHz
Boost Clock	Up to 2025 MHz
Video Output Interface	3x DisplayPort, 1x HDMI
Item Weight	4.41 pounds
Product Dimensions (LxWxH)	12.4 x 5.16 x 2.24 inches
Recommended PSU	600W or higher

MAINTENANCE

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

- **Dust Removal:** Periodically clean the fans and heatsink fins using compressed air. Ensure the system is powered off and unplugged before cleaning. Hold the fan blades gently to prevent them from spinning rapidly during cleaning, which can damage the bearings.
- **Driver Updates:** Regularly check the XFX or AMD website for the latest driver updates. Keeping your drivers current can improve performance, stability, and compatibility with new games and applications.
- **System Airflow:** Ensure your computer case has adequate airflow to prevent heat buildup. Proper ventilation is crucial for maintaining low operating temperatures for your graphics card and other components.

TROUBLESHOOTING

This section addresses common issues you might encounter with your graphics card.

No Display / Black Screen

- **Check Connections:** Ensure the graphics card is fully seated in the PCIe slot and both 8-pin power connectors are securely plugged in.
- **Monitor Cable:** Verify that your display cable (DisplayPort or HDMI) is correctly connected to both the graphics card and your monitor.
- **Power Supply:** Confirm your PSU meets the minimum 600W requirement and is functioning correctly. Insufficient power can lead to display issues.
- **BIOS/UEFI Settings:** Check your motherboard's BIOS/UEFI settings to ensure the correct primary display adapter is selected (usually PCIe/PEG).

Driver Issues / Crashes

- **Clean Driver Installation:** If experiencing instability or crashes, perform a clean installation of your graphics drivers. Uninstall existing drivers using a utility like Display Driver Uninstaller (DDU) in Safe Mode, then install the latest drivers from AMD's official website.
- **Operating System Compatibility:** Ensure your operating system is up-to-date and compatible with the latest AMD drivers. Some users have reported issues with older Windows versions (e.g., Windows 8.1) requiring an upgrade to Windows 10 for full driver support.

Overheating / High Temperatures

- **Case Airflow:** Improve airflow within your PC case by ensuring proper fan placement and cable management.
- **Dust Buildup:** Clean the graphics card's heatsink and fans as described in the Maintenance section.
- **Fan Curves:** Consider adjusting fan curves in AMD Radeon Software to be more aggressive if temperatures remain high under load.
- **Thermal Paste:** In rare cases, if the card is significantly older or consistently running hot despite other measures, reapplying thermal paste to the GPU die might be necessary (advanced users only, may void warranty).

Warranty and Support

The XFX RX 5700 XT Thicc III Ultra Graphics Card comes with a **3-Year Limited Warranty** from XFX. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or further assistance, please visit the official XFX support website or contact their customer service:

- **XFX Official Website:** www.xfxforce.com
- **Support Page:** Look for a "Support" or "Contact Us" section on the website for specific contact methods (e.g., email, phone, live chat).

Refer to Video 1 (0:01:55 - 0:02:04) for information regarding the 3-year limited warranty.