XFX R9-280X-TDFD

XFX Radeon Double D R9 280X Graphics Card User Manual

Model: R9-280X-TDFD

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your XFX Radeon Double D R9 280X Graphics Card (Model R9-280X-TDFD). Please read this guide thoroughly before proceeding with installation to ensure proper setup and optimal performance.

An angled view of the XFX Radeon Double D R9 280X graphics card, showcasing its black shroud, dual cooling fans with red accents, and various output ports including DVI and mini DisplayPort.

Setup and Installation

Proper installation is crucial for the functionality and longevity of your graphics card. Please review the following instructions carefully. It is also recommended to check the official XFX website for any instructional videos that may assist with the installation process.

System Requirements

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 750W power supply unit (PSU) with two 6-pin or one 6-pin and one 8-pin PCI Express power connectors.
- At least 4GB of system memory (RAM) recommended.
- Compatible operating system (e.g., Windows 7 64-bit or newer).

Physical Installation

1. **Prepare Your System:** Power off your computer and disconnect all cables. Open the computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
3. **Install the Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Secure the card with the case's retention mechanism or screw.
4. **Connect Power:** Connect the required 6-pin and 8-pin (or two 6-pin) PCI Express power connectors from your power supply to the corresponding ports on the graphics card.
5. **Consider Physical Dimensions:** The card measures approximately 11.61 x 5.63 x 1.65 inches. Ensure adequate space within your case, especially if you have drive cages that might obstruct the card's length.
6. **Airflow:** The XFX Double Dissipation cooling system is designed to exhaust hot air into the computer case. Ensure your case has sufficient airflow and exhaust fans to manage internal temperatures.
7. **Close Case:** Once installed, close your computer case and reconnect all cables.

Driver Installation

After physical installation, you must install the latest graphics drivers for optimal performance and stability.

1. **Boot System:** Power on your computer. The operating system may install a generic driver.
2. **Download Drivers:** Visit the official AMD website (www.amd.com/en/support) to download the latest drivers for your Radeon R9 280X graphics card. Do not use drivers from an included CD, as they are often outdated.
3. **Install Drivers:** Follow the on-screen instructions to install the drivers. A system restart may be required.

Operating Your Graphics Card

Once installed and drivers are updated, your XFX Radeon R9 280X is ready for use.

Display Connectivity

The card features multiple display outputs:

- 2x Mini DisplayPort (mDP)
- 1x HDMI
- 2x DVI

It supports up to four monitors simultaneously when both mini DisplayPorts are utilized.

Performance Features

- **Core Clock:** 850MHz (Base), 1000MHz (Boost)

- **Memory:** 3GB GDDR5
- **Effective Memory Clock:** 6.0GHz
- **Memory Interface:** 384-bit
- **Cooling:** XFX Enhanced Double Dissipation Cooling
- **Technology:** AMD Boost Ready for dynamic performance optimization.

MAINTENANCE

To ensure the longevity and consistent performance of your graphics card, periodic maintenance is recommended.

- **Dust Removal:** Regularly clean dust from the graphics card fans and heatsink using compressed air. Ensure the system is powered off before cleaning.
- **Driver Updates:** Keep your graphics drivers updated by regularly checking the AMD website for new releases.
- **System Airflow:** Maintain good airflow within your computer case to prevent overheating. Ensure case fans are functioning correctly and vents are unobstructed.

TROUBLESHOOTING

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

- **No Display Output:**

  - Ensure the graphics card is fully seated in the PCIe slot.
  - Verify that all power connectors (6-pin, 8-pin) are securely attached to the card and the power supply.
  - Check that your monitor cable is correctly connected to the graphics card and the monitor.
  - Test with a different display cable or monitor if possible.

- **Driver Issues:**

  - Perform a clean installation of the latest drivers from the AMD website. Uninstall previous drivers before installing new ones.

- **System Instability/Crashes:**

  - Ensure your power supply meets the minimum wattage requirement (750W).
  - Monitor GPU temperatures using third-party software to check for overheating.
  - Verify that your system memory (RAM) is stable.

- **CrossFire Configuration (if applicable):**

  - When setting up multiple cards in CrossFire, a 10cm CrossFire bridge may be required due to the card's design. The standard bridge included with motherboards might not be long enough.
  - Ensure adequate spacing and airflow between cards, as the top card in a multi-GPU setup may run hotter.

SPECIFICATIONS

Feature	Detail
Model Number	R9-280X-TDFD
Graphics Processor	AMD Radeon (ATI Chipset)
Core Clock	850MHz (Base), 1000MHz (Boost)

Feature	Detail
Memory Size	3GB GDDR5
Memory Clock	6000 MHz (Effective)
Memory Interface	384-bit
Max Resolution	4096x2160
Output Ports	2x Mini DisplayPort, 1x HDMI, 2x DVI
Dimensions (LxWxH)	11.61 x 5.63 x 1.65 inches
Item Weight	2.7 pounds
Manufacturer	XFX
First Available	October 11, 2013

WARRANTY AND SUPPORT

XFX offers a Lifetime Warranty for this product. Registration is required within 30 days of purchase to activate the warranty.

- **Warranty Registration:** Visit the official XFX website to register your product. The serial number is typically located on a sticker on the product itself and its packaging.
- **Technical Support:** For further assistance or technical inquiries, please refer to the support section of the official XFX website.