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XFX RX-580P8DBD6

XFX Radeon RX 580 GTS Black Edition Graphics Card User Manual

Model: RX-580P8DBD6

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your XFX Radeon RX 580 GTS Black Edition graphics card. Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

- Ensure your computer is powered off and unplugged from the wall outlet before installing or removing the graphics card.
- Always ground yourself to prevent electrostatic discharge (ESD) which can damage electronic components. Use an anti-static wrist strap or touch a grounded metal object.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Do not expose the card to moisture or extreme temperatures.
- Refer to your computer's motherboard manual for specific PCIe slot information.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- XFX Radeon RX 580 GTS Black Edition Graphics Card
- Driver CD
- Quick Install Guide

4. PHYSICAL OVERVIEW

The XFX Radeon RX 580 GTS Black Edition features a robust cooling solution and multiple display outputs.



Figure 4.1: Front view of the XFX Radeon RX 580 GTS Black Edition graphics card, showcasing its dual fan cooling system and black shroud.

Display Outputs:



Figure 4.2: Rear view of the graphics card showing the display output ports: three DisplayPort (DP), one HDMI, and one DVI port.

- 3 x DisplayPort (DP)

- 1 x HDMI
- 1 x DVI

Power Connector and Dual BIOS Switch:

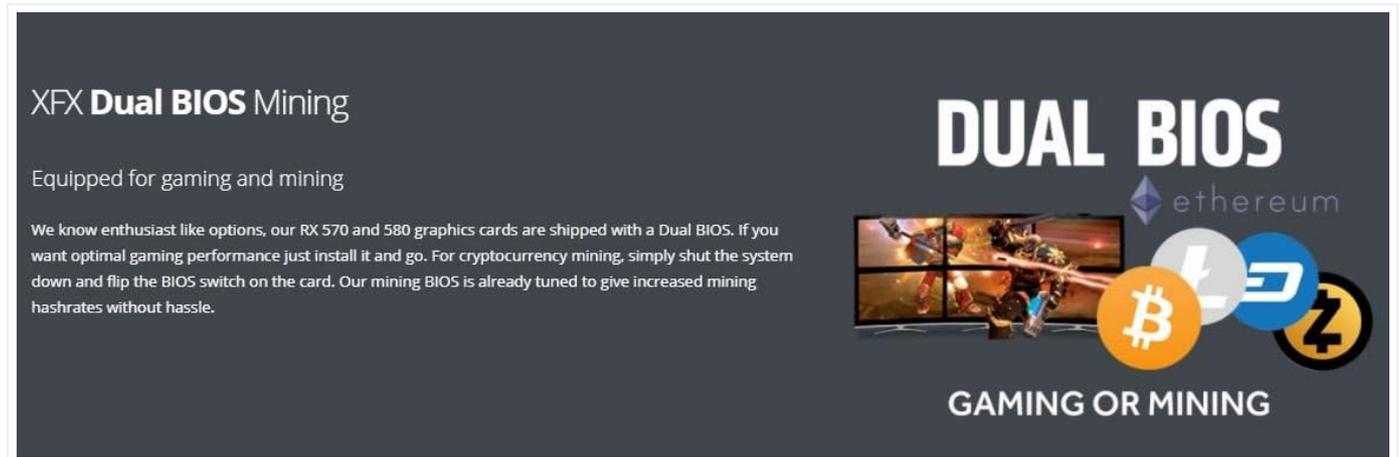


Figure 4.3: Close-up view of the graphics card showing the 8-pin power connector and a small blue LED indicator above it. The Dual BIOS switch is located near this area.

The card requires an 8-pin PCIe power connector. A small blue LED indicator is present above the 8-pin power connector, which is always on when the PC is powered. The Dual BIOS switch is located adjacent to the 8-pin power connector, allowing users to select between different BIOS profiles.

5. SETUP AND INSTALLATION

5.1 System Requirements

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 500W power supply with one 8-pin PCIe power connector.
- Operating System: Microsoft Windows 10 (64-bit recommended).
- 8GB system memory (RAM) or more.
- Internet connection for driver installation.

5.2 Hardware Installation

1. **Prepare Your System:** Power off your computer and unplug all cables. Open your computer case.
2. **Locate PCIe Slot:** Find an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that may be blocking the slot.
3. **Install Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. A click may be heard when it locks into place.
4. **Secure the Card:** Fasten the graphics card to the computer case using the screw or latch mechanism provided by your case.
5. **Connect Power:** Connect the 8-pin PCIe power cable from your power supply to the corresponding connector on the graphics card. Ensure a snug fit.
6. **Close Case:** Close your computer case and reconnect all cables.

5.3 Driver Installation

1. **Power On:** Turn on your computer. The system may boot into a low-resolution display.

2. Install Drivers:

- Insert the provided driver CD into your optical drive and follow the on-screen instructions.
- Alternatively, for the latest drivers, visit the official AMD website (www.amd.com/en/support) and download the Radeon Software for your RX 580 series card.

3. **Follow Prompts:** Follow the installation wizard prompts. A system restart may be required to complete the driver installation.

6. OPERATING THE GRAPHICS CARD

6.1 Connecting to a Display

Connect your monitor(s) to the appropriate display output ports on the graphics card (DisplayPort, HDMI, or DVI). The card supports multiple displays simultaneously.

6.2 AMD Radeon Software

After driver installation, the AMD Radeon Software will be available. This software allows you to:

- Adjust display settings and resolutions.
- Optimize game performance.
- Monitor GPU temperature and usage.
- Update drivers.

6.3 Dual BIOS Functionality



Figure 6.1: Illustration of the Dual BIOS feature, indicating different profiles for gaming and other applications.

The XFX Radeon RX 580 GTS Black Edition is equipped with a Dual BIOS feature. This allows you to switch between two different BIOS profiles. One profile is typically optimized for gaming performance, while the other may be tuned for different workloads. To switch BIOS profiles, ensure your system is powered off, then locate the small switch near the 8-pin power connector and toggle it to the desired position. Restart your system for the changes to take effect.

6.4 Product Overview Video

Your browser does not support the video tag.

Video 6.1: An overview of the HYPERRENDER RX 580 8GB Graphics Card, demonstrating its physical appearance and features.

7. MAINTENANCE

- **Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check for and install the latest graphics drivers from the AMD website to ensure optimal performance and stability.
- **Temperature Monitoring:** Use AMD Radeon Software or third-party tools to monitor GPU temperatures, especially during heavy workloads, to prevent overheating.

8. TROUBLESHOOTING

- **No Display Output:**
 - Ensure the graphics card is fully seated in the PCIe slot.
 - Verify the 8-pin PCIe power connector is securely attached.
 - 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 Installation Issues:**
 - Uninstall any previous graphics drivers using a display driver uninstaller (DDU) in safe mode.
 - Download the latest drivers directly from the AMD website.
- **Overheating/Performance Drops:**
 - Ensure adequate airflow within your computer case.
 - Clean dust from the graphics card fans and heatsink.
 - Verify that the fans are spinning correctly.
 - Check system power supply capacity.
- **Rattling or Grinding Noise:**
 - Inspect fans for any obstructions or loose components.
 - Ensure the card is securely mounted and not vibrating against other components.

9. SPECIFICATIONS

Feature	Specification
Model Number	RX-580P8DBD6
Graphics Coprocessor	AMD Radeon RX 580
Memory	8 GB GDDR5
Memory Speed	8000 MHz
Max Screen Resolution	3840 x 2160 pixels
Video Output Interface	3x DisplayPort, 1x HDMI, 1x DVI
Item Weight	2 pounds
Product Dimensions (LxWxH)	10.63 x 1.57 x 4.88 inches

Feature	Specification
Cooling	XFX Double Dissipation Cooling
Features	Dual BIOS, VR Ready, Microsoft DirectX 12 Support

10. WARRANTY AND SUPPORT

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

Official XFX Website: www.xfxforce.com

