

PowerColor AXRX 580 8GBD5-3DH/OC

PowerColor AMD Radeon RED DEVIL RX 580 8GB GDDR5 Graphics Card User Manual

Model: AXRX 580 8GBD5-3DH/OC | Brand: PowerColor

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your PowerColor AMD Radeon Red Devil RX 580 8GB GDDR5 Graphics Card (AXRX 580 8GBD5-3DH/OC). Please read these instructions carefully before proceeding to ensure proper functionality and longevity of your product.

WHAT'S IN THE BOX

Verify that all items are present in the package:

- PowerColor AMD Radeon RED DEVIL RX 580 8GB GDDR5 Graphics Card
- Instruction Manual (this document)
- CD Driver

SPECIFICATIONS

Feature	Detail
Graphics Processor	AMD Radeon RX 580
Stream Processors	2304 Units
Boost Clock	1380 MHz
Memory Size	8GB GDDR5
Memory Interface	256-bit
Memory Speed	2000 MHz
Max Screen Resolution	3840x2160

Video Output Interface	1 x DL DVI-D, 1 x HDMI, 3 x DisplayPort
Power Connectors	1 x 6-pin, 1 x 8-pin
Minimum System Power	550W
Form Factor	ATX
Item Weight	2.2 pounds
Product Dimensions	12 x 5 x 1.5 inches

SETUP AND INSTALLATION

Follow these steps to properly install your graphics card:

1. **Prepare Your System:** Power off your computer and unplug all cables. Open your PC case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
3. **Remove Old Graphics Card (if applicable):** If replacing an existing card, carefully unlatch its retention clip, unscrew any mounting screws, and gently pull it out of the slot.
4. **Insert New Graphics Card:** Align your PowerColor RX 580 graphics card with the PCIe x16 slot. Press down firmly and evenly until the card is fully seated and the retention clip locks into place.
5. **Secure the Card:** Use screws to fasten the graphics card's mounting bracket to your PC case.
6. **Connect Power Cables:** Connect the required 1x 6-pin and 1x 8-pin PCIe power connectors from your power supply to the corresponding ports on the graphics card. Ensure a minimum 550W power supply for stable operation.
7. **Close PC Case:** Once the card is securely installed and powered, close your PC case.
8. **Connect Display Cables:** Connect your monitor(s) to the graphics card using the available DL DVI-D, HDMI, or DisplayPort outputs.
9. **Power On:** Plug in all necessary cables and power on your computer.
10. **Install Drivers:** Once your operating system loads, install the latest AMD Radeon drivers from the included CD Driver or the official PowerColor website.



Figure 1: Front view of the PowerColor AMD Radeon RED DEVIL RX 580 Graphics Card, showcasing its dual-fan cooling solution.



Figure 2: Angled view of the graphics card, highlighting the power connectors (1x 6-pin and 1x 8-pin) on the side.



Figure 3: Rear I/O panel of the graphics card, showing the DL DVI-D, HDMI, and DisplayPort outputs for monitor connections.

Video 1: Official product video showcasing the SOYO RX580 Gaming GPU, providing a visual overview of the card's design and features.

Video 2: Official product video demonstrating the HYPERRENDER RX 580 8GB Graphics Card, offering a closer look at its physical attributes.

OPERATING INSTRUCTIONS

After successful installation, ensure optimal performance by following these guidelines:

- **Driver Installation:** Always install the latest graphics drivers for your AMD Radeon RX 580. These can be found on the PowerColor official website or AMD's support page. Updated drivers ensure compatibility, performance enhancements, and bug fixes.
- **Display Connection:** Utilize the appropriate display output (DL DVI-D, HDMI, or DisplayPort) for your monitor. For optimal resolution and refresh rates, use DisplayPort if available on your monitor.
- **Power Supply:** Ensure your system's power supply meets the minimum requirement of 550W to prevent instability or damage to components.
- **System Cooling:** Maintain good airflow within your PC case to prevent overheating. Ensure case fans are properly installed and functioning.

MAINTENANCE

Regular maintenance helps prolong the life and performance of your graphics card:

- **Dust Cleaning:** Periodically clean dust from the graphics card's fans and heatsink using compressed air. Ensure the PC is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check for and install the latest graphics drivers from the official PowerColor or AMD website.
- **Temperature Monitoring:** Use monitoring software to keep track of your GPU temperatures during operation. Excessive temperatures can indicate insufficient cooling or heavy workload.
- **Physical Inspection:** Occasionally inspect the card for any loose connections or visible damage.

TROUBLESHOOTING

Here are solutions to common issues you might encounter:

- **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 its power cables are connected.
 - Check if your monitor is set to the correct input source.
- **Driver Installation Issues:**
 - Uninstall any previous graphics drivers using a driver uninstaller utility before installing new ones.
 - Download drivers directly from the official PowerColor or AMD website.
- **Overheating/Performance Drops:**

- Ensure adequate airflow in your PC case. Clean any dust buildup on the graphics card's fans and heatsink.
- Verify that your power supply meets the minimum 550W requirement.
- Monitor GPU temperatures using software. If temperatures are consistently high, consider improving case ventilation.

- **System Instability/Crashes:**

- Ensure all drivers are up-to-date.
- Check for any conflicts with other hardware or software.
- Verify your power supply is sufficient and stable.

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official PowerColor website. For technical support, driver downloads, and FAQs, please visit the PowerColor support page or contact their customer service.

PowerColor Official Website: www.powercolor.com