

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [PowerColor](#) /

› [PowerColor R9 280X 3GB GDDR5 Graphics Card AXR9 280X 3GBD5-DHE User Manual](#)

PowerColor AXR9 280X 3GBD5-DHE

PowerColor R9 280X 3GB GDDR5 Graphics Card

MODEL: AXR9 280X 3GBD5-DHE USER MANUAL

[Contents](#) [Setup](#) [Operating](#) [Maintenance](#) [Introduction](#) [Package](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your PowerColor R9 280X 3GB GDDR5 Graphics Card (Model AXR9 280X 3GBD5-DHE). Please read this manual thoroughly before installation to ensure proper setup and optimal performance. This graphics card is designed to enhance your computing experience with advanced visual capabilities and efficient processing.

2. Package Contents

Upon opening the package, verify that all items are present. Contents may vary slightly depending on region or retailer.

- PowerColor R9 280X 3GB GDDR5 Graphics Card (AXR9 280X 3GBD5-DHE)
- Driver CD (or link to download drivers)
- Quick Installation Guide
- Power cables (if required for specific system configurations)

3. Setup and Installation

Follow these steps to properly install your graphics card into your computer system.

3.1. Preparation

1. **Power Off:** Shut down your computer completely and disconnect the power cord from the wall outlet.
2. **Open Case:** Open your computer case to access the motherboard.
3. **Static Discharge:** Touch a metal part of your computer chassis to discharge any static electricity from your body.

3.2. Physical Installation

4. **Locate PCIe Slot:** Identify an available PCI Express 3.0 x16 slot on your motherboard.
5. **Remove Slot Covers:** Remove the necessary expansion slot covers from the back of your computer case.
6. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press it firmly until it is securely seated. Ensure the retention clip on the slot locks into place.
7. **Secure Card:** Use screws to secure the graphics card to the computer case.



Figure 1: PowerColor R9 280X Graphics Card. This image shows the graphics card, highlighting its cooling solution and PCIe connector.

3.3. Power Connection

- Connect the appropriate PCIe power cables from your power supply unit (PSU) to the power connectors on the graphics card. The R9 280X typically requires two 6-pin or 8-pin PCIe power connectors. Refer to your PSU manual for cable identification.

3.4. Display Connection

- Connect your monitor(s) to the display output ports on the graphics card (DVI, DisplayPort, HDMI).

3.5. Close Case and Power On

- Close your computer case, reconnect the power cord, and power on your computer.

4. Operating the Graphics Card

4.1. Driver Installation

1. **Boot to OS:** Allow your computer to boot into your operating system. The system may initially use a generic display driver.
2. **Download Drivers:** Visit the official PowerColor or AMD website to download the latest drivers for the R9 280X graphics card. It is recommended to use the latest drivers for optimal performance and compatibility.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. You may need to restart your computer after installation.

4.2. AMD Radeon Software

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

- Adjust display settings and resolutions (up to 4096x2160).
- Configure gaming profiles and performance settings.
- Manage multi-display setups using AMD Eyefinity technology.
- Monitor GPU performance and temperatures.

5. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your graphics card.

- **Dust Removal:** Periodically clean dust from the heatsink and fans using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check the PowerColor or AMD website for updated drivers. Keeping drivers current can improve performance, stability, and add new features.
- **Temperature Monitoring:** Use the AMD Radeon Software or third-party tools to monitor GPU temperatures, especially during heavy loads, to prevent overheating.

6. Troubleshooting

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

6.1. No Display Output

- **Check Cables:** Ensure all display cables (HDMI, DisplayPort, DVI) are securely connected to both the graphics card and the monitor.
- **Power Connections:** Verify that all PCIe power connectors are firmly attached to the graphics card.
- **Reseat Card:** Power off the computer, unplug it, and reseat the graphics card in its PCIe slot.
- **Monitor Input:** Confirm your monitor is set to the correct input source.

6.2. Driver Issues or Instability

- **Clean Driver Installation:** Uninstall existing graphics drivers using a utility like Display Driver Uninstaller (DDU) in Safe Mode, then perform a fresh installation of the latest drivers from the official website.
- **Operating System Updates:** Ensure your operating system is fully updated.

6.3. Performance Problems or Crashes

- **Temperature:** Monitor GPU temperatures. Excessive heat can lead to throttling or crashes. Ensure proper case airflow.
- **Power Supply:** Verify your power supply unit (PSU) meets the recommended wattage for your system, including the graphics card.
- **Game/Application Settings:** Reduce in-game or application graphics settings if experiencing low frame rates or crashes.

7. Specifications

Key technical specifications for the PowerColor R9 280X 3GB GDDR5 Graphics Card (AXR9 280X 3GBD5-DHE).

Feature	Detail
Model Number	AXR9 280X 3GBD5-DHE
Graphics Processor	AMD Radeon R9 280X
Stream Processors	2048
Video Memory	3GB GDDR5
Memory Interface	384-bit
Memory Speed	1500 MHz (6000 MHz effective)
Bus Standard	PCI Express 3.0 x16
Max Resolution	4096x2160
Video Output Interface	DVI, DisplayPort, HDMI
Dimensions (LxWxH)	14 x 3 x 10 inches
Item Weight	3 pounds
Key Features	GCN Architecture, Mantle, AMD Eyefinity

8. Warranty and Support

For warranty information and technical support, please refer to the official PowerColor website or contact your retailer. Keep your proof of purchase for warranty claims.

- **PowerColor Official Website:** www.powercolor.com
- **AMD Support:** www.amd.com/support