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PowerColor RX9070XT 16G-A

PowerColor Reaper AMD Radeon RX 9070 XT 16GB GDDR6 Graphics Card User Manual

Model: RX9070XT 16G-A

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your PowerColor Reaper AMD Radeon RX 9070 XT 16GB GDDR6 graphics card. Please read this manual thoroughly before installation to ensure proper functionality and to maximize your product's lifespan.

The PowerColor Reaper AMD Radeon RX 9070 XT is a high-performance graphics card designed for demanding gaming and computing tasks, featuring 16GB of GDDR6 memory and advanced cooling solutions.



Image 1.1: Front view of the PowerColor Reaper AMD Radeon RX 9070 XT graphics card, showcasing its triple-fan design.

2. Package Contents

Verify that all items are present in your product packaging:

- PowerColor Reaper AMD Radeon RX 9070 XT 16GB GDDR6 Graphics Card
- Quick Installation Guide (if included)
- Driver CD/USB (if included, otherwise download latest drivers online)

3. Setup and Installation

Follow these steps to install your graphics card into your computer system:

1. **Prepare Your System:** Power off your computer and unplug it from the wall outlet. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI-Express x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.
3. **Install Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip locks into place.
4. **Secure the Card:** Fasten the graphics card to the computer case using the screws from the removed expansion slot covers.

5. **Connect Power:** Connect two 8-pin PCI Express power connectors from your power supply to the corresponding ports on the graphics card. Ensure a minimum system power supply of 750W.
6. **Close Case and Connect Display:** Close your computer case. Connect your display monitor to one of the graphics card's video output interfaces (1 x HDMI 2.1, 3 x DisplayPort 2.1).
7. **Power On and Install Drivers:** Plug in and power on your computer. Install the latest AMD Radeon drivers from the official AMD website or the provided media. It is recommended to perform a clean driver installation, especially if switching from a different GPU brand.



Image 3.1: Side view of the graphics card, showing the power connectors and heatsink fins.



Image 3.2: Back view of the graphics card, highlighting the display output ports.

4. Operating Instructions

Once installed and drivers are updated, your PowerColor Reaper RX 9070 XT is ready for use. The card is designed for optimal performance in gaming and demanding applications.

4.1 Display Connectivity

The graphics card supports multiple display configurations with its 1 x HDMI 2.1 and 3 x DisplayPort 2.1 outputs. It can achieve a maximum display resolution of 7680x4320.

4.2 Fan Operation

The card features an Intelligent Fan Controller and High-Efficiency Ring Blade Fans with Japanese Dual Ball Bearings. For quiet operation, the fans are designed to stop spinning when the GPU temperature is below 60°C (Zero Fan RPM feature). They will activate automatically when the temperature exceeds 50°C to maintain optimal cooling.

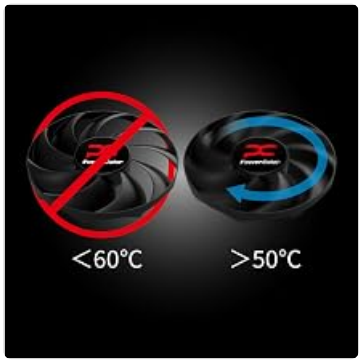


Image 4.1: Diagram illustrating the intelligent fan controller functionality.



Image 4.2: Close-up of the high-efficiency ring blade fans.

4.3 Software Control

Utilize the AMD Adrenaline software for fine-tuning performance, monitoring temperatures, and customizing fan curves. This software allows for advanced control over your graphics card settings.

5. Maintenance

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

- **Dust Removal:** Periodically clean dust from the heatsink fins and fan blades using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your graphics drivers updated to the latest version available from the official AMD website. This ensures compatibility and performance improvements.
- **System Airflow:** Ensure your computer case has adequate airflow to prevent heat buildup, which can affect GPU performance and lifespan.

6. Troubleshooting

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

- **No Display/Black Screen:**
  - Ensure the graphics card is fully seated in the PCIe slot.
  - Verify that all power connectors are securely attached to the graphics card.
  - 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.
- **High Temperatures/Thermal Throttling:**
  - Ensure your computer case has sufficient airflow and cooling.
  - Clean any dust buildup from the graphics card's fans and heatsink.
  - Monitor temperatures using AMD Adrenaline software and adjust fan curves if necessary.
- **Driver Issues/Instability:**
  - Perform a clean installation of the latest AMD Radeon drivers. Use a driver uninstaller utility to remove previous drivers completely, especially if switching from an NVIDIA GPU.
  - Ensure your operating system is up to date.

- **Fan Noise/Malfunction:**
  - Inspect fans for any obstructions.
  - If unusual noises persist, contact PowerColor support for assistance.

7. Specifications

Feature	Detail
Graphics Coprocessor	AMD Radeon RX 9070 XT
Brand	PowerColor
Graphics RAM Size	16 GB
Graphics RAM Type	GDDR6
GPU Clock Speed	2400 MHz
Memory Clock Speed	20 GHz
Video Output Interface	1 x HDMI 2.1, 3 x DisplayPort 2.1
Display Maximum Resolution	7680x4320
Graphics Card Interface	PCI-Express x16
Power Connector	Two 8-pin PCI Express Power Connector
Minimum System Power	750W
Card Dimensions (L x W x H)	289 mm x 111 mm x 41 mm (approx. 11.38"L x 4.37"W x 1.61"H)
Number of Fans	3
Model Number	RX9070XT 16G-A
Item Weight	215 g

8. Warranty and Support

Your PowerColor Reaper AMD Radeon RX 9070 XT graphics card comes with a**2 Year Limited Warranty**.
For technical support, warranty claims, or additional product information, please visit the official PowerColor website or their Amazon store:

Visit the PowerColor Store on Amazon

Please retain your proof of purchase for warranty purposes.

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