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Sapphire 11349-03-20G

Sapphire Pulse AMD Radeon RX 9070 Gaming Graphics Card User Manual

Model: 11349-03-20G

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Sapphire Pulse AMD Radeon RX 9070 Gaming Graphics Card. Please read this manual thoroughly before proceeding with installation to ensure optimal performance and system stability.



2. PACKAGE CONTENTS

Verify that all items are present in your product package:

- Sapphire Pulse AMD Radeon RX 9070 Gaming Graphics Card
- Quick Installation Guide (this document)
- Driver CD (or download instructions)

3. SETUP AND INSTALLATION

3.1. System Requirements

Before installation, ensure your system meets the following minimum requirements:

- PCI Express-compliant motherboard with one X16 graphics slot
- Minimum 750W power supply unit (PSU) with appropriate PCIe power connectors
- Minimum 8GB system memory (16GB recommended)
- Supported operating system (Windows 10/11 64-bit or Linux 64-bit)
- Internet connection for driver downloads

3.2. Physical Installation

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

1. **Power Off:** Turn off your computer and disconnect the power cable from the wall outlet.
2. **Open Case:** Open your computer case. Refer to your computer case manual for specific instructions.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that may be blocking the slot.
4. **Insert Graphics Card:** Carefully align the graphics card with the PCIe x16 slot and press down firmly until it is securely seated. Ensure the retention clip locks into place.
5. **Secure Card:** Fasten the graphics card to the computer case using the screw or latch mechanism provided by your case.
6. **Connect Power:** Connect the required PCIe power cables from your power supply to the graphics card. The Sapphire Pulse RX 9070 typically requires two 8-pin PCIe power connectors. Ensure all connectors are fully seated.
7. **Close Case:** Close your computer case and reconnect the power cable.



Image 3.1: Display output ports on the graphics card.

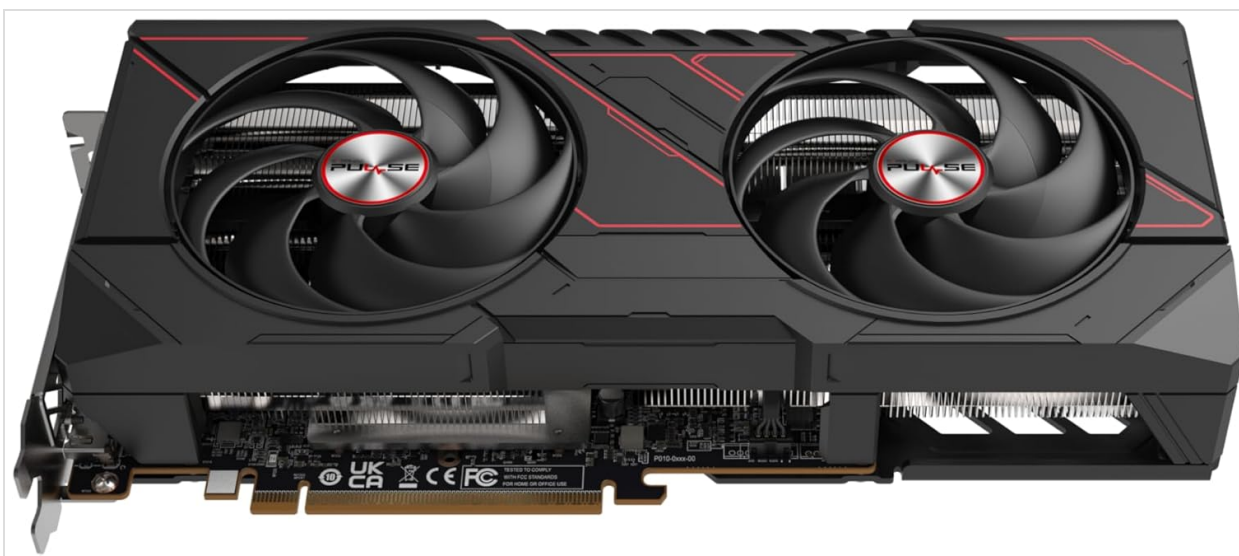


Image 3.2: Location of PCIe power connectors.

3.3. Driver Installation

After physical installation, you must install the graphics drivers:

1. **Power On:** Turn on your computer. If no display appears, connect your monitor to the motherboard's integrated graphics (if available) or use a basic display adapter.
2. **Download Drivers:** Visit the official AMD website (www.amd.com/en/support) or the Sapphire support page (www.sapphiretech.com/en/support) to download the latest drivers for the AMD Radeon RX 9070.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. It is recommended to perform a clean installation to remove any previous driver remnants.
4. **Restart:** Restart your computer after the driver installation is complete.

4. OPERATING THE GRAPHICS CARD

4.1. Connecting Displays

Connect your monitor(s) to the available display output ports on the graphics card. The Sapphire Pulse RX 9070 features 2x HDMI and 2x DisplayPort outputs. Use high-quality cables for optimal signal integrity.

4.2. Software Configuration

The AMD Adrenalin Software provides a comprehensive suite of tools for managing your graphics card. This software allows you to:

- Monitor performance metrics (temperature, clock speeds, fan speeds).
- Adjust graphics settings for games and applications.
- Update drivers.
- Access features like Radeon Anti-Lag, Radeon Boost, and Radeon Image Sharpening.

Refer to the AMD Adrenalin Software documentation for detailed usage instructions.

5. MAINTENANCE

5.1. Cleaning

Regular cleaning helps maintain optimal cooling performance and extends the lifespan of your graphics card:

- **Frequency:** Clean your graphics card every 3-6 months, or more frequently in dusty environments.
- **Procedure:** Power off your computer and disconnect it from the power source. Carefully remove the graphics card from the PCIe slot. Use compressed air to gently blow dust from the heatsink fins and fan blades. Hold the fan blades in place while blowing to prevent over-spinning and potential damage. Do not use liquid cleaners.

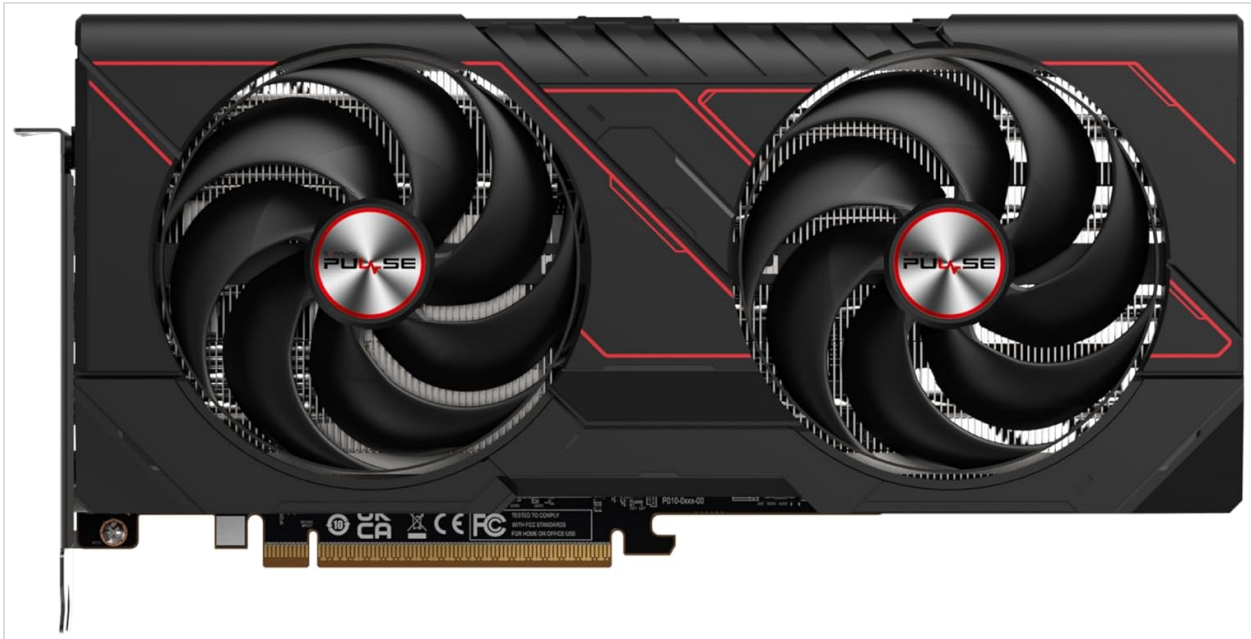


Image 5.1: Front view of the graphics card, highlighting the fans for cleaning.

5.2. Driver Updates

Keep your graphics drivers updated to ensure compatibility with the latest games and applications, improve performance, and address potential bugs. Check the AMD or Sapphire support websites regularly for new driver releases.

6. TROUBLESHOOTING

This section addresses common issues you might encounter:

- **No Display Output:**
 - Ensure the monitor cable is securely connected to the graphics card and the monitor.
 - Verify that the graphics card is fully seated in the PCIe slot.
 - Check that all PCIe power connectors are properly attached to the graphics card.
 - Test with a different display cable or monitor if possible.
 - Ensure your monitor is set to the correct input source.
- **System Instability or Crashes:**
 - Ensure your power supply unit (PSU) meets the recommended wattage.
 - Update your graphics drivers to the latest version.
 - Check system temperatures using monitoring software; overheating can cause instability.
 - Verify that your system RAM is stable (as suggested by some user reviews).
- **Graphical Artifacts or Distortions:**
 - Update your graphics drivers.
 - Check for overheating.
 - If the issue persists, the card may be faulty. Contact Sapphire support.

For further assistance, refer to the Sapphire support website or contact their technical support team.

7. SPECIFICATIONS

Key technical specifications for the Sapphire Pulse AMD Radeon RX 9070 Gaming Graphics Card:

Feature	Specification
Graphics Coprocessor	AMD Radeon RX 9070
Memory Size	16 GB GDDR6
Memory Interface	256-bit
Memory Speed	20 GHz
GPU Clock	2520 MHz
Max Screen Resolution	3840x2160
Video Output Interface	2 x HDMI, 2 x DisplayPort
Item Model Number	11349-03-20G
Product Dimensions	11.02 x 4.73 x 0.04 inches
Item Weight	2.98 pounds

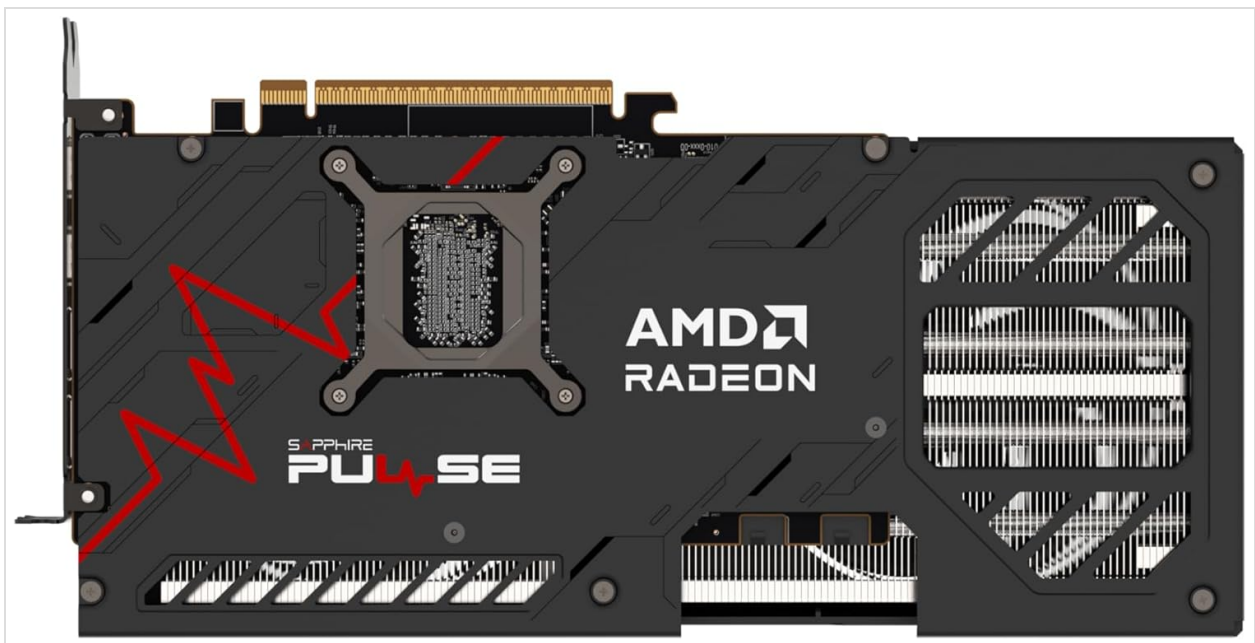


Image 7.1: Rear view of the graphics card, showing the backplate.

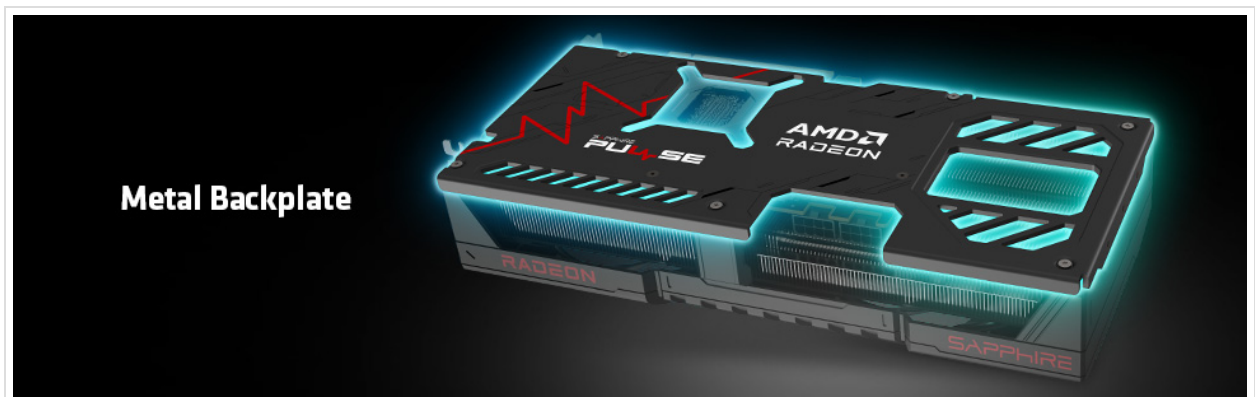


Image 7.2: Illustration of the Metal Backplate for structural integrity and cooling.



Image 7.3: AeroCurve Fan Blade design for enhanced airflow.



Image 7.4: FreeFlow cooling design for optimized heat dissipation.

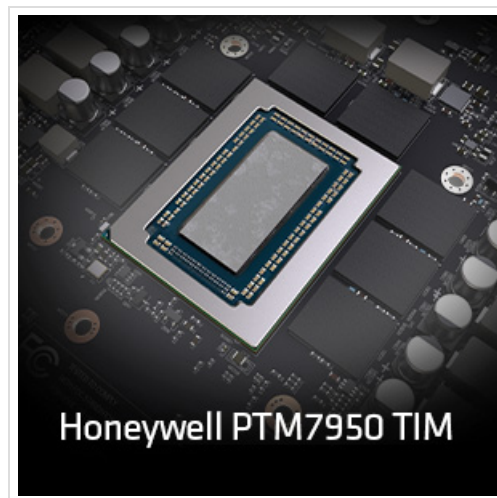


Image 7.5: Honeywell PTM7950 Thermal Interface Material for efficient heat transfer.

8. WARRANTY AND SUPPORT

Sapphire products are covered by a limited warranty. The specific terms and duration of your warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical support, driver downloads, and frequently asked questions, please visit the official Sapphire support website:

www.sapphiretech.com/en/support






You can also contact Sapphire customer service directly through the contact information provided on their website.

Related Documents - 11349-03-20G



[SAPPHIRE NITRO+ AMD Radeon RX 9070 XT Graphics Card OC - Specifications and Features](#)

Detailed specifications, features, system requirements, and dimensions for the SAPPHIRE NITRO+ AMD Radeon RX 9070 XT Graphics Card OC. This high-performance GPU features AMD RDNA 4 architecture, 16GB GDDR6 memory, PCIe 5.0 support, and advanced cooling for gaming and professional workloads.

 <p>IFIXIT Sapphire Vapor-X AMD R9 280x Teardown Guide to safely disassemble, clean, and maintain the Sapphire Vapor-X AMD R9 280x graphics card, focusing on fan and heatsink removal and reassembly. Written By: ifixit</p>	<p>Sapphire Vapor-X AMD R9 280x Teardown and Cleaning Guide</p> <p>A detailed step-by-step guide to safely disassemble, clean, and maintain the Sapphire Vapor-X AMD R9 280x graphics card, focusing on fan and heatsink removal and reassembly.</p>
 <p>SAPPHIRE M603 Sediment Filter The Sapphire M603 sediment filter is designed to filter the water in your cold water system. It is designed to be installed in the cold water line before the water enters the water heater. The filter is made of a fine mesh material that catches any sediment or debris that may be in the water. The filter is easy to install and remove, and it can be used for up to 6 months. The filter is made of a fine mesh material that catches any sediment or debris that may be in the water. The filter is easy to install and remove, and it can be used for up to 6 months.</p>	<p>Sapphire M603 Sediment Filter: Installation and Usage Guide</p> <p>Comprehensive guide for installing and optimizing the Sapphire M603 Sediment Filter. Includes pre-installation checks, positioning requirements, and step-by-step installation instructions for cold water systems.</p>
 <p>SAPPHIRE SAPPHIRE MAINBOARD QUICK INSTALLATION GUIDE B650M-E</p>	<p>Sapphire B650M-E Mainboard Quick Installation Guide</p> <p>This document provides a quick installation guide for the Sapphire B650M-E mainboard, covering safety information, technical specifications, installation steps, and driver installation. Includes multilingual support.</p>
 <p>SAPPHIRE SAPPHIRE Series 3 15" Slab-Full Dice Ice Machine Operator's Manual SSIM153SSPR and SSIM153SSPRADA</p>	<p>Sapphire Series 3 15" Slab-Full Dice Ice Machine Operator's Manual</p> <p>This manual provides comprehensive instructions for the installation, operation, care, and maintenance of the Sapphire Series 3 15" Slab-Full Dice Ice Machine, including models SSIM153SSPR and SSIM153SSPRADA. It covers safety precautions, specifications, troubleshooting, and warranty information.</p>
 <p>SAPPHIRE SAPPHIRE 15" Clear Ice Machine Operator's Manual Gourmet and Square Cube models</p>	<p>Sapphire 15-Inch Clear Ice Machine Operator's Manual</p> <p>This operator's manual provides comprehensive instructions for installing, operating, and maintaining Sapphire 15-inch Clear Ice Machines, including Gourmet and Square Cube models. It covers safety precautions, specifications, installation guidelines, troubleshooting, and maintenance procedures for indoor, outdoor, and ADA height compliant units.</p>

