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Sapphire 11348-01-20G

Sapphire Nitro+ AMD Radeon RX 9070 XT Graphics Card User Manual

Model: 11348-01-20G

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Sapphire Nitro+ AMD Radeon RX 9070 XT Gaming OC Graphics Card. Please read this manual thoroughly before installing and using your new graphics card to ensure optimal performance and longevity.



Image: The Sapphire Nitro+ AMD Radeon RX 9070 XT Graphics Card shown alongside its retail packaging.

PACKAGE CONTENTS

Verify that all items are present in your product package:

- Sapphire Nitro+ AMD Radeon RX 9070 XT Graphics Card
- User Manual (this document)
- Graphics Card Support Bracket
- Power Cable Adapter (if applicable)
- ARGB Sync Cable

Video: An unboxing video demonstrating the contents of the Sapphire Nitro+ AMD Radeon RX 9070 XT Graphics Card package, including the card and accessories.

SETUP AND INSTALLATION

Follow these steps to properly install your graphics card:

1. **Preparation:** Power off your computer and disconnect all cables. Open your computer case.
2. **Remove Old Graphics Card (if applicable):** If you are replacing an existing graphics card, carefully remove it by unscrewing its retention bracket and releasing the PCIe slot latch.

3. **Insert New Graphics Card:** Align the Sapphire Nitro+ RX 9070 XT with an available PCI Express x16 slot on your motherboard. Press down firmly until the card is securely seated and the PCIe slot latch engages. This card typically occupies three expansion slots.
4. **Secure the Card:** Use screws to secure the graphics card's retention bracket to your computer case.
5. **Connect Power Cables:** Connect the necessary PCIe power cables from your power supply to the graphics card. Ensure all connections are firm. This model features a hidden power cable design for a cleaner aesthetic.
6. **Install Support Bracket:** Due to the size and weight of the card, it is recommended to install the included anti-sag support bracket to prevent GPU sag over time.
7. **Close Case and Reconnect:** Close your computer case, reconnect all cables, and power on your system.
8. **Driver Installation:** Once your operating system loads, install the latest AMD Radeon drivers from the official AMD or Sapphire website.

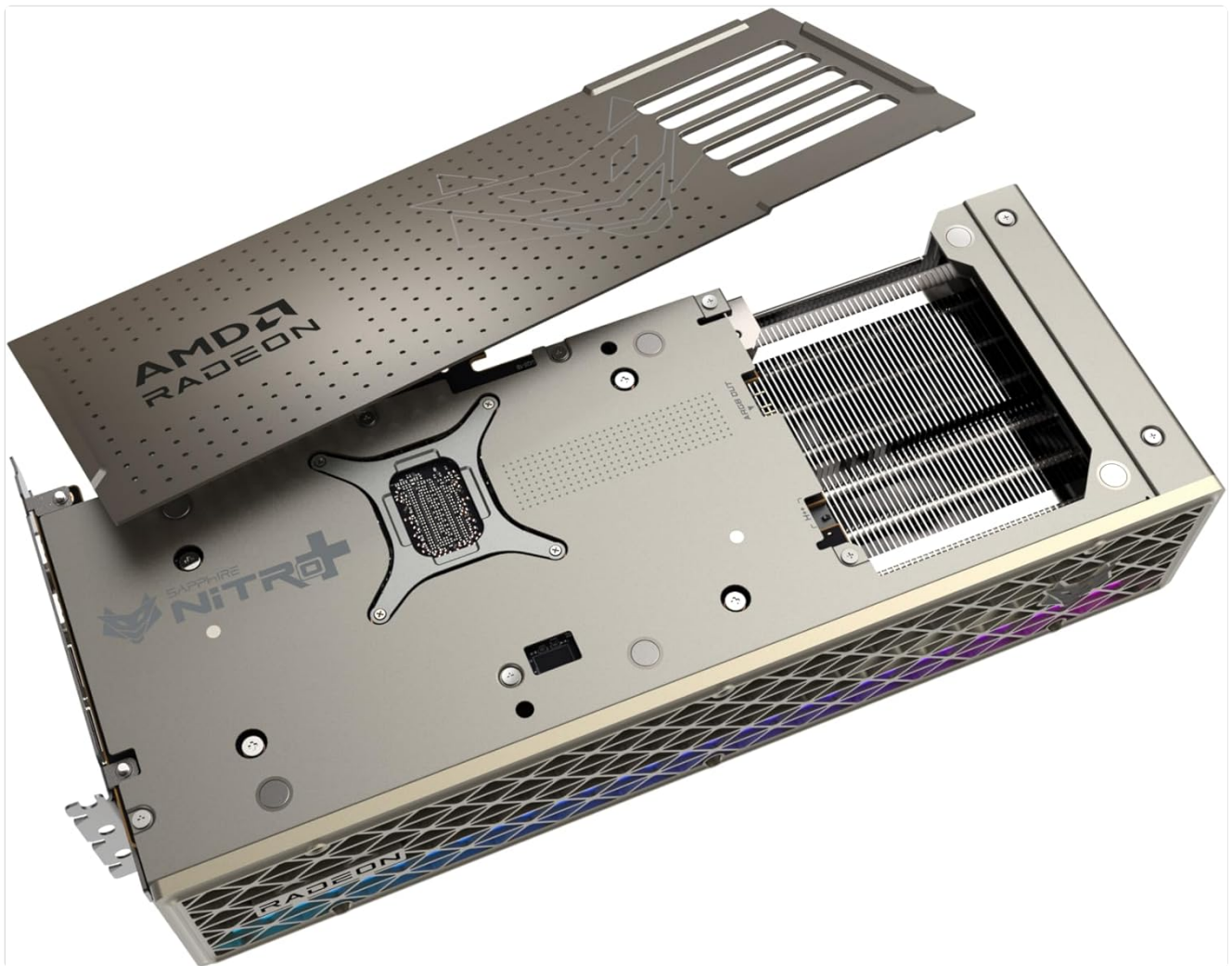


Image: The rear I/O panel of the graphics card, featuring multiple DisplayPort and HDMI outputs for connecting to monitors.

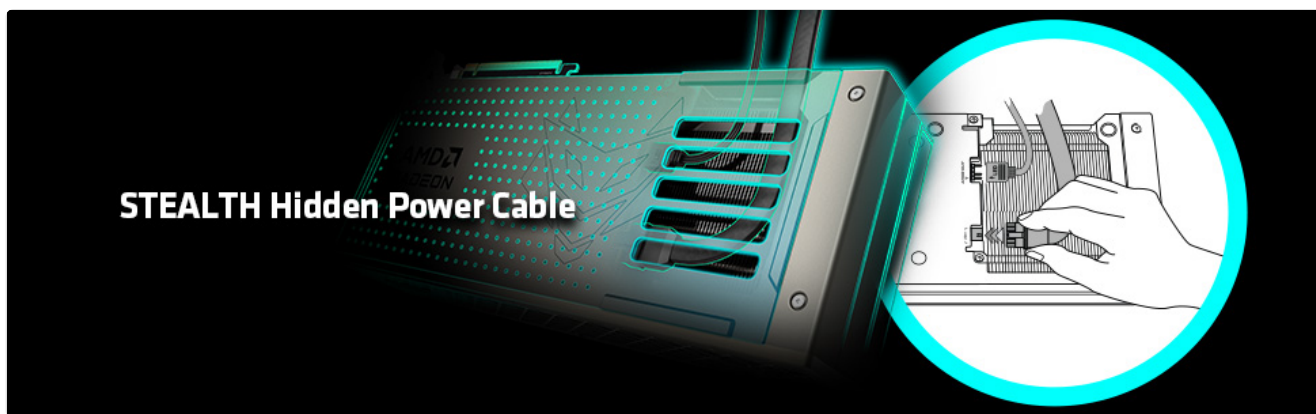


Image: A diagram showcasing the STEALTH Hidden Power Cable design, which routes power connectors for a cleaner build appearance.

OPERATING YOUR GRAPHICS CARD

After successful installation and driver setup, your Sapphire Nitro+ RX 9070 XT is ready for use. Connect your display(s) to the available ports (2 x HDMI, 2 x DisplayPort). For optimal performance, ensure your display cables are securely connected and your monitor is set to the correct input source.

Regularly check for driver updates through the AMD Radeon Software application to benefit from performance improvements and bug fixes. You can also utilize Sapphire's Trixx software for advanced monitoring, fan control, and RGB lighting customization.



Image: The graphics card displaying its integrated ARGB lighting, which can be customized for various visual effects.



Image: A detailed view of the Glow! ARGB Light Bar, highlighting its customizable illumination capabilities.

MAINTENANCE

To maintain optimal performance and extend the lifespan of your graphics card, periodic cleaning is recommended.

- **Dust Removal:** Use compressed air to gently clear dust from the fans and heatsink fins. Ensure the fans do not spin rapidly during cleaning to prevent damage.
- **Fan Inspection:** Periodically check the fans for any obstructions or unusual noises. The Quick Connect Fan feature allows for easy removal and cleaning of individual fans.
- **General Cleaning:** Wipe the exterior of the card with a soft, dry, anti-static cloth. Avoid using liquid cleaners directly on the card.



Image: A diagram demonstrating the Quick Connect Fan system, which allows for easy removal and replacement of the cooling fans.

TROUBLESHOOTING

If you encounter issues with your graphics card, consider the following common solutions:

- **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 the power cables are properly connected.
 - Check if your monitor is set to the correct input source.
- **System Instability or Crashes:**
 - Update your graphics drivers to the latest version.
 - Ensure your power supply unit (PSU) meets the minimum wattage requirements for the graphics card and your system.
 - Monitor GPU temperatures using software like AMD Radeon Software or Sapphire Trixx. Overheating can cause instability.
- **Poor Performance:**
 - Confirm that your display is connected to the graphics card, not the motherboard's integrated graphics.
 - Check in-game settings to ensure they are appropriate for your system's capabilities.
 - Ensure background applications are not consuming excessive system resources.

- **Fan Noise:**
 - Clean the fans and heatsink to remove dust buildup.
 - Adjust fan curves using AMD Radeon Software or Sapphire Trixx to find a balance between cooling and noise.

If issues persist, consult the Sapphire support website or contact their customer service.

SPECIFICATIONS


Feature	Detail
Model Number	11348-01-20G
Graphics Coprocessor	AMD Radeon RX 9070 XT
Memory Size	16 GB GDDR6
Memory Interface	256-bit
Memory Speed	20 GHz
GPU Clock Speed	3060 MHz
Max Screen Resolution	3840x2160
Output Ports	2 x HDMI, 2 x DisplayPort
Item Weight	5.72 pounds
Product Dimensions (LxWxH)	13.02 x 5.06 x 0.04 inches






WARRANTY AND SUPPORT

Your Sapphire Nitro+ AMD Radeon RX 9070 XT Graphics Card is covered by a manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official Sapphire website for detailed warranty terms and conditions.

For technical assistance, driver downloads, FAQs, and further support, please visit the [Sapphire Technology website](#). You may also find helpful resources and community support through the official AMD Radeon channels.

Related Documents - 11348-01-20G

	<p>SAPPHIRE NITRO+ AMD Radeon RX 9070 XT Graphics Card OC - Specifications and Features</p> <p>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>
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 <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: dthompson</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 supply to your cold water system. It is designed to be installed in the water supply 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 cleaned and reused. The filter is designed to last for up to 6 months of use. 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 cleaned and reused. The filter is designed to last for up to 6 months of use.</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 Adapting to Your Environment 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 Adapting to Your Environment Sapphire 15-Inch Clear Ice Machine Operator's Manual SSIM153SSPR and SSIM153SSPRADA</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>



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.



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