

## Sapphire 11349-01-20G

# Sapphire Nitro+ AMD Radeon RX 9070 Gaming OC Graphics Card User Manual

Model: 11349-01-20G

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your Sapphire Nitro+ AMD Radeon RX 9070 Gaming OC Graphics Card. Please read this manual thoroughly before installation and retain it for future reference. Proper installation and usage ensure optimal performance and longevity of your product.



Figure 1: Sapphire Nitro+ AMD Radeon RX 9070 Gaming OC Graphics Card and Packaging

## 2. SAFETY INFORMATION

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Observe the following safety precautions to prevent damage to the graphics card or personal injury:

- Always disconnect power from your computer before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity before handling the graphics card.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure adequate ventilation within your computer case to prevent overheating.
- Keep the graphics card away from moisture and extreme temperatures.

## 3. PACKAGE CONTENTS

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Verify that all items are present in your product package:

- Sapphire Nitro+ AMD Radeon RX 9070 Gaming OC Graphics Card
- Instruction Manual (this document)
- Additional accessories may vary by region or retailer.

## 4. SYSTEM REQUIREMENTS

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Before installing your graphics card, ensure your system meets the following minimum requirements:

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 750W power supply with appropriate PCIe power connectors (e.g., 8-pin + 8-pin).
- Minimum 16GB system memory (RAM).
- Operating System: Windows 10/11 64-bit or Linux 64-bit.
- Internet connection for driver installation.
- Sufficient space within the PC case for a card with dimensions of approximately 13.02 x 5.06 x 0.04 inches.

## 5. SETUP AND INSTALLATION

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Follow these steps to install your graphics card:

1. **Prepare Your System:** Turn off your computer and disconnect the power cable. 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 slot.
3. **Install the Graphics Card:** Carefully align the graphics card with the PCIe x16 slot. Press down firmly and evenly until the card is securely seated. A click may be heard.



Figure 2: Graphics Card Seated in PCIe Slot

4. **Secure the Card:** Use the screw or latch mechanism on your case to secure the graphics card to the chassis.
5. **Connect Power Cables:** Connect the required PCIe power cables from your power supply to the graphics card. This model typically requires two 8-pin PCIe power connectors. Ensure connections are

firm.

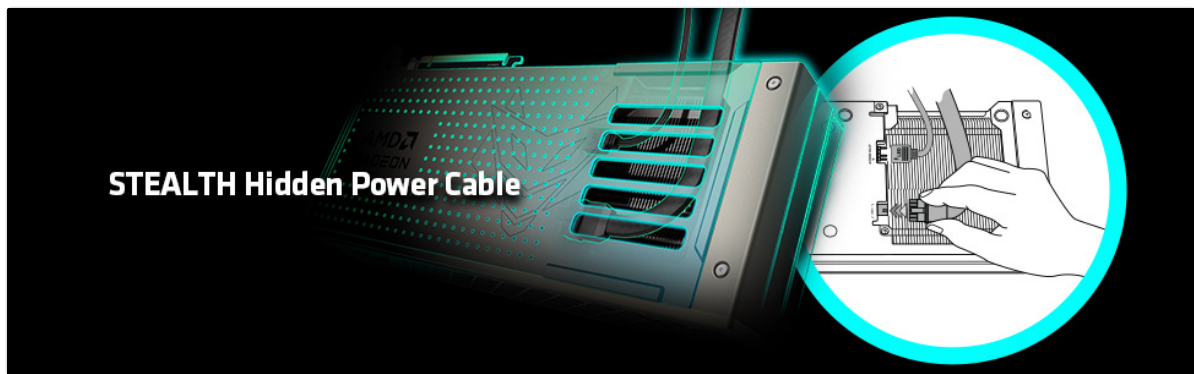


Figure 3: STEALTH Hidden Power Cable Routing

6. **Close Case and Connect Peripherals:** Close your computer case, reconnect the power cable, and connect your display cable (HDMI or DisplayPort) to the graphics card.
7. **Power On and Install Drivers:** Turn on your computer. Once the operating system loads, download and install the latest AMD Radeon drivers from the official AMD website ([www.amd.com/en/support](http://www.amd.com/en/support)).

## 6. OPERATING INSTRUCTIONS

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After successful installation and driver setup, your graphics card is ready for use. The AMD Radeon software provides various settings for optimizing performance, display, and other features.

- **Driver Updates:** Regularly check for and install the latest graphics drivers from AMD to ensure optimal performance and compatibility with new games and applications.
- **Display Configuration:** Use the AMD Radeon software or your operating system's display settings to configure resolution (up to 3840x2160), refresh rate, and multiple monitors.
- **Performance Tuning:** The AMD Radeon software allows for performance tuning, including fan speed control and power limit adjustments. Exercise caution when modifying these settings.



Figure 4: Customizable ARGB Light Bar

## 7. MAINTENANCE

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Proper maintenance helps extend the lifespan and maintain the performance of your graphics card.

- **Dust Removal:** Periodically clean dust from the heatsink fins and fan blades using compressed air. Ensure the fans are held stationary during cleaning to prevent damage.



Figure 5: Graphics Card Cooling Fans

- **Fan Care:** The Sapphire Nitro+ series features Quick Connect Fans, allowing for easy removal and cleaning. Refer to the manufacturer's guidelines for specific fan removal instructions.



Figure 6: Quick Connect Fan Feature

- **Thermal Paste:** Replacing thermal paste is generally not recommended for end-users and should only be performed by qualified technicians if necessary.

## 8. TROUBLESHOOTING

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

- **No Display Output:**
  - Ensure the display cable is securely connected to both the graphics card and the monitor.
  - Verify that the PCIe power cables are correctly connected to the graphics card.
  - Check if the graphics card is fully seated in the PCIe slot.
  - Test with a different display cable or monitor if possible.
- **System Instability/Crashes:**
  - Ensure your graphics drivers are up to date.
  - Check your power supply unit (PSU) to ensure it meets the recommended wattage.
  - Monitor GPU temperatures using software like AMD Radeon software. Excessive heat can cause instability.



- **Poor Performance in Games/Applications:**
  - Ensure your graphics drivers are up to date.
  - Check in-game settings; reduce resolution or graphics quality if necessary.
  - Verify that your system meets the recommended specifications for the application.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	11349-01-20G
Graphics Coprocessor	AMD Radeon RX 9070
Chipset Brand	AMD
Graphics Card RAM Size	16 GB GDDR6
Memory Interface	256-bit
Memory Speed	20 GHz
GPU Clock Speed	2700 MHz (Boost)
Max Screen Resolution	3840x2160
Video Output Interface	2 x HDMI, 2 x DisplayPort
Product Dimensions (LxWxH)	13.02 x 5.06 x 0.04 inches
Item Weight	5.99 pounds







## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Sapphire website. Warranty terms and conditions may vary by region and retailer.

**Online Resources:**

- Sapphire Official Website: [www.sapphiretech.com](http://www.sapphiretech.com)
- AMD Support: [www.amd.com/en/support](http://www.amd.com/en/support)

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	<p><a href="#">SAPPHIRE NITRO+ AMD Radeon RX 9070 XT Graphics Card OC - Specifications and Features</a></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>
	<p><a href="#">Sapphire Vapor-X AMD R9 280x Teardown and Cleaning Guide</a></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><a href="#">Sapphire M603 Sediment Filter: Installation and Usage Guide</a></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><a href="#">Sapphire B650M-E Mainboard Quick Installation Guide</a></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><a href="#">Sapphire Series 3 15" Slab-Full Dice Ice Machine Operator's Manual</a></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><a href="#">Sapphire 15-Inch Clear Ice Machine Operator's Manual</a></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>

THERACON



Allgemein	
Grafikprozessorenfamilie	AMD
GPU	Radeon RX 9070
Separater Grafik-Adapterspeicher	16 GB
Grafikartenspeichertyp	GDDR6
Breite der Speicherschnittstelle	256 Bit
Maximale Auflösung	7680 x 4320 Pixel
Geschwindigkeit	21 Gbit/s
Schnittstelle	PCI Express x16 5.0
Kühlung	Active
Anzahl Lüfter	3 Lüfter
Farben der Beleuchtung	Multi
Beleuchtung	Ja

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Datenblatt Sapphire NITRO AMD RADEON RX 9070 GAMING OC Gra kkarteSapphire kkarte 16GB GDDR6 2x HDMI Gruppe kkarten Hersteller Art Nr 11349 01 fiche technique 3395551 sapphire carte graphique amd radeon rx 16 gb gddr6 vram pcie x16 hdmi 21 displayportasset conrad media10 add 160267 c1 de 929388430DS00 fiche displayport 01 Sapphire 01 datenblatt grafikkarte 21fiche datenblatt 21asset |||| ||| Sapphire NITRO AMD RADEON RX 9070 GAMING OC Grafikkarte - 16GB GDDR6, 2x HDMI, GDDR6 Gruppe Hersteller Hersteller Art. Nr. EAN/UPC Grafikkarten Sapphire 11349-01-20G 4895106295933 Hauptmerkmale Grafikprozessorenfamilie GPU Separater Grafik- Sapphire NITRO AMD RADEON RX 9070 GAMING OC Grafikkarte - 16GB GDDR6, 2x HDMI, GDDR6 Gruppe Hersteller Hersteller Art. Nr. EAN/UPC Grafikkarten Sapphire **11349-01-20G** 4895106295933 Hauptmerkmale Grafikprozessorenfamilie GPU Separater Grafik-Adapterspeicher Grafikkartenspeichertyp Breite der Speic... lang:en score:31 filesize: 117.06 K page\_count: 1 document date: 2025-03-22