Sapphire 11350-01-20G

Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC 16GB Graphics Card User Manual

Model: 11350-01-20G

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC 16GB graphics card. Please read this manual thoroughly before installation and use to ensure proper functionality and to prevent damage to your system components.

Image: The Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC graphics card displayed alongside its retail packaging.

2. SAFETY INFORMATION

- Always disconnect the power supply from your computer before installing or removing any hardware components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity, which can damage sensitive electronic components.
- Handle the graphics card by its edges to avoid touching the components on the PCB.
- Ensure proper ventilation within your computer case to prevent overheating.
- Keep the graphics card away from moisture, dust, and extreme temperatures.
- If you encounter any difficulties during installation or operation, refer to the troubleshooting section or contact technical support.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC Graphics Card
- Quick Installation Guide (if included)
- Support Bracket (if included)

- ARGB Sync Cable (if included)

Image: The front of the retail box for the Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC graphics card.

Image: The side of the retail box for the Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC graphics card, showing product details.

4. SETUP AND INSTALLATION

4.1 Pre-Installation Checks

- **Power Supply:** Ensure your power supply unit (PSU) meets the recommended wattage for your system, including the graphics card. The RX 9060 XT typically requires a minimum 650W PSU with at least one 8-pin PCIe power connector.
- **Motherboard:** Confirm your motherboard has an available PCI Express x16 slot.
- **Case Clearance:** Check your PC case for sufficient space to accommodate the graphics card's dimensions (approximately 9.45 x 4.88 x 0.04 inches or 240 x 124 x 1 mm).
- **BIOS/UEFI:** Update your motherboard's BIOS/UEFI to the latest version for optimal compatibility.

4.2 Physical Installation

1. **Prepare Your System:** Power off your computer and unplug all cables. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers from your case that correspond to the graphics card's position.
3. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press it down firmly until it is securely seated. You should hear a click from the slot's retention clip.

Image: A front-angled view of the Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC graphics card, highlighting its triple-fan cooling system.

Image: A side view of the Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC graphics card, showing its thickness and cooling fins.
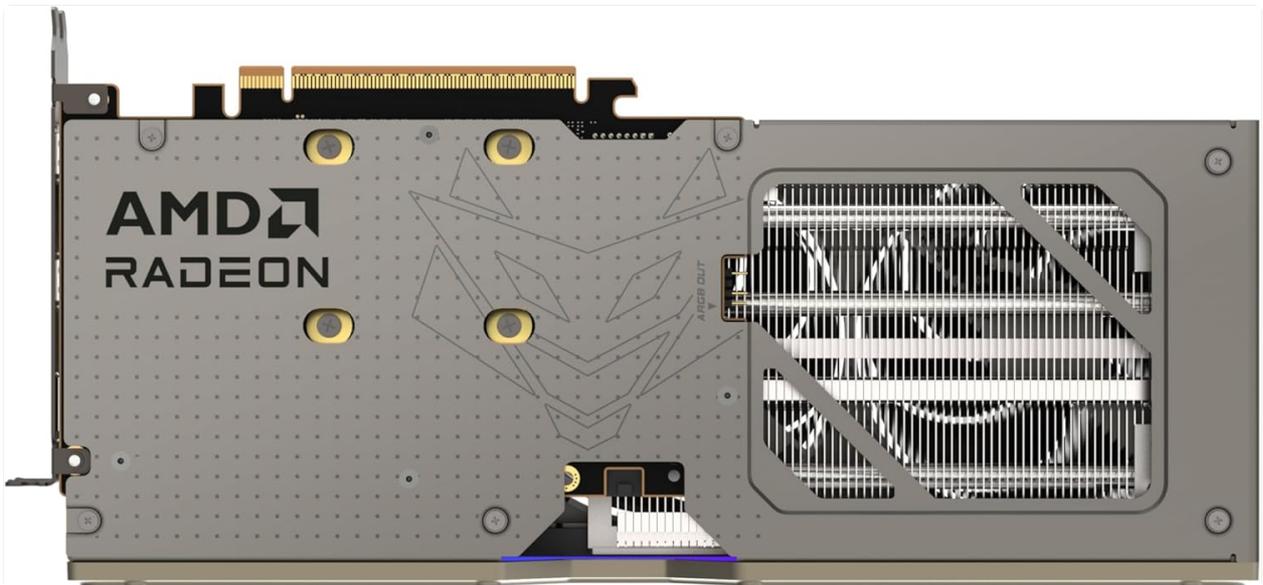
Image: The backplate of the Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC graphics card, featuring the AMD Radeon logo and ventilation.

4. **Secure the Card:** Fasten the graphics card to the case with screws.

5. **Connect Power:** Connect the 8-pin PCIe power connector(s) from your power supply to the corresponding port(s) on the graphics card. The 8-pin power connector is located on the rear side of the card.

6. **Connect ARGB Cable (Optional):** If your motherboard supports Addressable RGB (ARGB) and you wish to synchronize the card's lighting, connect the supplied ARGB sync cable from the graphics card to an available ARGB header on your motherboard. It is recommended to connect this cable before fully securing the card in the PCI-E slot.

7. **Close Case:** Replace the side panel of your computer case.

8. **Connect Display:** Connect your monitor(s) to the graphics card's display outputs (HDMI or DisplayPort).

5. OPERATING INSTRUCTIONS

5.1 Driver Installation

1. **Power On:** Connect all necessary peripherals and power on your computer.

2. **Initial Boot:** Your system may boot into a basic display mode.

3. **Download Drivers:** Visit the official AMD website (www.amd.com/en/support) and download the latest AMD Radeon Software Adrenalin Edition drivers for your RX 9060 XT graphics card and operating system.

4. **Install Drivers:** Run the downloaded installer and follow the on-screen instructions. It is recommended to perform a "Factory Reset" during installation if you are upgrading from a previous graphics card to ensure all old drivers are removed.

5. **Restart:** Restart your computer after the driver installation is complete.

5.2 Display Connections

The Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC features multiple display outputs for connecting monitors. Ensure your display cables are securely connected to the graphics card and your monitor.
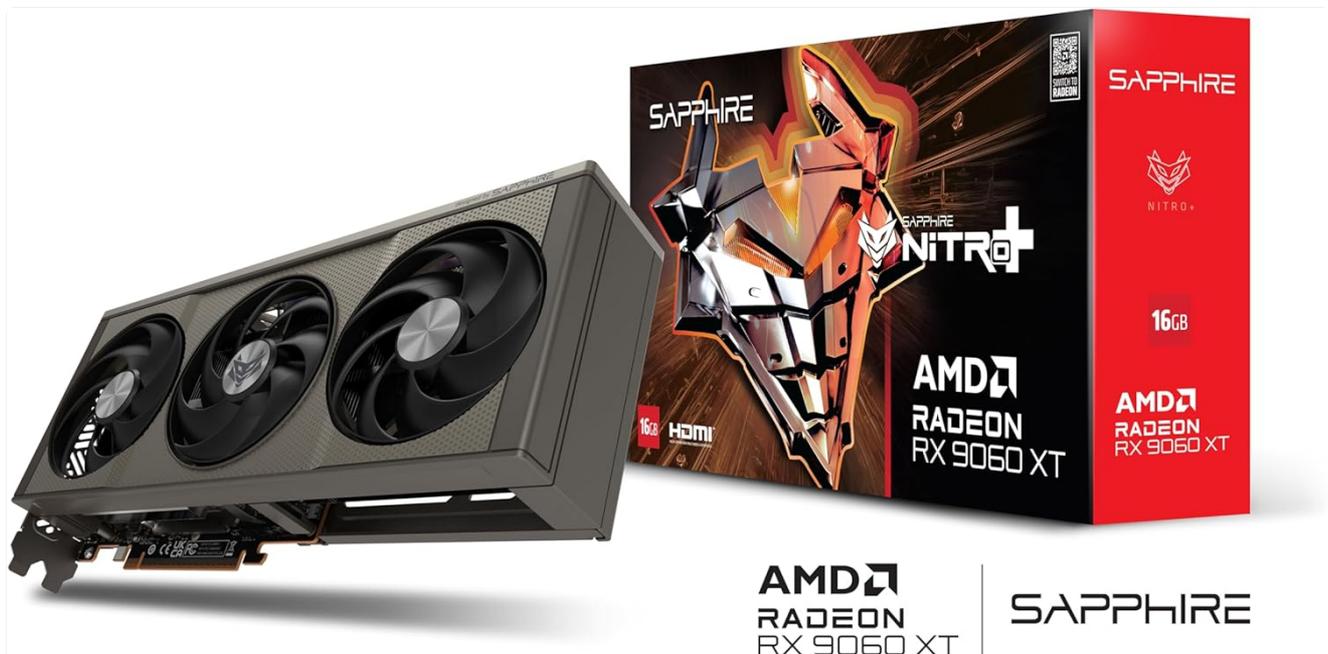
Image: A close-up view of the display output ports (HDMI and DisplayPort) on the Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC graphics card.

- **HDMI:** Connects to HDMI-compatible displays.
- **DisplayPort:** Connects to DisplayPort-compatible displays.

6. MAINTENANCE

- **Cleaning:** Periodically clean the fans and heatsink of the graphics card to prevent dust buildup, which can impede cooling performance. Use compressed air to gently blow dust away from the fins and fan blades. Ensure the system is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check the AMD website for the latest driver updates. Keeping your drivers current ensures optimal performance, stability, and access to new features.
- **System Ventilation:** Ensure your PC case has adequate airflow to dissipate heat generated by the graphics card and other components.

7. TROUBLESHOOTING

7.1 No Display Output

- Ensure the monitor is powered on and connected to the graphics card, not the motherboard's integrated graphics ports.
- Verify that the graphics card is fully seated in the PCIe slot and secured.
- Check that all PCIe power connectors are securely attached to the graphics card.
- Try a different display cable or monitor to rule out cable/monitor issues.
- If you have another graphics card, test it in the same slot to check if the slot is functional.

7.2 Performance Issues or Crashes

- Ensure you have the latest AMD Radeon drivers installed. Consider performing a clean driver installation using AMD's cleanup utility.
- Monitor GPU temperatures using software like AMD Radeon Software. High temperatures can lead to throttling or instability. Ensure proper case ventilation.

- Check your power supply unit (PSU) to ensure it provides sufficient and stable power to the graphics card.
- Verify that your system's RAM and CPU are functioning correctly and are not bottlenecking the GPU.

7.3 RGB Lighting Not Working

- Ensure the ARGB sync cable (if used) is correctly connected to both the graphics card and the motherboard's ARGB header.
- Check your motherboard's RGB software or the AMD Radeon Software for lighting control settings.

8. SPECIFICATIONS

Feature	Detail
Model Number	11350-01-20G
Graphics Coprocessor	Rrx9060xt
Brand	Sapphire
Graphics Card Ram Size	16 GB GDDR6
Memory Speed	2500 MHz (Effective 20 Gbps)
GPU Clock Speed	Up to 3320 MHz (Boost)
Max Screen Resolution	3840x2160 (4K)
Video Output Interface	DisplayPort, HDMI
Item Dimensions LxWxH	9.45 x 4.88 x 0.04 inches (approx. 240 x 124 x 1 mm)
Item Weight	1.1 pounds (approx. 0.5 kg)

9. WARRANTY AND SUPPORT

Your Sapphire Nitro+ AMD Radeon RX 9060 XT Gaming OC graphics card is covered by a manufacturer's warranty. For detailed warranty terms and conditions, please refer to the warranty information included with your product or visit the official Sapphire website.

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

Sapphire Support Website