

Sapphire RX 9070 XT

Sapphire Pure AMD Radeon RX 9070 XT Gaming OC 16GB Graphics Card User Manual

Model: RX 9070 XT (Part Number: 11348-02-20G)

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Sapphire Pure AMD Radeon RX 9070 XT Gaming OC 16GB Graphics Card. Please read this manual thoroughly before installing or using the product to ensure optimal performance and safety. Keep this manual for future reference.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the graphics card, your computer system, and to ensure personal safety:

- Always disconnect the computer from the power source before installation or removal of any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity before handling the graphics card. Static discharge can damage electronic components.
- Handle the graphics card by its edges. Avoid touching the gold-plated connector pins or other components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Do not expose the graphics card to moisture or extreme temperatures.
- If you encounter any issues, refer to the troubleshooting section or contact Sapphire support. Do not attempt to repair the card yourself.

3. PACKAGE CONTENTS

Please check the contents of your product box. While specific accessories may vary, a typical package for the Sapphire Pure AMD Radeon RX 9070 XT Gaming OC 16GB Graphics Card usually includes:

- Sapphire Pure AMD Radeon RX 9070 XT Graphics Card
- Quick Installation Guide
- Driver CD/DVD (or instructions for online download)
- Additional power cables (if required for your specific model)

If any items are missing or damaged, please contact your retailer or Sapphire support immediately.

4. SETUP

4.1. Physical Installation

1. **Prepare Your System:** Turn off your computer and disconnect the power cord from the wall outlet. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. This is typically the longest slot.
3. **Remove Slot Cover:** Remove the metal slot cover(s) from the back of your computer case corresponding to the chosen PCIe slot.
4. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press it down firmly until it is securely seated. A click may be heard as the retention clip engages.
5. **Secure Card:** Fasten the graphics card to the computer case using the screw(s) or retention mechanism.
6. **Connect Power:** Connect the required PCIe power cables from your power supply unit (PSU) to the graphics card's power connectors. The Sapphire Pure AMD Radeon RX 9070 XT typically requires two 8-pin PCIe power connectors. Ensure all connections are firm.
7. **Close Case:** Close your computer case and reconnect the power cord.

4.2. Driver Installation

1. **Power On:** Connect your monitor to one of the graphics card's display outputs (HDMI or DisplayPort) and power on your computer.
2. **Initial Boot:** Your operating system may boot with a basic display driver.
3. **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 AMD Radeon drivers for your RX 9070 XT graphics card.
4. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. It is recommended to perform a clean installation to avoid conflicts with previous drivers.
5. **Restart System:** Restart your computer after the driver installation is complete.



Image 1: Back of the Sapphire Pure AMD Radeon RX 9070 XT packaging, detailing product specifications and key features.

5. OPERATING

5.1. Basic Operation

Once the drivers are installed, your Sapphire Pure AMD Radeon RX 9070 XT graphics card is ready for use. Connect your display(s) to the available DisplayPort or HDMI outputs. The card supports up to 7680x4320 resolution.

5.2. AMD Adrenalin Software

The AMD Adrenalin software suite provides comprehensive control over your graphics card's performance and features. After driver installation, you can access Adrenalin to:

- **Performance Tuning:** Adjust settings such as undervolting, overclocking, and fan curves to optimize performance and thermal management.
- **Power Limits:** Configure power consumption limits for efficiency or maximum performance.
- **Gaming Features:** Utilize features like Anti-Lag+, Radeon Chill, and Radeon Boost for improved responsiveness and frame rates.
- **Recording & Streaming:** Access lightweight video recording capabilities.

- **System Monitoring:** View real-time system statistics through an overlay.

The Adrenalin software offers a flexible and integrated experience without requiring third-party tools or mandatory account creation.



Image 2: Front view of the Sapphire Pure AMD Radeon RX 9070 XT retail box, highlighting the product branding and model.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning. Hold the fan blades gently to prevent them from spinning too fast during cleaning.
- **Driver Updates:** Regularly check the AMD or Sapphire website for the latest driver updates. Keeping your drivers current can improve performance, stability, and introduce new features.
- **Temperature Monitoring:** Use the AMD Adrenalin software or other monitoring tools to keep an eye on your GPU temperatures, especially during heavy loads. Ensure temperatures remain within safe operating limits.

7. TROUBLESHOOTING

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

- **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 that all power cables are connected.
 - Test with a different display cable or monitor if possible.
- **Driver Issues/Crashes:**

- Perform a clean reinstallation of the latest graphics drivers from the AMD website.
- Check for any conflicting software or background applications.
- **Poor Performance/Overheating:**
 - Ensure your computer case has adequate airflow and that the graphics card fans are spinning.
 - Clean any dust accumulation from the heatsink and fans.
 - Verify that your power supply unit (PSU) meets the minimum wattage requirements for the graphics card and other system components.
 - Check GPU temperatures using monitoring software.
- **System Instability:**
 - Ensure your motherboard BIOS/UEFI is up to date.
 - Test system memory (RAM) for errors.

If problems persist after attempting these steps, contact Sapphire customer support.

8. SPECIFICATIONS

The following table outlines the key specifications for the Sapphire Pure AMD Radeon RX 9070 XT Gaming OC 16GB Graphics Card:

Feature	Specification
Graphics Coprocessor	AMD RADEON RX 9070 XT
Graphics Card Ram Size	16 GB
Memory Speed	2500 MHz
GPU Clock Speed	2460 MHz
Max Screen Resolution	7680x4320
Video Output Interface	DisplayPort, HDMI
Item Model Number	11348-02-20G
Item Weight	3.3 pounds
Product Dimensions (LxWxH)	11.81 x 11.81 x 0.04 inches
Color	Blanco



Image 3: Angled view of the Sapphire Pure AMD Radeon RX 9070 XT retail box, showcasing the design.

9. WARRANTY AND SUPPORT

Sapphire products are manufactured to high quality standards and are backed by a limited warranty. For detailed warranty information, including terms, conditions, and registration, please visit the official Sapphire website or refer to the warranty card included with your product.

For technical support, driver downloads, FAQs, and further assistance, please visit the Sapphire support website:

www.sapphiretech.com/en/support

When contacting support, please have your product model number (11348-02-20G) and serial number ready.

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