Sapphire 11348-03-20G

Sapphire Pulse AMD Radeon RX 9070 XT Gaming Graphics Card User Manual

Model: 11348-03-20G

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your Sapphire Pulse AMD Radeon RX 9070 XT Gaming Graphics Card. Please read this manual thoroughly before installation and retain it for future reference.

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

2. SAFETY INFORMATION

Observe the following safety precautions during installation and operation:

- Always disconnect power from your computer before installing or removing any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Do not expose the graphics card to moisture or extreme temperatures.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Sapphire Pulse AMD Radeon RX 9070 XT Graphics Card
- Instruction Manual (this document)

4. SETUP

4.1 Physical Installation

1. **Prepare Your System:** Power off your computer and unplug the power cable. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
3. **Remove Slot Covers:** Remove the necessary expansion slot covers from your computer case.
4. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip on the PCIe slot locks into place.
5. **Secure Card:** Secure the graphics card to the case with screws.
6. **Connect Power:** Connect the required 8-pin PCIe power connectors from your power supply to the graphics card. This model requires two 8-pin connectors. Ensure your power supply meets the recommended wattage (typically 750W or higher).

Image: An angled view of the graphics card, showing the triple-fan cooling system and the location for power cable connections.

4.2 Driver Installation

1. **Power On:** Close your computer case, reconnect the power cable, and power on your system.
2. **Initial Display:** Your system may boot with a basic display driver.
3. **Download Drivers:** Visit the official AMD website (www.amd.com/en/support) to download the latest AMD Radeon drivers for your RX 9070 XT graphics card.
4. **Install Drivers:** Follow the on-screen instructions to install the drivers. A system restart may be required.

5. OPERATING

5.1 Connecting Displays

The Sapphire Pulse AMD Radeon RX 9070 XT features multiple display outputs:

- 2 x HDMI ports
- 2 x DisplayPort ports

Connect your monitor(s) to the appropriate ports on the graphics card. Ensure your display cables are securely connected.

5.2 Software Utilities

Utilize the AMD Adrenalin Software for optimal performance and customization. This software allows you to:

- Monitor GPU performance and temperatures.
- Adjust game settings and profiles.
- Update drivers.
- Access various AMD features like Radeon Anti-Lag, Radeon Boost, and FidelityFX.

For additional control and monitoring specific to Sapphire cards, consider installing the Sapphire TriXX software from the official Sapphire website.

6. MAINTENANCE

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

6.1 Cleaning

- **Dust Removal:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the system is powered off and unplugged before cleaning. Hold the fan blades gently to prevent them from spinning rapidly during cleaning.
- **Exterior Cleaning:** Wipe the exterior of the card with a soft, dry cloth. Avoid using liquid cleaners.

6.2 Cooling System Features

Your Sapphire Pulse graphics card incorporates advanced cooling technologies:
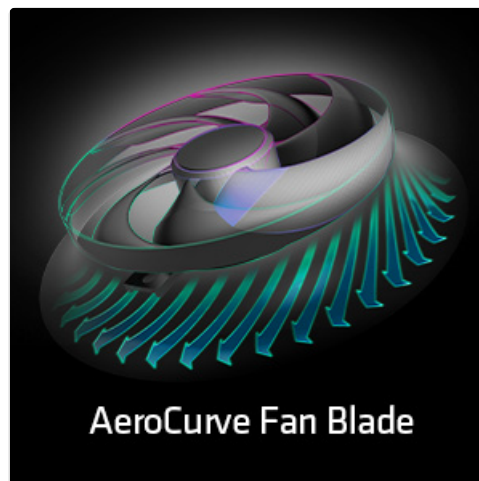

Image: AeroCurve Fan Blade design, optimized for airflow and pressure.

Image: FreeFlow cooling technology, designed to improve heat dissipation.
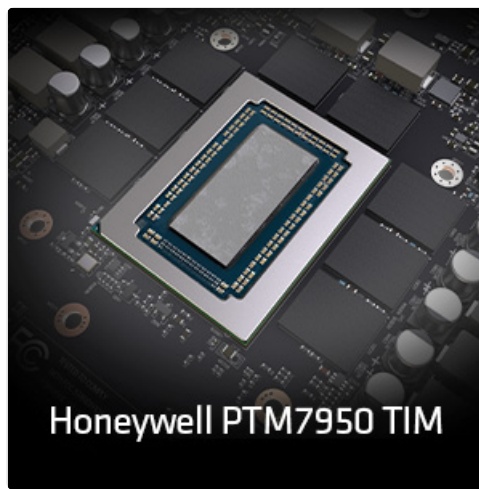

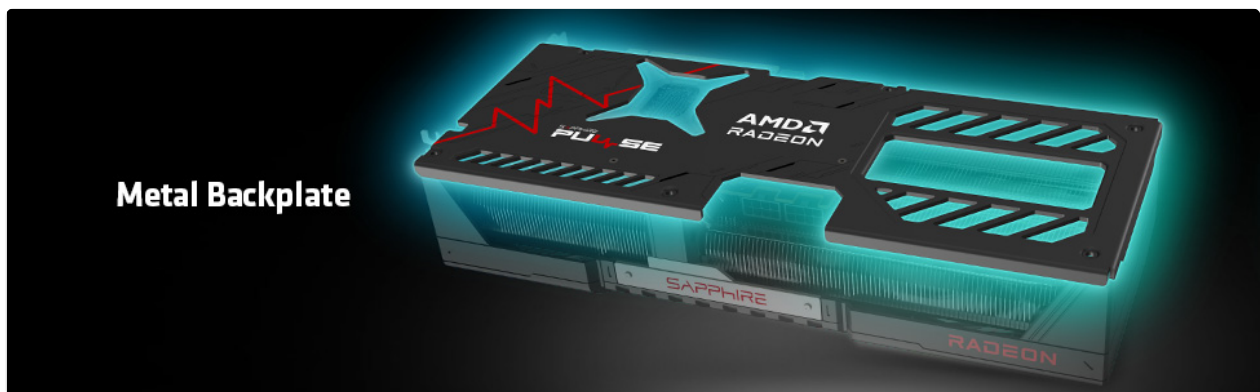Image: Honeywell PTM7950 TIM, a high-performance thermal interface material.

Image: The graphics card's metal backplate, contributing to structural rigidity and heat dissipation.
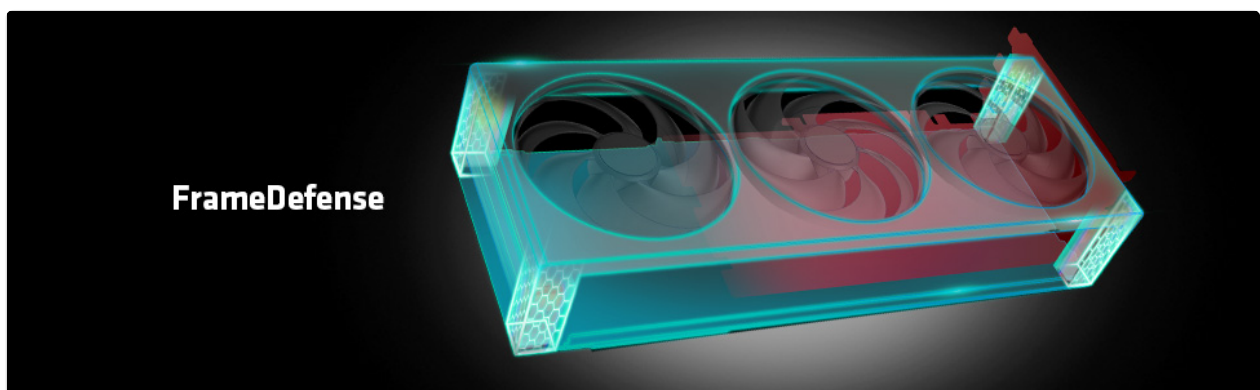

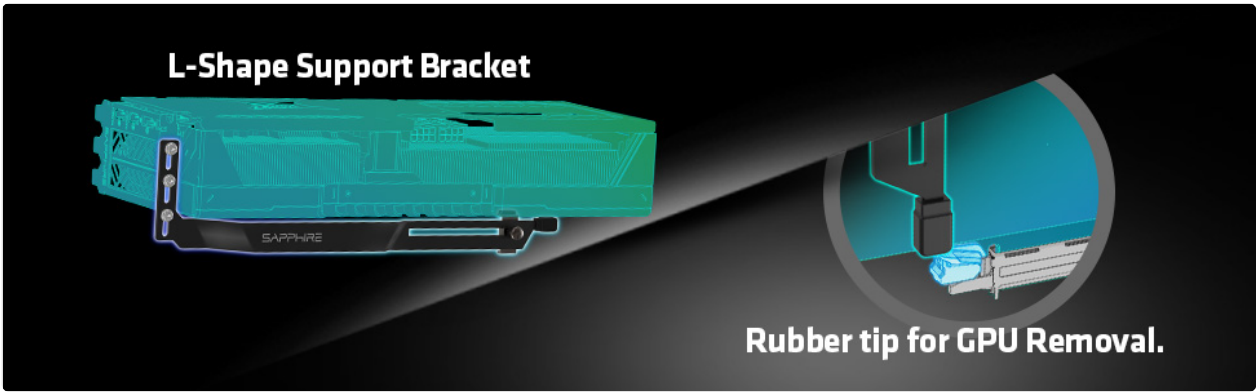Image: FrameDefense technology, providing structural reinforcement to the card.

Image: L-Shape Support Bracket with a rubber tip for easier GPU removal and added stability.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common solutions:

- **No Display:** Ensure the graphics card is fully seated in the PCIe slot and all power connectors are securely attached. Verify your monitor is connected to the graphics card and not the motherboard's integrated graphics.
- **Driver Issues:** Uninstall existing graphics drivers using a utility like Display Driver Uninstaller (DDU) in Safe Mode, then perform a clean installation of the latest drivers from AMD's official website.
- **Performance Problems:** Check for adequate system cooling. Ensure your power supply meets the minimum requirements. Verify game settings are appropriate for your hardware.
- **System Instability:** Ensure your motherboard BIOS is up to date. Check for conflicts with other hardware components.

For further assistance, consult the AMD support website or Sapphire's official support channels.

8. SPECIFICATIONS

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

Feature	Specification
Model Number	11348-03-20G
Graphics Coprocessor	AMD Radeon RX 9070 XT
Chipset Brand	AMD
Memory Size	16 GB GDDR6
Memory Interface	256-bit
Memory Speed	20 GHz
GPU Clock Speed	2970 MHz
Max Screen Resolution	3840x2160
Video Output Interface	2 x HDMI, 2 x DisplayPort
Item Weight	4.09 pounds

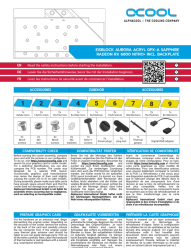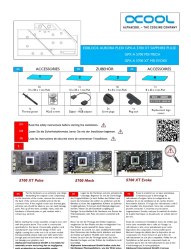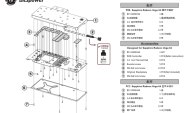| Feature	Specification
Product Dimensions (LxWxH)	12.6 x 4.73 x 0.04 inches

9. WARRANTY AND SUPPORT

Your Sapphire Pulse AMD Radeon RX 9070 XT Graphics Card is covered by a manufacturer's warranty. Please refer to the warranty information provided with your purchase or visit the official Sapphire website for details regarding warranty terms, conditions, and registration.
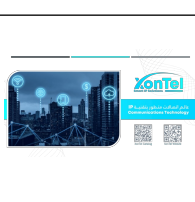
For technical support, driver updates, and additional resources, please visit the official Sapphire support website:

www.sapphiretech.com/en/support

Related Documents - 11348-03-20G

[Alphacool Eisblock Aurora Acryl GPX-A GPU Water Cooler Installation Guide](#)
Step-by-step installation guide for the Alphacool Eisblock Aurora Acryl GPX-A water cooler for Sapphire Radeon RX 6800 Nitro+ graphics cards, including compatibility checks and preparation.

[Alphacool Eisblock Aurora Plexi GPX-A 5700 XT Series Installation Guide](#)
Detailed installation guide for the Alphacool Eisblock Aurora Plexi GPX-A water cooling block for AMD Radeon 5700 XT graphics cards, covering Sapphire Pulse, MSI Mech, and MSI Evoke models.

[Sapphire Vapor-X AMD R9 280x Teardown and Cleaning Guide](#)
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.

[Bitspower BP-VGRXV64 Water Block Installation Guide for Sapphire Radeon Vega 64](#)
Detailed installation guide for the Bitspower BP-VGRXV64 water cooling block designed for the Sapphire Radeon Vega 64 graphics card, including parts list and thermal application instructions.

	FYHXele Laptop and Graphics Card Compatibility Guide A comprehensive compatibility list for laptops and graphics cards from major manufacturers like HP, Lenovo, Acer, ASUS, Dell, MSI, and more. Includes model numbers and specifications.
	XonTel IP Communications Solutions: IP-PBX, Switches, Phones & More Explore XonTel's comprehensive range of IP communications solutions, including IP-PBX systems, managed Gigabit POE switches, IP phones, intercoms, and gateways, designed for businesses and homes.

Documents - Sapphire – 11348-03-20G

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TRYTON Sp z o Sapphire Pulse AMD Radeon RX 9070 XT Gaming 16GB TrytonParametry Procesor graficzny RX9070XT Złącze PCI Express 16x Pojemność pamięci 16 GB Typ GDDR6 Szyna 256 bitowaKarta towarutryton pl cennik towar wydruk idtow 57358 |||

www.tryton.com.pl handel tryton.com.pl serwis tryton.com.pl tel. 56 30 70 070 pon-pt: 9:00-17:00, sob: nieczynne Sapphire Pulse AMD Radeon RX 9070 XT Gaming 16GB Producent: Sapphire Kod producenta: **11348-03-20G** Kod EAN: 4895106295919 Okres gwarancji: 36 mies. Typ gwarancji: Sprzedawcy Dostpno: bra...

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