XFX RX-97TQICKW9

XFX Quicksilver AMD Radeon RX 9070 XT Graphics Card User Manual

Model: RX-97TQICKW9

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your XFX Quicksilver AMD Radeon RX 9070 XT graphics card. Please read this guide thoroughly before proceeding with installation to ensure proper functionality and to prevent damage.

The XFX AMD Radeon RX 9070 XT Series graphics card is designed to deliver high-performance visual processing for demanding applications and gaming. It features 16GB of GDDR6 memory and the XFX QICK White Triple Fan Cooling Solution for efficient thermal management.

2. SAFETY INFORMATION

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

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- XFX Quicksilver AMD Radeon RX 9070 XT Graphics Card
- Quick Install Guide
- Support Bar (if included with specific model variant)

Image 1: The XFX Quicksilver AMD Radeon RX 9070 XT graphics card shown alongside its retail packaging.

4. SETUP AND INSTALLATION

4.1 System Requirements

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 750W power supply with two 8-pin PCIe power connectors.
- Minimum 8GB system memory (16GB recommended).
- Supported operating system (Windows 10/11 64-bit or Linux 64-bit).
- Internet connection for driver download.

4.2 Physical Installation

1. **Prepare Your System:** Power off your computer and disconnect all cables. Open the computer case.
2. **Remove Old Graphics Card (if applicable):** If replacing an existing card, carefully remove it.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers from the computer case that correspond to the card's position.
4. **Insert Graphics Card:** Align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip on the motherboard engages.

5. **Secure the Card:** Secure the graphics card to the computer case with screws.

6. **Connect Power Cables:** Connect two 8-pin PCIe power cables from your power supply to the corresponding power connectors on the graphics card. Ensure a firm connection.

Image 3: Angled view of the graphics card, illustrating the location of the power input connectors.

7. **Close Case and Reconnect:** Close your computer case, reconnect all cables, and power on your system.

4.3 Driver Installation

1. **Download Drivers:** Visit the official AMD website (www.amd.com/support) to download the latest drivers for your AMD Radeon RX 9070 XT graphics card.

2. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. It is recommended to perform a clean installation.

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

5. OPERATION

5.1 Connecting Displays

The XFX Quicksilver AMD Radeon RX 9070 XT features multiple display outputs. Connect your monitor(s) to the available ports:

- **HDMI:** For connecting to HDMI-compatible displays.
- **DisplayPort (3x):** For connecting to DisplayPort-compatible displays.

Ensure your display cables are securely connected to both the graphics card and your monitor(s).

Image 4: Rear view of the graphics card, displaying the HDMI and DisplayPort outputs.

5.2 AMD Software: Adrenalin Edition

After driver installation, you can utilize the AMD Software: Adrenalin Edition for advanced control over your graphics card. This software allows you to:

- Monitor performance metrics (temperatures, clock speeds, fan speeds).
- Adjust graphics settings for games and applications.

- Update drivers.
- Access features like Radeon Anti-Lag, Radeon Boost, and Radeon Image Sharpening.

Refer to the AMD website for detailed guides on using AMD Software: Adrenalin Edition.

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity 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.

Image 5: Top view of the graphics card, showcasing the three white cooling fans.

- **Driver Updates:** Keep your graphics drivers updated to benefit from performance improvements and bug fixes.
- **Temperature Monitoring:** Use AMD Software: Adrenalin Edition or other monitoring tools to keep an eye on your GPU temperatures, especially during heavy loads.

7. TROUBLESHOOTING

7.1 No Display Output

- Ensure the graphics card is fully seated in the PCIe slot.
- Verify that all PCIe power cables are securely connected to the graphics card.
- Check that the display cable is connected to the graphics card, not the motherboard's integrated graphics port.
- Test with a different display cable or monitor if possible.

7.2 Driver Installation Issues

- Uninstall any previous graphics drivers using a utility like Display Driver Uninstaller (DDU) in Safe Mode before attempting a fresh installation of AMD drivers.
- Ensure you have downloaded the correct drivers for your operating system and graphics card model from the official AMD website.

7.3 Overheating or Performance Issues

- Ensure your computer case has adequate airflow and that case fans are functioning correctly.
- Clean any dust accumulation from the graphics card's fans and heatsink.
- Verify that the graphics card's fans are spinning under load.
- Check for background applications consuming excessive resources.

8. TECHNICAL SPECIFICATIONS

Feature	Detail
Graphics Processor	AMD Radeon RX 9070 XT
Architecture	AMD RDNA 4
Video Memory	16 GB GDDR6
Memory Speed	20 GHz
Boost Clock	Up to 2970 MHz
Cooling Solution	XFX QICK White Triple Fan
Display Outputs	1x HDMI, 3x DisplayPort
Max Screen Resolution	3840x2160
Interface	PCI Express 4.0 x16
Power Connectors	2x 8-pin PCIe
Dimensions (LxWxH)	14.17 x 5.91 x 0.04 inches
Item Weight	4.69 pounds
Model Number	RX-97TQICKW9

9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official XFX website. XFX provides technical support for its products.

XFX Official Website: www.xfxforce.com/support

When contacting support, please have your product model number (RX-97TQICKW9) and serial number ready.