

XFX RX-97TMARGB9

XFX Mercury AMD Radeon RX 9070XT OC Magnetic Air Edition Graphics Card User Manual

Model: RX-97TMARGB9

1. INTRODUCTION

Welcome to the user manual for your new XFX Mercury AMD Radeon RX 9070XT OC Magnetic Air Edition Graphics Card. This manual provides essential information for the proper installation, operation, and maintenance of your graphics card. Please read this manual thoroughly before installation to ensure optimal performance and longevity of your product.

The XFX Mercury AMD Radeon RX 9070XT OC Magnetic Air Edition is a high-performance graphics card designed for demanding computing tasks, including gaming and content creation. It features the AMD RX 9070 XT chipset, 16GB of GDDR6 memory, and an advanced XFX MERC Magnetic Air Triple Fan Cooling Solution with customizable RGB lighting.

2. SAFETY INFORMATION

Please observe the following safety guidelines to prevent damage to the graphics card, other components, and personal injury:

- 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 (e.g., the computer case) to discharge static electricity before handling the graphics card.
- 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 all items are present in your product package:

- XFX Mercury AMD Radeon RX 9070XT OC Magnetic Air Edition Graphics Card
- Quick Install Guide

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

4. PRODUCT OVERVIEW

The XFX Mercury AMD Radeon RX 9070XT OC Magnetic Air Edition graphics card is engineered for high-performance computing. Key features include:

- **AMD RX 9070 XT Chipset:** Provides advanced graphics processing capabilities.
- **16GB GDDR6 Memory:** High-speed memory for demanding applications and games.
- **XFX MERC Magnetic Air Triple Fan Cooling:** Efficient cooling solution with easily removable magnetic fans for maintenance.
- **RGB Lighting:** Customizable lighting elements for aesthetic personalization.
- **Multiple Display Outputs:** Supports various display configurations via HDMI and DisplayPort.



Figure 1: The XFX Mercury AMD Radeon RX 9070XT OC Graphics Card alongside its retail packaging. This image illustrates the overall design of the card and its branding.



Figure 2: A direct front view of the XFX Mercury AMD Radeon RX 9070XT OC Graphics Card, highlighting its three cooling fans and the integrated RGB lighting strip.

5. SETUP

5.1 System Requirements

Before installation, ensure your system meets the following general requirements:

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 750W power supply (consult specific power supply recommendations for your system configuration).
- Minimum 8GB system memory (16GB or more recommended).
- Supported operating system (Windows 10/11 64-bit or Linux 64-bit).
- Internet connection for driver installation.

5.2 Hardware Installation

1. Turn off your computer and disconnect the power cable from the wall outlet.
2. Open your computer case.
3. Locate an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.
4. Carefully align the graphics card with the PCI Express x16 slot and press it firmly until it is securely seated. Ensure the retention clip on the motherboard slot locks into place.
5. Secure the graphics card to the computer case with screws.
6. Connect the required PCI Express power connectors from your power supply to the graphics card. This model typically requires two 8-pin (6+2 pin) PCIe power connectors. Ensure all pins are fully seated.
7. Close your computer case.
8. Reconnect the power cable to the wall outlet and turn on your computer.



Figure 3: A side view of the XFX Mercury AMD Radeon RX 9070XT OC Graphics Card, illustrating the robust heatsink design and the protective backplate, which are crucial for thermal management and structural integrity during installation.

6. OPERATING

6.1 Driver Installation

After physical installation, the operating system may install a generic display driver. For full functionality and performance, you must install the latest AMD Radeon drivers:

1. Visit the official AMD website (www.amd.com/en/support) or the XFX support page (www.xfxforce.com/support).
2. Download the latest AMD Radeon Software Adrenalin Edition for your operating system and graphics card model (RX 9070XT).
3. Run the downloaded installer and follow the on-screen instructions. A clean installation is recommended.
4. Restart your computer after the installation is complete.

6.2 Display Connection

Connect your monitor(s) to the graphics card's output ports. This card features HDMI and DisplayPort outputs. Use high-quality cables for optimal signal integrity.

6.3 RGB Control

The integrated RGB lighting can be customized using the AMD Radeon Software Adrenalin Edition or compatible third-party RGB control software. Refer to the software's documentation for detailed instructions on adjusting lighting effects and colors.

7. MAINTENANCE

7.1 Cleaning

Regular cleaning helps maintain optimal cooling performance. Ensure the computer is powered off and unplugged before cleaning.

- Use compressed air to remove dust from the heatsink fins and fan blades. Hold the fans gently to prevent them from spinning excessively during cleaning.
- The XFX MERC Magnetic Air fans are designed for easy removal. Gently pull the fan assembly upwards to detach it from the heatsink for thorough cleaning. Reattach by aligning and pressing down until the magnets secure it.
- Wipe the exterior of the card with a soft, dry, anti-static cloth.



Figure 4: An exploded view of the XFX Mercury AMD Radeon RX 9070XT OC Graphics Card, demonstrating the magnetic attachment mechanism of the cooling fans, which allows for easy removal and cleaning.

7.2 Driver Updates

Periodically check the AMD website for updated drivers. Keeping your drivers current ensures access to the latest performance optimizations, bug fixes, and new features.

8. TROUBLESHOOTING

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

- **No Display Output:**
 - Ensure the monitor is connected to the graphics card, not the motherboard's integrated graphics port.
 - Verify all power cables are securely connected to the graphics card and power supply.
 - Try a different display cable or monitor.
 - Reseat the graphics card in its PCIe slot.
- **Performance Issues/Low FPS:**
 - Ensure the latest graphics drivers are installed.
 - Check in-game graphics settings; reduce settings if necessary.
 - Monitor GPU temperatures to ensure it's not overheating (use AMD Radeon Software).
 - Verify your power supply is sufficient for your system.
- **Overheating:**
 - Ensure adequate airflow in your computer case.
 - Clean the graphics card fans and heatsink from dust.
 - Adjust fan curves in AMD Radeon Software for more aggressive cooling if temperatures are consistently high.
- **Driver Crashes/System Instability:**
 - Perform a clean installation of the graphics drivers.
 - Ensure your operating system is up to date.
 - Check for any conflicting software.

For more advanced troubleshooting or persistent issues, refer to the XFX support website or contact their technical support.

9. SPECIFICATIONS

Feature	Specification
Model Number	RX-97TMARGB9
Graphics Coprocessor	AMD RX 9070 XT
Memory	16 GB GDDR6
GPU Clock Speed (Base)	1870 MHz
Boost Clock	Up to 3100 MHz
Cooling Solution	XFx MERC Magnetic Air Triple Fan
Video Output Interface	DisplayPort, HDMI
Product Dimensions	14.17 x 6.3 x 0.04 inches

Feature	Specification
Item Weight	5.1 pounds

10. WARRANTY AND SUPPORT

XFX products are covered by a limited warranty. The specific terms and duration of your warranty may vary by region and product. Please retain your proof of purchase for warranty claims.

For detailed warranty information, technical support, driver downloads, and frequently asked questions, please visit the official XFX support website:

www.xfxforce.com/support

You may also contact XFX customer service directly through the contact options provided on their website.

© 2025 XFX. All rights reserved. AMD, the AMD Arrow logo, Radeon, and combinations thereof are trademarks of Advanced Micro Devices, Inc.

Information in this document is subject to change without notice.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question