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XFX RX-76TQICKBP

XFX Speedster QICK309 Radeon RX 7600XT Graphics Card User Manual

Model: RX-76TQICKBP

Introduction | Setup | Operating | Maintenance | Warranty & Support | Troubleshooting | Specifications

1. Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your XFX Speedster QICK309 Radeon RX 7600XT Black Gaming Graphics Card. Please read this manual thoroughly before installing and using your new graphics card to ensure optimal performance and longevity.

The XFX AMD Radeon RX 7000 Series graphics cards, featuring the AMD RDNA 3 architecture, are designed to deliver high frame rates for gaming and demanding applications.



Figure 1: Front angled view of the XFX Speedster QICK309 Radeon RX 7600XT Graphics Card. This image shows the triple fan design and the overall length of the card.

2. Setup and Installation

2.1 System Requirements

- **PCI Express Compatible Motherboard:** A motherboard with at least one PCI Express x16 slot.
- **Power Supply:** A power supply unit (PSU) with sufficient wattage and appropriate PCIe power connectors. Refer to your PSU's specifications for compatibility.
- **Operating System:** Windows 10/11 64-bit or Linux 64-bit.
- **Memory:** Minimum 8GB system RAM, 16GB recommended.
- **Case Clearance:** Ensure your computer case has adequate space for the graphics card dimensions.

2.2 Physical Installation

1. **Prepare Your System:** Power off your computer and unplug all cables. Open the computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.
3. **Install Graphics Card:** Carefully align the graphics card with the PCIe slot and press it firmly until it seats correctly. Secure the card with the case's retention mechanism or screws.

4. **Connect Power:** Connect the required PCIe power cables from your power supply to the graphics card. Ensure all connections are secure.
5. **Close Case:** Close your computer case and reconnect all cables.



Figure 2: Side view of the graphics card, highlighting the display output ports (HDMI and DisplayPort) and the PCIe connector.

2.3 Driver Installation

1. **Power On:** Connect your display to one of the graphics card's output ports (HDMI or DisplayPort) and power on your computer.
2. **Download Drivers:** Navigate to the official AMD website (www.amd.com/en/support) and download the latest AMD Radeon Software Adrenalin Edition drivers for your RX 7600 XT graphics card and operating system.
3. **Install Drivers:** Run the downloaded installer and follow the on-screen instructions. A system restart may be

required after installation.

3. Operating Your Graphics Card

3.1 Connecting Displays

The XFX Speedster QICK309 Radeon RX 7600XT supports multiple display outputs, including HDMI and DisplayPort. Connect your monitor(s) to the available ports on the graphics card. For multi-monitor setups, configure display settings within your operating system or through the AMD Radeon Software.

3.2 AMD Radeon Software Adrenalin Edition

The AMD Radeon Software Adrenalin Edition provides a comprehensive suite of tools to optimize your gaming experience and manage your graphics card settings. Key features include:

- **Game Optimization:** Automatically optimize game settings for performance and visual quality.
- **Performance Monitoring:** Monitor GPU temperature, clock speeds, and utilization in real-time.
- **Display Settings:** Adjust resolution, refresh rate, FreeSync, and color settings.
- **Gaming Features:** Utilize features like Anti-Lag, Radeon Boost, Radeon Image Sharpening, and Fluid Motion Frames for enhanced responsiveness and visual clarity.
- **Driver Updates:** Keep your graphics drivers up-to-date directly through the software.



Figure 3: Top view of the graphics card, showcasing the three cooling fans and the XFX branding.

4. Maintenance

4.1 Cleaning Your Graphics Card

Regular cleaning helps maintain optimal performance and extends the lifespan of your graphics card. Dust accumulation can impede cooling efficiency.

- **Frequency:** Clean your graphics card every 3-6 months, or more frequently in dusty environments.
- **Procedure:**
    a. Power off your computer and unplug it from the wall.
    b. Carefully remove the graphics card from your system.
    c. Use compressed air to gently blow dust from the fans, heatsink fins, and other components. Hold the fans to prevent them from spinning rapidly during cleaning.
    d. For stubborn dust, use a soft brush or cotton swab lightly dampened with isopropyl alcohol.
    e. Ensure the card is completely dry before reinstallation.



Figure 4: Backplate view of the graphics card, showing the protective metal plate and ventilation cutouts.

4.2 Software Updates

Regularly update your graphics drivers and AMD Radeon Software to benefit from performance improvements, bug fixes, and new features. You can check for updates directly through the AMD Radeon Software Adrenalin Edition.

5. Troubleshooting

This section addresses common issues you might encounter with your graphics card.

5.1 No Display Output

- **Check Cables:** Ensure the display cable (HDMI/DisplayPort) is securely connected to both the graphics card and the monitor.
- **Power Connections:** Verify that all PCIe power cables are correctly connected to the graphics card.
- **Monitor Input:** Confirm your monitor is set to the correct input source.
- **Reseat Card:** Power off and unplug your PC, then reseat the graphics card in its PCIe slot.

5.2 Driver Issues or Crashes

- **Reinstall Drivers:** Perform a clean installation of the latest AMD drivers. Use the AMD Cleanup Utility to remove previous driver versions before installing new ones.
- **Check Compatibility:** Ensure your operating system is fully updated and compatible with the latest drivers.

5.3 Poor Performance or Overheating

- **Monitor Temperatures:** Use AMD Radeon Software to monitor GPU temperatures during operation. High temperatures can lead to performance throttling.
- **Improve Airflow:** Ensure adequate airflow within your computer case. Clean any dust from the graphics card fans and heatsink.
- **Game Settings:** Reduce in-game graphics settings if performance is consistently low.
- **Power Supply:** Verify your PSU provides sufficient and stable power to the graphics card.

6. Specifications

Detailed technical specifications for the XFX Speedster QICK309 Radeon RX 7600XT Graphics Card:

Feature	Detail
Graphics Coprocessor	AMD Radeon RX 7600 XT
Brand	XFX
Graphics RAM Size	16 GB
Video Output Interface	DisplayPort, HDMI
Graphics Processor Manufacturer	AMD

Feature	Detail
Graphics RAM Type	GDDR6
Compatible Devices	Desktop
Display Resolution Maximum	2560x1440
Graphics Card Interface	PCI-Express x16
Memory Clock Speed	18 GHz
Model Name	RX 7600 XT
Graphics Description	AMD Radeon RX 7600 XT with 16GB GDDR6, 128-bit memory bus, up to 2810 MHz boost clock, 32 compute units, 2048 stream processors, and 3-fan cooling
Item Weight	900 Grams

7. Warranty and Support

7.1 Manufacturer's Warranty

This XFX graphics card comes with a**3-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, modification, or unauthorized repair.

7.2 Technical Support

For technical assistance, driver downloads, or further troubleshooting not covered in this manual, please visit the official XFX support website:

www.xfxforce.com/support

You may also find helpful resources and community forums on the AMD support website.

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