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› [XFX Speedster SWFT210 Radeon RX 6650XT CORE Gaming Graphics Card Instruction Manual](#)

XFX RX-665X8DFDY

XFX Speedster SWFT210 Radeon RX 6650XT CORE Gaming Graphics Card

Model: RX-665X8DFDY

Brand: XFX

INTRODUCTION

The XFX Speedster SWFT210 Radeon RX 6650XT CORE Gaming Graphics Card is designed to deliver high-performance graphics for gaming and demanding applications. Featuring AMD RDNA 2 architecture and 8GB GDDR6 memory, this card is engineered for efficient cooling and stable operation. This manual provides essential information for proper installation, configuration, and maintenance of your graphics card.



Figure 1: XFX Speedster SWFT210 Radeon RX 6650XT Graphics Card and its retail packaging.

WHAT'S IN THE BOX

Upon opening the package, verify that all components are present:

- XFX Speedster SWFT210 Radeon RX 6650XT CORE Gaming Graphics Card
- Quick Install Guide

SETUP

System Requirements

- PCI Express x16 slot on motherboard

- Minimum 650W power supply recommended (check specific power requirements for your system configuration)
- Compatible operating system (Windows 10/11 64-bit recommended)
- At least 8GB system memory (RAM)
- Internet connection for driver installation

Physical Installation

1. **Power Off and Disconnect:** Before beginning, power off your computer and unplug it from the wall outlet.
2. **Open PC Case:** Remove the side panel of your computer case to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCI Express 4.0 x16 slot on your motherboard. This is typically the top-most long slot.
4. **Remove Slot Covers:** Remove the necessary expansion slot covers from the back of your PC case that align with the chosen PCIe slot.
5. **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.
6. **Secure Card:** Use screws to secure the graphics card to the PC case at the expansion slot bracket.
7. **Connect Power:** Connect the appropriate PCIe power cables from your power supply to the graphics card. The XFX RX 6650XT typically requires an 8-pin power connector. Ensure a snug fit.
8. **Close PC Case:** Replace the side panel of your computer case.
9. **Connect Display:** Connect your monitor to one of the display outputs on the graphics card (HDMI or DisplayPort).





Figure 2: Side view of the graphics card, highlighting the dual fan cooling system.

Driver Installation

1. **Power On:** Plug in your computer and power it on.
2. **Initial Boot:** The system may boot into a basic display mode.
3. **Download Drivers:** Navigate to the official AMD website or XFX support page to download the latest Radeon Software Adrenalin Edition drivers for the RX 6650 XT.
4. **Install Drivers:** Run the downloaded installer and follow the on-screen prompts. It is recommended to perform a clean installation to avoid conflicts with previous drivers.
5. **Restart System:** After the installation is complete, restart your computer as prompted.

OPERATING

Basic Functionality

Once drivers are installed, your graphics card will be fully operational. You can connect up to three DisplayPort monitors and one HDMI monitor simultaneously for multi-display setups. The card supports a maximum resolution of 3840x2160.

Radeon Software Adrenalin Edition

The Radeon Software Adrenalin Edition provides a comprehensive interface for managing your graphics card settings. This software allows you to:

- Monitor GPU performance, temperature, and fan speeds.
- Adjust game-specific graphics settings for optimal performance or visual quality.
- Enable features like Radeon Anti-Lag, Radeon Boost, and Radeon Image Sharpening.
- Update graphics drivers.

Performance Optimization

For optimal gaming performance, ensure your system's power plan is set to 'High Performance'. Within Radeon Software, you can utilize the 'Gaming' tab to automatically optimize game settings or manually fine-tune them for your preferred balance of fidelity and frame rate.

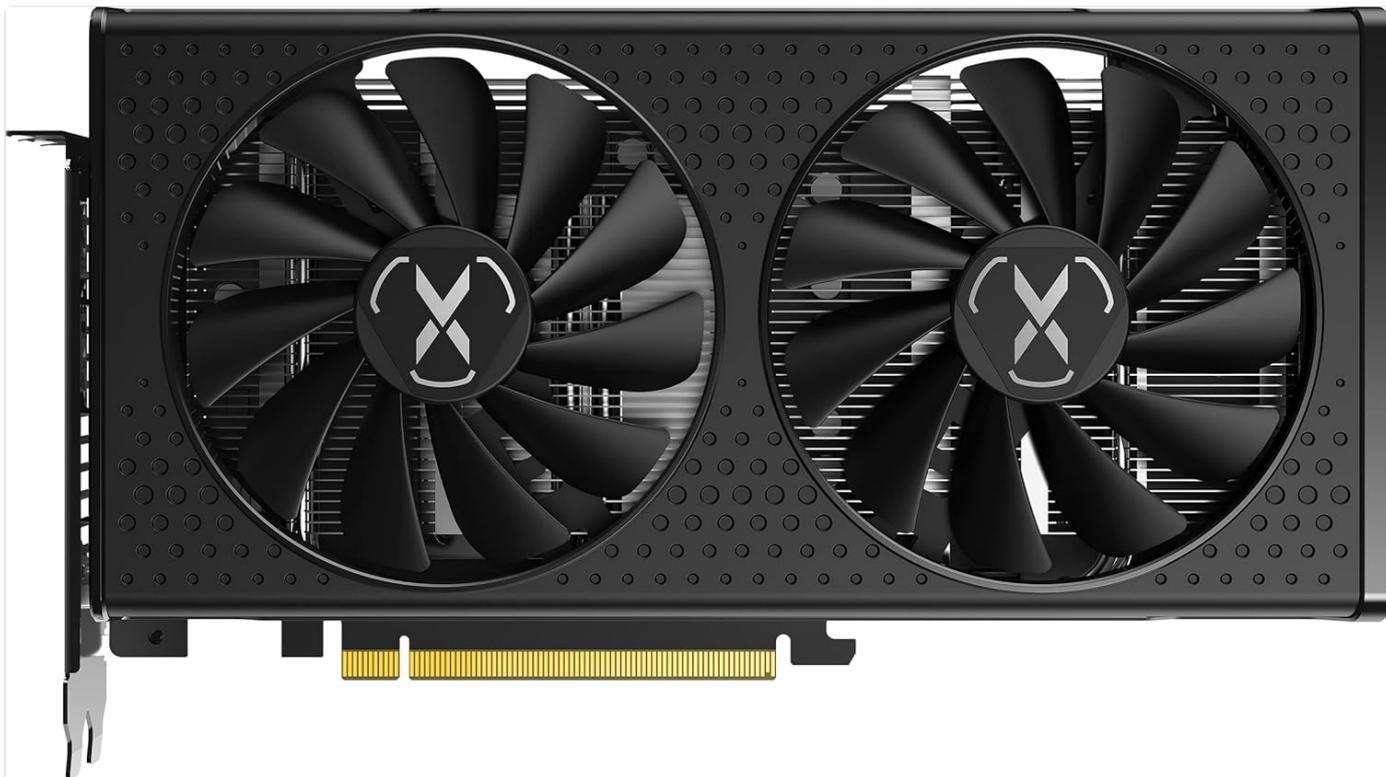


Figure 3: Top-down view of the graphics card, revealing the heatsink fins and fan placement.

MAINTENANCE

Cleaning

Regular cleaning helps maintain optimal cooling performance. It is recommended to clean your graphics card every 6-12 months, or more frequently in dusty environments.

- **Power Off:** Always power off your computer and unplug it before cleaning.
- **Dust Removal:** Use compressed air to gently blow dust out of the heatsink fins and fan blades. Hold the fans in place to prevent them from spinning rapidly during cleaning, which can damage bearings.
- **Surface Cleaning:** Wipe the exterior surfaces of the card with a soft, lint-free cloth. Avoid using liquid cleaners directly on the card.

Driver Updates

Periodically check for updated drivers on the official AMD website. Driver updates often include performance improvements, bug fixes, and support for new games and technologies.

Environmental Considerations

Ensure your PC case has adequate airflow to prevent overheating. Maintain a moderate room temperature and avoid placing your computer in enclosed spaces that restrict ventilation.

TROUBLESHOOTING

No Display Output

- Verify that the monitor cable is securely connected to both the graphics card and the monitor.
- Ensure the graphics card is fully seated in the PCIe slot.
- Confirm that all necessary PCIe power connectors are properly attached to the graphics card.
- Test with a different display cable or monitor if possible.

Performance Issues / Low FPS

- Ensure you have the latest graphics drivers installed.
- Check in-game graphics settings; try lowering resolution or detail settings.
- Monitor GPU temperature using Radeon Software to ensure it's not overheating and throttling performance.
- Verify that your power supply unit (PSU) meets the recommended wattage for your system.

Excessive Fan Noise

- Check for dust buildup on the fans and heatsink; clean if necessary.
- Ensure proper airflow within your PC case.
- In Radeon Software, you can adjust fan curves to find a balance between cooling and noise levels.

SPECIFICATIONS

Feature	Detail
Chipset	AMD Radeon RX 6650 XT
Memory	8GB GDDR6
Cooling	XFX SWFT 210 Dual Fan
Boost Clock	Up To 2635 MHz
Max Screen Resolution	3840x2160
Memory Speed	17.5 Gbps
Card Description	XFX Speedster SWFT210 Radeon RX 6650 XT with 8GB GDDR6 memory, using AMD RDNA 2 architecture, boost clock up to 2635 MHz, and PCI Express 4.0 x16 bus type.
Item Model Number	RX-665X8DFDY
Item Weight	2.2 pounds
Product Dimensions (LxWxH)	9.49 x 5.16 x 0.04 inches
Video Output Interface	HDMI, DisplayPort (3xDP)

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official XFX website or contact their customer service. Keep your proof of purchase for warranty claims.

Online resources and FAQs are often available on the manufacturer's support pages, which can provide solutions to common issues and access to the latest drivers and software.

