

## XFX RX-67XTYTBDP

# XFX Speedster MERC319 AMD Radeon RX 6700 XT Graphics Card User Manual

Model: RX-67XTYTBDP

## 1. PRODUCT OVERVIEW

The XFX Speedster MERC319 AMD Radeon RX 6700 XT is a high-performance gaming graphics card designed for ultra-high frame rates and 1440p resolution gaming. It is powered by AMD RDNA 2 architecture, featuring 40 enhanced Compute Units, AMD Infinity Cache, and 12GB of dedicated GDDR6 memory.

Key features include:

- **Chipset:** AMD RX 6700 XT
- **Memory:** 12GB GDDR6
- **Boost Clock:** Up To 2622MHz
- **Cooling:** XFX Speedster MERC319 Triple Fan design



Image 1.1: XFX Speedster MERC319 AMD Radeon RX 6700 XT Graphics Card and retail packaging.





Image 1.2: Front view of the graphics card, showcasing the triple fan cooling system.

## 2. SETUP AND INSTALLATION

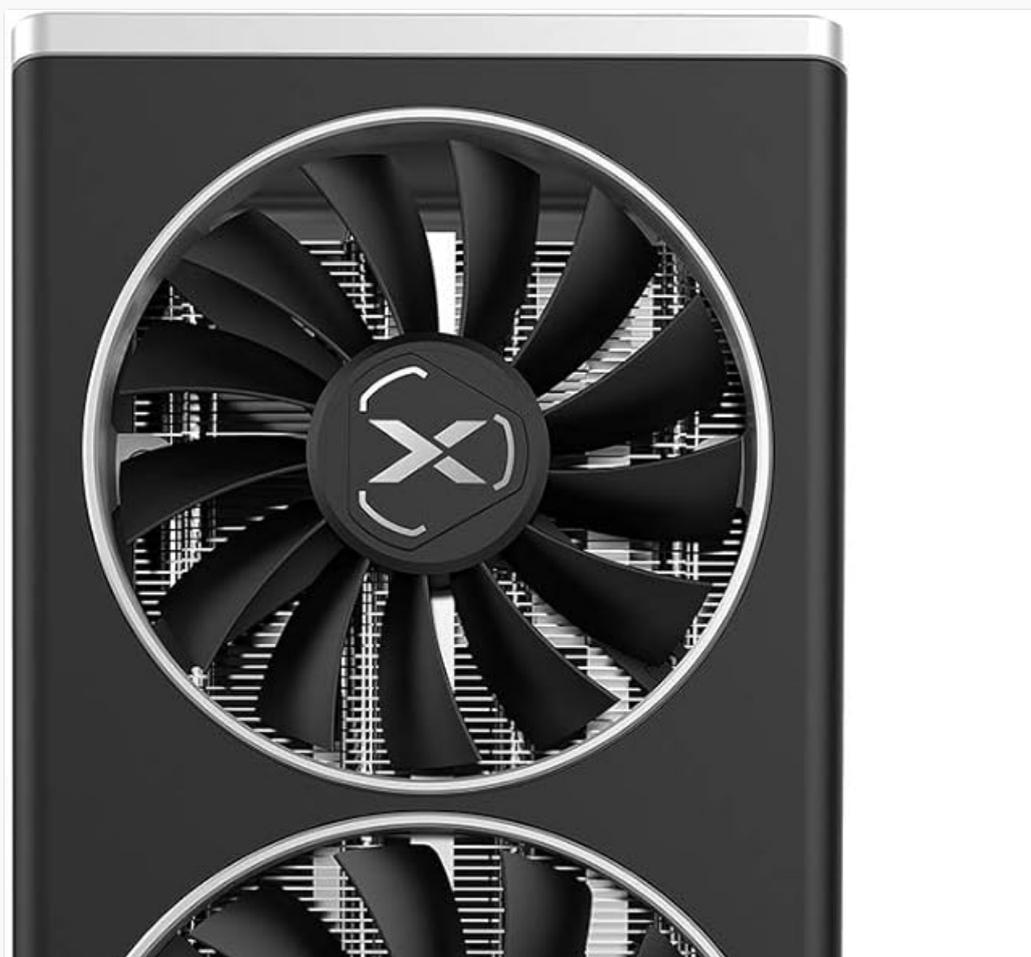
Before installing your new graphics card, ensure your system meets the necessary requirements, including adequate power supply wattage and available PCIe slots. Always power off and unplug your computer before handling internal components.

### 2.1 Pre-installation Checklist

- **Power Supply:** Verify your power supply unit (PSU) has sufficient wattage and the required 8-pin and 6-pin PCIe power connectors.
- **PCIe Slot:** Ensure you have an available PCIe x16 slot on your motherboard.
- **Case Clearance:** Confirm your computer case has enough physical space for the card's dimensions (approximately 12.72 x 5.2 x 2.01 inches).
- **Drivers:** Download the latest AMD Radeon drivers for the RX 6700 XT from the official AMD website before installation.

### 2.2 Installation Steps

1. **Power Down:** Shut down your computer completely and unplug the power cable from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case to access the motherboard.
3. **Remove Old GPU (if applicable):** If upgrading, carefully unclip and unscrew your old graphics card, then gently pull it out of the PCIe slot.
4. **Insert New GPU:** Align the XFX Speedster MERC319 graphics card with the PCIe x16 slot. Press down firmly and evenly until it is fully seated and the retention clip locks into place.
5. **Secure GPU:** Use screws to secure the graphics card to the case's expansion slot bracket.
6. **Connect Power:** Connect the required 8-pin and 6-pin PCIe power cables from your power supply to the corresponding ports on the graphics card.



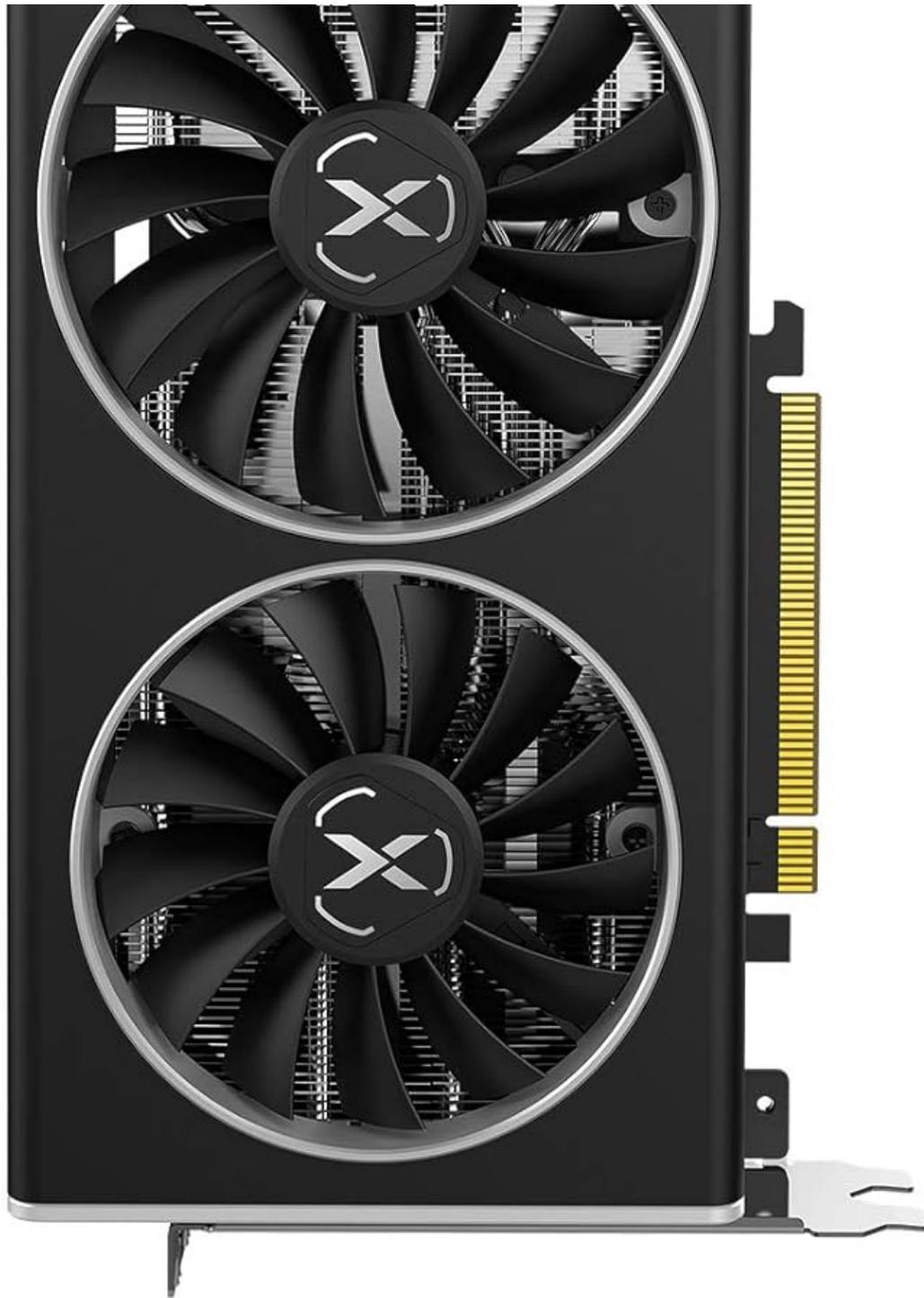


Image 2.1: Top view of the graphics card, highlighting the power input connectors.

7. **Close Case:** Replace the side panel of your computer case.
8. **Connect Display:** Connect your monitor to one of the display outputs (HDMI or DisplayPort) on the graphics card.
9. **Power On:** Plug the power cable back into the wall outlet and power on your computer.
10. **Install Drivers:** Once your operating system loads, install the AMD Radeon drivers you downloaded earlier. Follow the on-screen instructions.







Image 2.2: Backplate view of the graphics card, showing its robust construction and how it would appear when installed.

## 3. OPERATING INSTRUCTIONS

After successful installation and driver setup, your XFX Speedster MERC319 graphics card is ready for use. The AMD Radeon Software provides a comprehensive suite of tools for optimizing your gaming experience and managing your graphics card settings.

### 3.1 Driver Updates

Regularly update your graphics drivers to ensure optimal performance, stability, and access to the latest features. You can check for updates through the AMD Radeon Software application or by visiting the official AMD website.

### 3.2 AMD Radeon Software

This software allows you to:

- Adjust display settings and resolutions.
- Optimize game settings for performance or visual quality.
- Monitor GPU temperature, clock speeds, and usage.
- Access features like Radeon Anti-Lag, Radeon Boost, and FidelityFX.

### 3.3 Display Configuration

Ensure your monitor is connected to the graphics card and not the motherboard's integrated graphics ports. Use the display settings in your operating system or AMD Radeon Software to configure resolution, refresh rate, and multiple displays.

## 4. MAINTENANCE

Proper maintenance can extend the lifespan and ensure consistent performance of your graphics card.

### 4.1 Cleaning

Dust accumulation can impede cooling performance. Periodically clean your graphics card and PC case:

- Power off and unplug your computer.
- Use compressed air to gently blow dust from the fans, heatsink fins, and other components of the graphics card. Hold the fans to prevent over-spinning.
- Clean dust filters in your PC case.

### 4.2 Driver Management

Keep your graphics drivers updated. Outdated drivers can lead to performance issues or compatibility problems with new games and applications.

### 4.3 Temperature Monitoring

Utilize the AMD Radeon Software or third-party tools to monitor your GPU temperatures, especially during heavy loads. Maintain good airflow within your PC case to prevent overheating.

## 5. TROUBLESHOOTING

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

## 5.1 No Display Output

- **Check Connections:** Ensure the monitor cable is securely connected to the graphics card and the monitor.
- **Power Cables:** Verify that all PCIe power cables are correctly connected to the graphics card.
- **PCIe Seating:** Re-seat the graphics card in its PCIe slot to ensure it is fully inserted.
- **Monitor Input:** Confirm your monitor is set to the correct input source (HDMI, DisplayPort).

## 5.2 Driver Issues or Crashes

- **Reinstall Drivers:** Perform a clean installation of the latest AMD Radeon drivers. Use a driver uninstaller utility (like DDU) in Safe Mode to remove old drivers before installing new ones.
- **Operating System Updates:** Ensure your operating system is fully updated.
- **Software Conflicts:** Temporarily disable any overclocking software or monitoring tools to rule out conflicts.

## 5.3 Overheating

- **Improve Airflow:** Ensure your PC case has adequate airflow with properly configured intake and exhaust fans.
- **Clean Dust:** Clean the graphics card and case fans to remove dust buildup.
- **Monitor Temperatures:** Use AMD Radeon Software to monitor GPU temperatures. If temperatures consistently exceed safe operating limits, consider adjusting fan curves or improving case ventilation.

## 5.4 Performance Issues

- **Driver Updates:** Ensure you have the latest graphics drivers installed.
- **Game Settings:** Adjust in-game graphics settings to match your system's capabilities.
- **Background Applications:** Close unnecessary background applications that consume system resources.
- **Power Profile:** Ensure your operating system's power profile is set to 'High Performance'.

## 6. SPECIFICATIONS

Detailed technical specifications for the XFX Speedster MERC319 AMD Radeon RX 6700 XT graphics card.

Feature	Specification
Chipset	AMD Radeon RX 6700 XT
Graphics Coprocessor	AMD Radeon RX 6700 XT
Memory	12GB GDDR6
Memory Speed	16 GHz
Boost Clock	Up To 2622MHz
Cooling	XFx Speedster MERC319 Triple Fan
Max Screen Resolution	7680x4320
Video Output Interface	HDMI, DisplayPort (3xDP)

Feature	Specification
Item Model Number	RX-67XTYTBDP
Product Dimensions (LxWxH)	12.72 x 5.2 x 2.01 inches
Item Weight	4.01 pounds

## 7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official XFX website or the documentation included with your product. You can also visit the [XFX Store on Amazon](#) for additional product details and resources.