

msi RX 6700 XT GAMING X 12G

MSI Radeon RX 6700 XT Gaming X 12G Graphics Card User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your MSI Radeon RX 6700 XT Gaming X 12G graphics card. Please read this manual thoroughly before installation and retain it for future reference. This graphics card is designed to enhance your computer's visual performance for gaming and other demanding applications.

2. SAFETY INFORMATION

- Always disconnect the power supply from your computer before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity, which can damage electronic components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Keep the graphics card away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- MSI Radeon RX 6700 XT Gaming X 12G Graphics Card
- Quick Setup Guide



Image: The MSI Radeon RX 6700 XT Gaming X 12G graphics card shown alongside its retail box, illustrating the complete product package.

4. SYSTEM REQUIREMENTS

To ensure optimal performance and compatibility, your system should meet the following minimum requirements:

- **PCI Express-compliant motherboard:** With one X16 graphics slot.
- **Power Supply:** A minimum 650W power supply is recommended.
- **Operating System:** Windows 10 64-bit or newer.
- **System Memory:** 8GB RAM (16GB recommended).
- **Storage:** At least 100MB of available hard-disk space for driver installation.

5. SETUP

5.1. Physical Installation

1. **Prepare Your System:** Turn off your computer and disconnect the power cable. Open the computer case.
2. **Locate PCI Express Slot:** Find an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that may be blocking it.
3. **Install the Graphics Card:** Carefully align the graphics card with the PCI Express slot. Press down firmly and evenly until the card is securely seated in the slot. A click may be heard.
4. **Secure the Card:** Use a screw to fasten the graphics card's mounting bracket to the computer case.
5. **Connect Power Cables:** Connect the required PCI Express power connectors from your power supply to the graphics card. The MSI RX 6700 XT Gaming X 12G typically requires two 8-pin PCIe power connectors. Ensure they are fully seated.
6. **Close Case and Reconnect:** Close your computer case and reconnect all peripherals and the power cable.



Image: A direct front view of the MSI Radeon RX 6700 XT Gaming X 12G graphics card, showcasing its dual fan cooling system and shroud design.



Image: An angled perspective of the MSI Radeon RX 6700 XT Gaming X 12G graphics card, providing a view of its cooling solution and overall form factor.



Image: The back of the MSI Radeon RX 6700 XT Gaming X 12G graphics card, featuring a solid backplate with the MSI dragon emblem for structural support and aesthetics.

5.2. Driver Installation

1. **Power On:** Turn on your computer. Windows will likely install a generic display driver.
2. **Download Drivers:** Visit the official MSI website (www.msi.com) or AMD's official website (www.amd.com/drivers) to download the latest drivers for the Radeon RX 6700 XT.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. It is recommended to perform a clean installation.
4. **Restart:** Restart your computer after the driver installation is complete.

6. OPERATING

6.1. Connecting Displays

The MSI Radeon RX 6700 XT Gaming X 12G graphics card features multiple display outputs:

- **DisplayPort (x3):** For high-resolution and high-refresh-rate monitors.
- **HDMI (x1):** For connecting to TVs or monitors.

Connect your monitor(s) to the appropriate ports on the graphics card using compatible cables. The card supports multiple displays simultaneously.



Image: A close-up view of the I/O bracket of the MSI Radeon RX 6700 XT Gaming X 12G graphics card, clearly showing the three DisplayPort and one HDMI output connectors.

6.2. Software Configuration

After driver installation, you can access the AMD Radeon Software for advanced configuration:

- **Performance Tuning:** Adjust clock speeds, fan curves, and power limits.
- **Display Settings:** Configure resolution, refresh rate, FreeSync, and color settings.
- **Gaming Features:** Enable features like Radeon Anti-Lag, Radeon Image Sharpening, and FidelityFX for optimized gaming experiences.
- **RGB Lighting:** If applicable, use MSI Mystic Light software to customize the RGB lighting on your graphics card.

7. MAINTENANCE

- **Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check for and install the latest graphics drivers from MSI or AMD to ensure optimal performance and compatibility with new games and software.
- **Temperature Monitoring:** Use monitoring software to keep track of the graphics card's temperature during operation to prevent overheating.

8. TROUBLESHOOTING

- **No Display Output:** Ensure the monitor cable is securely connected to the graphics card and the

monitor. Verify that the graphics card is fully seated in the PCIe slot and power cables are connected.

- **Driver Issues:** If experiencing display artifacts or crashes, try reinstalling the graphics drivers using a clean installation option.
- **Overheating:** Check fan operation. Ensure adequate airflow in the computer case. Clean dust from the heatsink and fans.
- **Performance Problems:** Ensure your system meets the recommended requirements. Check for background applications consuming resources. Update drivers.
- **System Instability:** Verify power supply wattage meets the graphics card's requirements. Check for loose connections.

9. SPECIFICATIONS

Feature	Specification
Model	RX 6700 XT GAMING X 12G
Graphics Processor	AMD Radeon RX 6700 XT
Video Memory	12GB GDDR6
Memory Interface	192-bit
Boost Clock	2424 MHz
Max Screen Resolution	7680x4320
Output Ports	3x DisplayPort (v1.4), 1x HDMI
Dimensions (LxWxH)	11 x 2.3 x 5.2 inches
Item Weight	3.89 pounds

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official MSI website or contact MSI customer service. Keep your proof of purchase for warranty claims. Drivers and additional utilities can be found on the MSI support page for your specific model.

MSI Official Website: www.msi.com

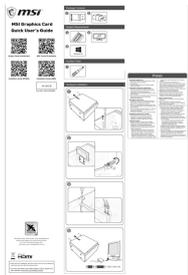
AMD Driver Support: www.amd.com/drivers

Related Documents - RX 6700 XT GAMING X 12G



[MSI Graphics Card Quick Start Guide](#)

A concise guide to installing and setting up your MSI Graphics Card, covering system requirements, hardware installation, and software setup with MSI Center and Afterburner.



[MSI Graphics Card Quick User's Guide - Installation and Setup](#)

Concise guide for installing and setting up your MSI Graphics Card, including system requirements, hardware installation steps, and software setup for drivers, MSI Dragon Center, and Afterburner.



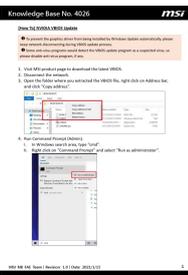
[MSI Graphics Card Quick Start Guide](#)

A concise guide to installing and setting up your MSI graphics card, covering hardware installation, software setup, and system requirements.



[MSI SUPRIM LIQUID Series: Comprehensive Installation Guide](#)

Detailed installation guide for the MSI SUPRIM LIQUID series of closed-loop liquid cooling graphics cards. Learn how to safely install your new GPU with step-by-step instructions and important safety precautions.



[MSI Knowledge Base: How to Update NVIDIA VBIOS](#)

A comprehensive guide from MSI detailing the process of updating your NVIDIA graphics card's VBIOS using the command prompt, including essential pre-update precautions and step-by-step instructions.



[MSI Graphics Card Quick User's Guide - Installation and Setup](#)

Comprehensive guide for installing and setting up MSI graphics cards, covering package contents, system requirements, hardware installation, and software setup.