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› MSI AMD Radeon RX 6600 XT Gaming X 8G Graphics Card User Manual

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INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI AMD Radeon RX 6600 XT Gaming X 8G Graphics Card. Please read this manual thoroughly before installation and retain it for future reference. This graphics card is designed for high-performance computing and gaming, featuring AMD RDNA 2 architecture, 8GB GDDR6 memory, and MSI's TRI FROZR 2 thermal system.

SAFETY INFORMATION

Observe the following safety guidelines to prevent damage to the graphics card or other components, and to ensure personal safety:

- 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 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.

PACKAGE CONTENTS

Verify that all items are present in your package:

- MSI AMD Radeon RX 6600 XT Gaming X 8G Graphics Card
- Quick Setup Guide

SETUP

1. Pre-installation Checks

1. **Power Supply:** Ensure your power supply unit (PSU) meets the minimum wattage requirement for the graphics card and has the necessary PCIe power connectors (typically one 8-pin connector for this model).

2. **Motherboard:** Confirm your motherboard has an available PCI Express x16 slot.
3. **Case Clearance:** Verify your computer case has sufficient space for the graphics card dimensions (approximately 9.7"L x 1.9"W).

2. Physical Installation

1. Power 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 if necessary.
4. Carefully align the graphics card with the PCIe slot and press it firmly until it is securely seated. A click may be heard as the retention clip engages.
5. Secure the graphics card to the case with screws.
6. Connect the required PCIe power cable(s) from your power supply to the graphics card. Ensure a firm connection.
7. Close your computer case.



Image: The MSI AMD Radeon RX 6600 XT Gaming X 8G Graphics Card shown with its retail packaging.



Image: Rear view of the graphics card showing three DisplayPort (v1.4) and one HDMI output.

3. Driver Installation

1. Reconnect the power cable and power on your computer.
2. Connect your display cable (HDMI or DisplayPort) to the graphics card.
3. Once your operating system loads, download the latest AMD Radeon drivers from the official AMD website (www.amd.com/support).
4. Follow the on-screen instructions to complete the driver installation. A system restart may be required.

OPERATING

Basic Operation

After successful driver installation, your graphics card is ready for use. Connect your monitor(s) to the available DisplayPort or HDMI outputs on the card. The card supports a maximum digital resolution of 7680 x 4320.

Software Installation and Features

For optimal performance and customization, install MSI Dragon Center and AMD Adrenalin Software.

- **MSI Dragon Center:** This utility allows you to monitor your GPU, tweak performance settings, and customize RGB lighting effects via Mystic Light.
- **AMD Adrenalin Software:** Provides access to advanced graphics settings, gaming profiles, and performance monitoring tools for your AMD Radeon GPU.

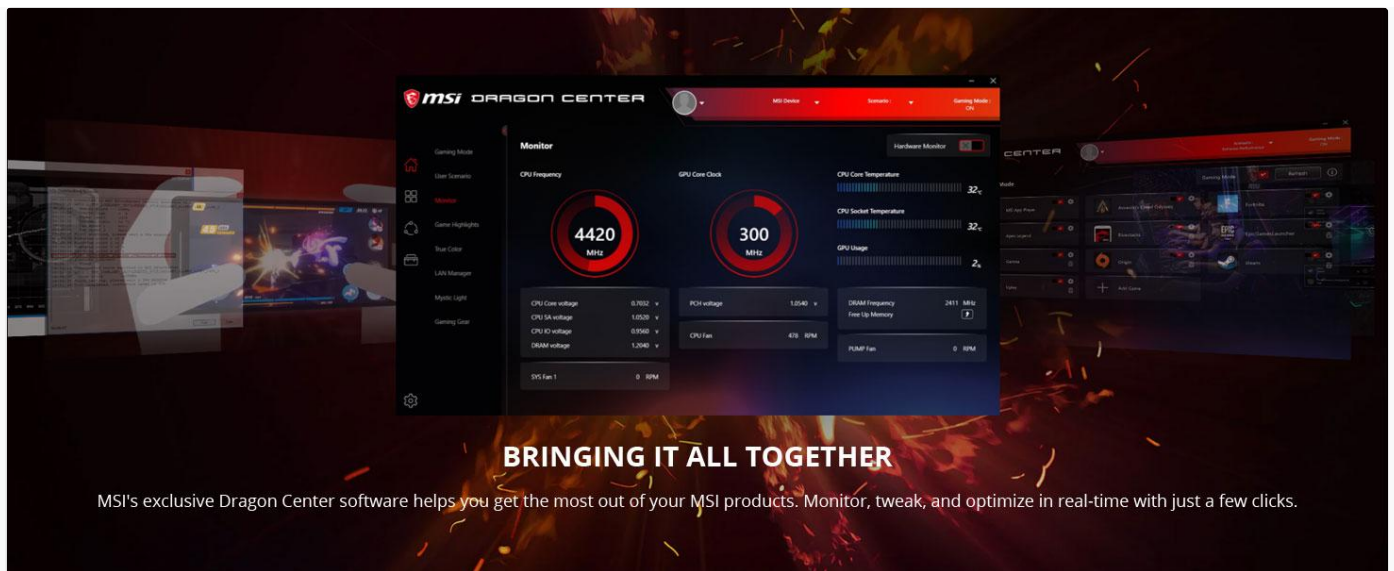


Image: Screenshot of the MSI Dragon Center software, showing monitoring and customization options.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your graphics card.

- **Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning. Hold the fan blades gently to prevent them from spinning rapidly during cleaning.
- **Driver Updates:** Keep your graphics drivers updated by regularly checking the official AMD website for the latest versions. Driver updates often include performance improvements and bug fixes.
- **Thermal Monitoring:** Use MSI Dragon Center or AMD Adrenalin Software to monitor GPU temperatures during heavy loads. Ensure temperatures remain within safe operating limits.

TROUBLESHOOTING

If you encounter issues with your graphics card, refer to the following common troubleshooting steps:

- **No Display Output:**
 - Ensure the monitor cable is securely connected to both the graphics card and the monitor.
 - Verify the graphics card is fully seated in the PCIe slot and all power connectors are attached.
 - Test with a different display cable or monitor if possible.
- **Driver Issues:**
 - Perform a clean installation of the latest graphics drivers. Use a tool like Display Driver Uninstaller (DDU) in Safe Mode to remove old drivers before installing new ones.
 - If issues persist after updating, try rolling back to a previous stable driver version.
- **Overheating:**
 - Ensure adequate airflow within your computer case. Clean any dust buildup from the graphics card fans and heatsink.
 - Check fan operation. If fans are not spinning under load, verify power connections and software settings.
- **System Instability/Crashes:**

- Ensure your power supply unit (PSU) is sufficient for your system's total power draw.
- Check for conflicts with other hardware or software.
- Run diagnostic tools to check for memory or CPU issues.

SPECIFICATIONS

Feature	Specification
Model Name	RX 6600 XT Gaming X 8G
Graphics Processing Unit	AMD Radeon RX 6600 XT
Interface	PCI Express
Video Memory	8GB GDDR6
Memory Interface	128-bit
Memory Speed	16 Gbps
Boost Clock	1845 MHz (Base, actual boost clock varies)
Digital Max Resolution	7680 x 4320
Outputs	3x DisplayPort (v1.4), 1x HDMI
Item Dimensions (L x W)	9.7"L x 1.9"W
Item Weight	886 Grams
Number of Fans	2 (TORX FAN 4.0)

WARRANTY INFORMATION

The MSI AMD Radeon RX 6600 XT Gaming X 8G Graphics Card comes with **a3-year warranty**. For detailed terms and conditions, please refer to the warranty card included with your product or visit the official MSI website.

SUPPORT

For further assistance, technical support, or driver downloads, please visit the official MSI support website:

www.msi.com/support

You can also find FAQs and community forums on the MSI website.

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