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MSI RTX 2080 Super Ventus XS OC

MSI GeForce RTX 2080 Super Ventus XS OC Graphics Card User Manual

Model: RTX 2080 Super Ventus XS OC | Brand: MSI

1. Introduction

Welcome to the user manual for your MSI GeForce RTX 2080 Super Ventus XS OC graphics card. This guide provides essential information for the proper installation, operation, and maintenance of your new GPU. Designed with NVIDIA's Turing Architecture, this card delivers powerful performance for gaming and creative applications.



Figure 1: MSI GeForce RTX 2080 Super Ventus XS OC Graphics Card

2. Safety Information

Please read and follow these safety guidelines to prevent damage to your graphics card or personal injury:

- 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 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.

3. Package Contents

Verify that your package contains the following items:

- MSI GeForce RTX 2080 Super Ventus XS OC Graphics Card
- Quick Start Guide / User Manual (this document)
- Driver CD (or instructions for online download)
- Additional accessories (may vary by region/retailer)

4. Specifications

Feature	Description
Chipset	NVIDIA GeForce RTX 2080 Super
Boost Clock	1830 MHz
Video Memory	8GB GDDR6
Memory Interface	256-bit
Output Ports	DisplayPort x 3 (V1.4), HDMI 2.0B x 1
Graphics Coprocessor	NVIDIA GeForce RTX 2080
Manufacturer	MSI COMPUTER
Product Dimensions	10.1 x 2 x 5 inches
Item Weight	12 ounces

5. Setup and Installation

5.1. Preparing Your System

1. **Power Off:** Shut down your computer completely and disconnect the power cable from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case to access the motherboard.
3. **Static Discharge:** Touch a grounded metal object (like the unpainted metal of your computer case) to discharge any static electricity from your body.

5.2. Installing the Graphics Card

Carefully insert the graphics card into an available PCI Express x16 slot on your motherboard. Ensure it is seated firmly and securely. This card features a dual-fan design for efficient cooling.



Figure 2: Front view of the MSI GeForce RTX 2080 Super, showing the dual Torx fans.



Figure 3: Backplate of the MSI GeForce RTX 2080 Super, providing structural rigidity and heat dissipation.



Figure 4: Side view of the MSI GeForce RTX 2080 Super, highlighting the heatsink fins and power connectors.

The physical size of the graphics card is important for case compatibility. This model is approximately 10.1 x 2 x 5 inches. Ensure your PC case has adequate clearance for installation.

Your browser does not support the video tag.

Video 1: A seller's review of the Nvidia 2080 Super GeForce, discussing its performance and physical size within a PC case. This video highlights the card's capabilities and its fit in a typical system.

5.3. Connecting Power

Connect the necessary PCIe power cables from your power supply unit (PSU) to the graphics card. The RTX 2080 Super typically requires 8-pin and 6-pin PCIe power connectors. Refer to your PSU manual for correct cable identification.

5.4. Connecting Display Cables

Connect your monitor(s) to the appropriate output ports on the graphics card. This model features three DisplayPort 1.4 outputs and one HDMI 2.0B output.

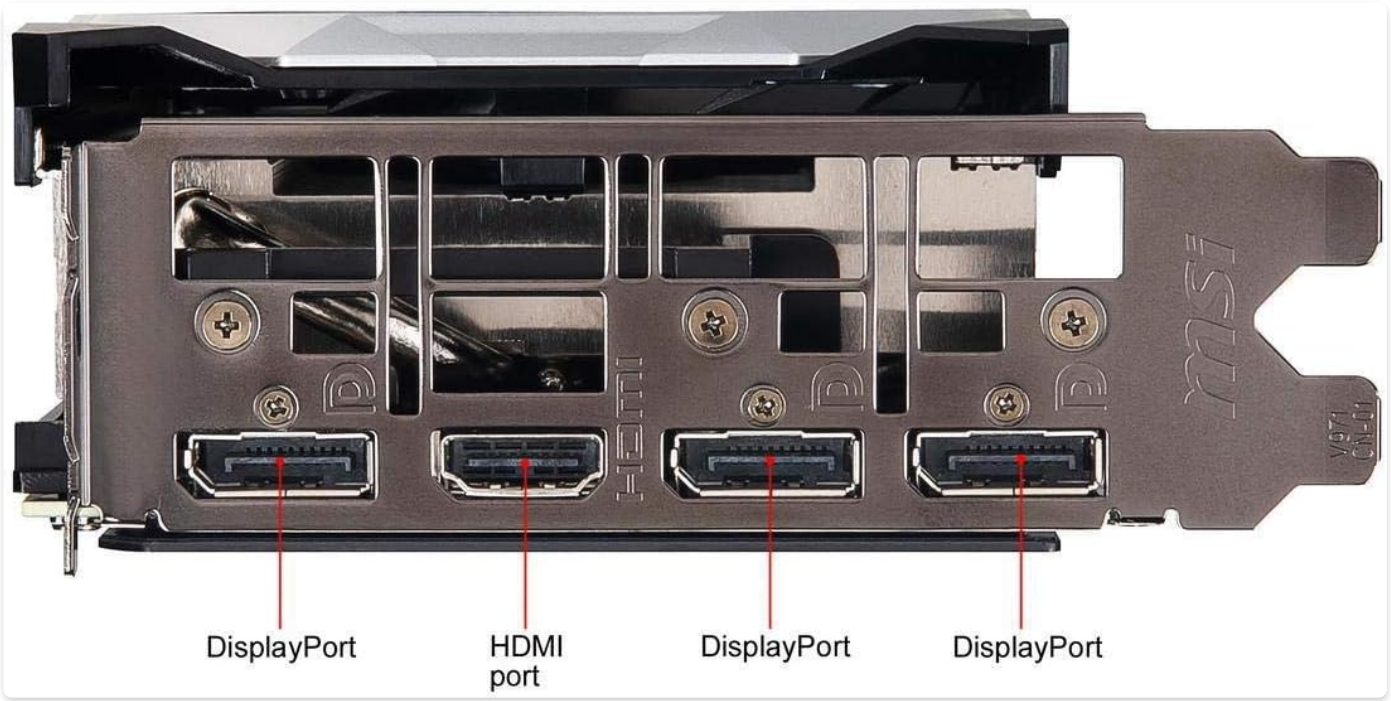


Figure 5: Input/Output ports of the MSI GeForce RTX 2080 Super, clearly showing the DisplayPort and HDMI connections.

5.5. Driver Installation

After physical installation, close your computer case and reconnect the power cable. Boot your system. Windows should detect new hardware. Download the latest drivers from the official NVIDIA or MSI website for optimal performance and stability. Install the drivers following the on-screen instructions.

6. Operating Your Graphics Card

6.1. First Boot

Upon the first boot after installation, your operating system may automatically install basic display drivers. For full functionality and performance, ensure you install the latest NVIDIA drivers as described in Section 5.5.

6.2. Software and Utilities

MSI provides various software utilities to enhance your graphics card experience, such as MSI Afterburner for monitoring, overclocking, and fan control. NVIDIA's GeForce Experience also offers game optimization, driver updates, and recording features. These tools can be downloaded from the respective official websites.

7. Maintenance

7.1. Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your graphics card. Use compressed air to gently remove dust from the fans and heatsink fins. Ensure the computer is powered off and unplugged before cleaning. Avoid using liquid cleaners directly on components.

7.2. Driver Updates

Periodically check for and install the latest graphics drivers from NVIDIA's official website. Driver updates often include performance improvements, bug fixes, and compatibility enhancements for new games and applications.

8. Troubleshooting

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

- **No Display:** Ensure all power cables (PSU to GPU, monitor to GPU) are securely connected. Try a different display cable or monitor.
- **Performance Issues:** Verify that the latest drivers are installed. Check for overheating using monitoring software. Ensure your power supply meets the recommended wattage.
- **System Instability/Crashes:** Update drivers. Check for conflicts with other hardware or software. Ensure the card is properly seated in the PCIe slot.
- **Fan Noise:** Check for dust buildup on the fans and heatsink. Use MSI Afterburner to adjust fan curves if necessary.

For persistent issues, consult the MSI support website or contact their customer service for further assistance.

9. Warranty and Support

Your MSI GeForce RTX 2080 Super Ventus XS OC graphics card comes with a manufacturer's warranty. Please refer to the warranty information provided with your product or visit the official MSI website for details regarding warranty terms, registration, and support options. For technical assistance, driver downloads, and FAQs, visit the MSI support page or NVIDIA's official website.

MSI Support: www.msi.com/support

NVIDIA Support: www.nvidia.com/support

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