

MSI RTX 2080 TI VENTUS 11G OC

MSI GeForce RTX 2080 Ti VENTUS 11G OC Graphics Card User Manual

1. INTRODUCTION

This user manual provides detailed instructions for the installation, configuration, and maintenance of your MSI GeForce RTX 2080 Ti VENTUS 11G OC graphics card. This high-performance graphics card is designed with NVIDIA Turing Architecture, featuring real-time ray tracing, artificial intelligence, and programmable shading for advanced visual experiences. Please read this manual thoroughly before proceeding with installation and operation to ensure proper functionality and longevity of your product.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your product package:

- MSI GeForce RTX 2080 Ti VENTUS 11G OC Graphics Card
- Necessary cables and connectors
- Quick setup guide

3. PRODUCT OVERVIEW

Familiarize yourself with the components and design of your graphics card.



Figure 3.1: The MSI GeForce RTX 2080 Ti VENTUS 11G OC graphics card shown alongside its retail packaging. The box highlights the 'VENTUS' series and 'GeForce RTX' branding.



Figure 3.2: A direct front view of the graphics card, showcasing its dual-fan cooling system with MSI branding on the fan hubs and a silver and black shroud design.



Figure 3.3: An angled perspective of the graphics card, highlighting the thickness of the heatsink and the design of the fan blades. The PCIe connector is visible at the bottom.



Figure 3.4: A different angled view, showing the top edge of the card with 'GeForce RTX' branding and the power connectors. The robust cooling solution is clearly visible.



Figure 3.5: A close-up of the rear input/output panel, featuring multiple DisplayPort, HDMI, and USB Type-C connectors for display output.

4. SETUP AND INSTALLATION

Follow these steps to properly install your graphics card into your computer system.

1. **Preparation:** Power off your computer and disconnect all cables. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
3. **Install Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip locks into place.
4. **Secure Card:** Fasten the graphics card to the computer case with screws.
5. **Connect Power:** Connect the necessary PCIe power cables from your power supply to the graphics card. Refer to your power supply and graphics card specifications for correct connections.
6. **Close Case:** Close your computer case and reconnect all cables.
7. **Driver Installation:** Power on your computer. Once the operating system loads, install the latest graphics drivers from the official MSI or NVIDIA website.

5. OPERATING THE GRAPHICS CARD

After successful installation, ensure optimal performance by following these guidelines:

- **Driver Updates:** Regularly update your graphics drivers to the latest version available from NVIDIA's official website to ensure compatibility and performance improvements.
- **Software Utilities:** Utilize MSI Afterburner for monitoring card performance, adjusting fan curves, and light overclocking if desired. NVIDIA GeForce Experience can optimize game settings and provide additional features.
- **Display Connection:** Connect your display(s) to the DisplayPort, HDMI, or USB Type-C outputs on the graphics card.
- **System Requirements:** Ensure your system meets the recommended specifications for the applications and games you intend to run to achieve the best experience.

6. MAINTENANCE

Proper maintenance helps extend the lifespan and maintain the performance of your graphics card.

- **Dust Removal:** Periodically clean dust from the heatsink fins and fan blades using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Fan Check:** Ensure the fans are spinning freely and quietly. Unusual noises or lack of rotation may indicate a problem.
- **Temperature Monitoring:** Use software like MSI Afterburner to monitor GPU temperatures during operation. Maintain good airflow within your computer case to prevent overheating.

7. TROUBLESHOOTING

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

- **No Display Output:**
 - Ensure the display cable is securely connected to both the graphics card and the monitor.
 - Verify that the graphics card is fully seated in the PCIe slot and power cables are connected.
 - Test with a different display cable or monitor if possible.
- **Performance Issues/Crashes:**
 - Update to the latest graphics drivers.
 - Monitor GPU temperatures to ensure it's not overheating.
 - Check power supply wattage to ensure it meets the graphics card's requirements.
- **Fan Noise:**
 - Clean dust from the fans and heatsink.
 - Adjust fan curves using MSI Afterburner if noise is excessive at certain temperatures.

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

8. SPECIFICATIONS

Key technical specifications for the MSI GeForce RTX 2080 Ti VENTUS 11G OC graphics card:

Feature	Specification
Chipset	NVIDIA GeForce RTX 2080 Ti
Core Clocks	1635 MHz/1350 MHz
Video Memory	11GB GDDR6
Memory Interface	352-bit
Output Ports	DisplayPort x 3 (v1.4), HDMI 2.0b x 1, USB Type-C x 1

Feature	Specification
Max Screen Resolution	7680x4320
Memory Speed	14 GHz
Card Description	High-performance NVIDIA GeForce RTX 2080 Ti graphics card with 11 GB GDDR6 memory, featuring a 352-bit memory interface, core clocks of 1635 MHz/1350 MHz, and Ventus thermal solution. This model supports G-Sync Compatible Frame Synchronization Technology.
Item Model Number	GeForce RTX 2080 TI VENTUS 11G OC
Item Weight	2.44 pounds
Product Dimensions (LxWxH)	10.55 x 4.48 x 1.97 inches
Date First Available	September 27, 2018

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official MSI website. MSI provides customer support and resources for product registration, driver downloads, and technical assistance.

This product is typically eligible for a 30-day refund/replacement return policy from the date of purchase. Please check with your retailer for specific return terms.

MSI Official Website: www.msi.com

10. SAFETY INFORMATION

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Always handle electronic components with care. Ensure proper grounding to prevent electrostatic discharge (ESD) damage. Disconnect power before installing or removing the graphics card.