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> MSI GeForce GTX 1660 Ti VENTUS XS 6G OC Graphics Card User Manual

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## 1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your MSI GeForce GTX 1660 Ti VENTUS XS 6G OC graphics card. Please read these instructions carefully before installation and operation. Retain this manual for future reference.

### Safety Information

- Always disconnect power from your computer before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to prevent electrostatic discharge (ESD) damage to components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.

## 2. PACKAGE CONTENTS

Verify that all items are present in your product package:

- MSI GeForce GTX 1660 Ti VENTUS XS 6G OC Graphics Card
- Cables and Connectors (may vary by region/bundle)
- Quick Setup Guide

If any items are missing or damaged, contact your retailer or MSI customer support.

## 3. PRODUCT OVERVIEW

The MSI GeForce GTX 1660 Ti VENTUS XS 6G OC is a high-performance graphics card designed for gaming and demanding applications. It features a dual-fan cooling system for efficient heat dissipation and multiple display outputs.



**Figure 3.1:** Front view of the MSI GeForce GTX 1660 Ti VENTUS XS 6G OC graphics card, showcasing its dual-fan cooling design and MSI branding on the fan hubs.

## Display Output Ports

The graphics card provides several display output options for connecting to monitors and other display devices.



**Figure 3.2:** Rear view of the graphics card, illustrating the three DisplayPort (v1.4) outputs and one HDMI (2.0b) output for connecting to various display devices.

- **DisplayPort (DP):** Three (3) DisplayPort 1.4 connectors.
- **HDMI:** One (1) HDMI 2.0b connector.

## 4. SETUP GUIDE

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

## 4.1 Pre-Installation

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. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
4. **Remove Slot Covers:** Remove the metal slot covers from the back of your computer case corresponding to the PCIe slot you will use.

## 4.2 Hardware Installation

1. **Insert Card:** Carefully align the graphics card with the PCIe x16 slot. Press down firmly and evenly until the card is fully seated in the slot and the retention clip locks into place.
2. **Secure Card:** Secure the graphics card to the computer case with screws.
3. **Connect Power:** Connect the required PCIe power connector(s) from your power supply unit (PSU) to the graphics card. The MSI GeForce GTX 1660 Ti VENTUS XS 6G OC typically requires one 8-pin PCIe power connector. Ensure the connection is secure.
4. **Close Case:** Replace the side panel of your computer case.

## 4.3 Driver Installation

1. **Connect Display:** Connect your monitor to one of the graphics card's display output ports (DisplayPort or HDMI).
2. **Power On:** Reconnect the power cable to your computer and power it on.
3. **Download Drivers:** Navigate to the official NVIDIA website ([www.nvidia.com/drivers](http://www.nvidia.com/drivers)) or the MSI support website ([www.msi.com/support](http://www.msi.com/support)). Select your graphics card model (GeForce GTX 1660 Ti) and operating system to download the latest drivers.
4. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. A system restart may be required after installation.

## 5. OPERATING INSTRUCTIONS

Once installed and drivers are updated, your graphics card is ready for use. It will automatically handle graphics processing for your system.

### 5.1 Display Configuration

After driver installation, you can configure your display settings through your operating system's display settings or the NVIDIA Control Panel. This allows you to adjust resolution, refresh rate, and set up multiple monitors.

### 5.2 Power Requirements

Ensure your Power Supply Unit (PSU) meets the recommended wattage for stable operation. The recommended PSU for this graphics card is 450W.

## 6. MAINTENANCE

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

### 6.1 Cleaning

- **Dust Removal:** Periodically clean dust from the graphics card's fans and heatsink using compressed air. Ensure

the computer is powered off and unplugged before cleaning.

- **Fan Care:** Avoid obstructing the fans. Ensure they can spin freely.

## 6.2 Environmental Conditions

- **Temperature:** Operate the card within recommended temperature ranges. Good case airflow is crucial.
- **Humidity:** Avoid high humidity environments to prevent corrosion.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter.

### 7.1 No Display Output

- **Check Cables:** Ensure display cables are securely connected to both the graphics card and the monitor.
- **Power Connection:** Verify that the PCIe power connector(s) are properly seated on the graphics card.
- **Monitor Input:** Confirm your monitor is set to the correct input source (e.g., DisplayPort, HDMI).
- **Reseat Card:** Power off your PC, unplug it, and reseat the graphics card in its PCIe slot.

### 7.2 Driver Issues

- **Reinstall Drivers:** If you experience graphical glitches or crashes, try performing a clean reinstallation of the latest drivers from the NVIDIA website.
- **Windows Update:** Ensure your operating system is up to date.

### 7.3 Performance Problems

- **Temperature Monitoring:** Use software to monitor GPU temperatures. High temperatures can lead to performance throttling. Improve case airflow if needed.
- **Background Applications:** Close unnecessary background applications that consume system resources.
- **Game Settings:** Adjust in-game graphics settings to match your system's capabilities.

## 8. SPECIFICATIONS

Detailed technical specifications for the MSI GeForce GTX 1660 Ti VENTUS XS 6G OC graphics card:

| Feature          | Specification                           |
|------------------|-----------------------------------------|
| Chipset          | NVIDIA GeForce GTX 1660 Ti              |
| Boost Clock      | 1830 MHz                                |
| Core Clocks      | 1770 MHz                                |
| Video Memory     | 6GB GDDR6                               |
| Memory Interface | 192-bit                                 |
| Memory Speed     | 8000 MHz                                |
| Output Ports     | 3 x DisplayPort (v1.4), 1 x HDMI (2.0b) |

| Feature                    | Specification          |
|----------------------------|------------------------|
| Max Screen Resolution      | 7680x4320              |
| Recommended PSU            | 450 W                  |
| Power Consumption          | 120 W                  |
| Item Weight                | 1.47 pounds            |
| Product Dimensions (LxWxH) | 8.1 x 5.1 x 1.7 inches |

## 9. WARRANTY INFORMATION

MSI products are covered by a limited warranty. For detailed warranty terms, conditions, and registration procedures, please visit the official MSI website or contact your local MSI representative. Keep your proof of purchase for warranty claims.

## 10. SUPPORT

For further assistance, technical support, or driver downloads, please visit the official MSI support website:  
[MSI Official Support Website](#)  
You may also find helpful resources and community forums on the NVIDIA website.

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