

MSI GTX 1660 VENTUS XS 6G OC

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

Model: GTX 1660 VENTUS XS 6G OC

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the MSI GeForce GTX 1660 VENTUS XS 6G OC Gaming Graphics Card. This graphics card is designed to provide visual performance for computing tasks, including gaming. It features a 192-bit memory interface and 6GB of GDDR5 memory. The card supports DirectX 12 and is equipped with dual fans for thermal management.

Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. SAFETY GUIDELINES

- 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. Static electricity 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.
- Do not expose the graphics card to moisture or extreme temperatures.
- Keep the product away from children.

3. PACKAGE CONTENTS

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

- MSI GeForce GTX 1660 VENTUS XS 6G OC Graphics Card
- Driver Disk (may be included, or drivers can be downloaded online)
- Quick Start Guide
- Registration Card (if applicable)

- Accessory Box (may contain additional cables or adapters)



Image: Contents of the MSI GeForce GTX 1660 VENTUS XS 6G OC package, showing the graphics card, driver disk, quick start guide, registration card, and an accessory box.

4. SYSTEM REQUIREMENTS

Before installing the graphics card, ensure your system meets the following minimum requirements:

- **PCI Express Slot:** A PCI Express x16 slot on the motherboard.
- **Power Supply:** A power supply unit (PSU) with sufficient wattage and a 6-pin or 8-pin PCIe power connector, as required by the card. (Typically 450W or greater recommended).
- **Operating System:** Windows 10, Windows 7 (64-bit versions recommended).
- **Memory:** 8GB system RAM or more.
- **Storage:** At least 1.5GB of available hard-disk space for driver installation.
- **Display:** A monitor with DisplayPort or HDMI input.

5. HARDWARE INSTALLATION

1. Prepare Your System:

- Turn off your computer and disconnect the power cable from the wall outlet.
- Open your computer case.
- Discharge static electricity by touching a grounded metal object.

2. Remove Existing Graphics Card (if applicable):

- Unscrew any retaining screws holding the old graphics card in place.

- Carefully unclip the PCIe retention latch at the end of the slot.
- Gently pull the old graphics card straight out of the PCIe slot.

3. Install the MSI GeForce GTX 1660 VENTUS XS 6G OC:

- Locate an available PCI Express x16 slot on your motherboard.
- Remove the metal bracket cover(s) from the back of your computer case corresponding to the slot.
- Align the graphics card with the PCIe slot and press it down firmly until it is fully seated and the retention latch clicks into place.
- Secure the graphics card with screws to the computer case.



Image: Front view of the MSI GeForce GTX 1660 VENTUS XS 6G OC Graphics Card, showing the dual fans and heatsink assembly.

4. Connect Power Cables:

- Connect the required PCIe power connector(s) from your power supply to the corresponding port(s) on the graphics card. This model typically requires one 8-pin PCIe power connector.
- Ensure the connectors are securely attached.

5. Close Case and Reconnect Power:

- Close your computer case.
- Reconnect the power cable to the wall outlet and turn on your computer.

6. SOFTWARE INSTALLATION

1. Boot Your System:

- After hardware installation, boot your computer. The operating system may automatically detect the new hardware and install basic drivers.

2. Install Graphics Drivers:

- For optimal performance, download the latest drivers directly from the official MSI or NVIDIA website. Search for "MSI GeForce GTX 1660 VENTUS XS 6G OC drivers".
- Alternatively, if a driver disk was included, insert it into your optical drive and follow the on-screen instructions.
- Follow the prompts to complete the driver installation. A system restart may be required.

3. Install Utility Software (Optional):

- MSI offers utility software like MSI Afterburner for monitoring and fine-tuning your graphics card. This software can be downloaded from the MSI website.
- The product may also include a Quick User's Guide with a QR code for the MSI GameBot app.[MSI GameBot App](#)

7. CONNECTING DISPLAYS

The MSI GeForce GTX 1660 VENTUS XS 6G OC graphics card provides multiple display output options:

- **DisplayPort:** Connect up to three DisplayPort monitors.
- **HDMI:** Connect one HDMI monitor.

Connect your monitor(s) to the appropriate ports on the graphics card. Ensure your display cables are securely connected to both the graphics card and your monitor.



Image: Rear view of the MSI GeForce GTX 1660 VENTUS XS 6G OC Graphics Card, showing three DisplayPort outputs and one HDMI output.

8. OPERATION AND CONFIGURATION

Once drivers are installed, your graphics card should be operational. You can verify its status through your operating system's Device Manager.

- **Display Settings:** Adjust resolution, refresh rate, and multiple display configurations through your operating system's display settings or the NVIDIA Control Panel (installed with drivers).
- **Performance Monitoring:** Use MSI Afterburner or similar tools to monitor GPU temperature, clock speeds, and fan speeds. These tools can also be used for custom fan curves or overclocking, if desired.

9. MAINTENANCE

- **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. Hold the fan blades gently to prevent them from spinning rapidly during cleaning, which can damage the bearings.
- **Driver Updates:** Regularly check the official MSI or NVIDIA website for the latest graphics drivers. Keeping drivers updated can improve performance, stability, and compatibility with new software and games.



Image: Top-down view of the MSI GeForce GTX 1660 VENTUS XS 6G OC Graphics Card, highlighting the dual fan design for effective cooling.

10. TROUBLESHOOTING

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

- **No Display Output:**

- Ensure the monitor is connected to the graphics card, not the motherboard's integrated graphics port.
- Verify all power cables (including the PCIe power connector to the graphics card) are securely connected.
- Reseat the graphics card in its PCIe slot.
- Test with a different display cable or monitor if possible.

- **Driver Issues / System Instability:**

- Perform a clean installation of the latest graphics drivers. Use a driver uninstaller utility (like DDU) to remove old drivers before installing new ones.
- Check for conflicts with other installed software.

- **Overheating:**

- Ensure proper airflow within your computer case.
- Clean dust from the graphics card's heatsink and fans.
- Verify that the fans are spinning correctly.
- Monitor temperatures using utility software.

- **Second Display Not Working:**

- Check display settings in your operating system or NVIDIA Control Panel to ensure the second display is detected and enabled.
- Try different display ports on the graphics card.

- Ensure the cable is functional and correctly connected.

11. SPECIFICATIONS

Feature	Specification
Chipset	NVIDIA GeForce GTX 1660
Boost Clock	1830 MHz
Memory Interface	192 bit
Video Memory	6GB GDDR5
Output Ports	DisplayPort x 3 (v1.4), HDMI 2.0b x 1
HDCP Support	Yes
DirectX Support	DirectX 12
Cooling	Dual Fan (VENTUS XS)
Dimensions	8.1 x 5.1 x 1.7 inches
Item Weight	12 ounces

12. WARRANTY AND SUPPORT

This product is listed as a "Renewed" item. Warranty terms for renewed products may differ from new products. Please refer to the specific warranty information provided by your retailer or the renewed product supplier at the time of purchase.

For technical support, driver downloads, and further product information, please visit the official MSI website. You may also register your product via the MSI GameBot App for additional support resources.

MSI Support Website: www.msi.com

MSI GameBot App: <https://www.msi.com/redirect/app/GameBot>

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question