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› MSI Gaming GeForce GTX 1660 Super Graphics Card User Manual

## MSI GTX 1660 Super Gaming X

# MSI Gaming GeForce GTX 1660 Super Graphics Card User Manual

Model: GTX 1660 Super Gaming X

Brand: MSI

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your MSI Gaming GeForce GTX 1660 Super graphics card. Please read this manual thoroughly before installation and retain it for future reference.

## 2. SAFETY INFORMATION

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- 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 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 attempt to repair the graphics card yourself. Refer to qualified service personnel.

## 3. PACKAGE CONTENTS

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Verify that your package contains the following items:

- MSI Gaming GeForce GTX 1660 Super Graphics Card
- Quick Start Guide (may vary by region)
- Driver/Utility CD (drivers are typically downloaded from the official MSI website for the latest version)



Image 3.1: MSI Gaming GeForce GTX 1660 Super Graphics Card and its retail packaging.

## 4. SETUP

### 4.1 System Requirements

- **PCI Express-compliant motherboard:** With one dual-width x16 graphics slot.
- **Power Supply:** Minimum 450W or greater system power supply with one 8-pin PCIe power connector.
- **Operating System:** Microsoft Windows 10 (64-bit), Windows 7 (64-bit).
- **Memory:** 4GB system memory (8GB recommended).
- **Internet Connection:** For driver downloads and software updates.

### 4.2 Hardware Installation

1. **Prepare your computer:** Turn off your computer and disconnect the power cable. Open the computer case.
2. **Locate the PCIe slot:** Find an available PCI Express x16 slot on your motherboard.
3. **Remove slot covers:** Remove the metal slot covers from the back of your computer case corresponding to the PCIe slot.
4. **Insert the graphics card:** Carefully align the graphics card with the PCIe slot and press it firmly until it is

securely seated. Ensure the retention clip on the PCIe slot locks into place.

5. **Secure the card:** Fasten the graphics card to the computer case using screws.
6. **Connect power:** Connect the 8-pin PCIe power connector from your power supply to the graphics card.



Image 4.1: Angled view of the graphics card, highlighting its dual fan design and RGB elements.



Image 4.2: Rear view of the graphics card, displaying the DisplayPort and HDMI output connectors.

### 4.3 Driver Installation

1. **Power on:** Close your computer case, reconnect the power cable, and turn on your computer.
2. **Initial boot:** Your operating system may install a generic display driver.
3. **Download drivers:** Visit the official MSI website ([www.msi.com](http://www.msi.com)) and navigate to the support section for your specific graphics card model (GTX 1660 Super Gaming X). Download the latest graphics drivers.
4. **Install drivers:** Run the downloaded driver installer and follow the on-screen instructions. Restart your computer when prompted.

## 5. OPERATING

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### 5.1 Connecting Displays

Connect your display(s) to the available output ports on the graphics card (DisplayPort or HDMI). The card supports up to 3 DisplayPort (v1.4) and 1 HDMI (2.0b) outputs.

### 5.2 Software Utilities

- **MSI Afterburner:** A widely recognized utility for graphics card overclocking, monitoring, and fan control. Download from the MSI website.
- **MSI Dragon Center:** Provides system monitoring, performance optimization, and RGB lighting control for compatible MSI components, including your graphics card. Download from the MSI website.



Image 5.1: Top-down view of the graphics card, showcasing its dual fan cooling system.

## 6. MAINTENANCE

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### 6.1 Cleaning

- Regularly clean dust from the graphics card 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.

### 6.2 Driver Updates

Periodically check the MSI website for updated graphics drivers. Keeping your drivers current ensures optimal performance, stability, and compatibility with new games and applications.

## 7. TROUBLESHOOTING

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- **No Display Output:**
  - Ensure the monitor cable is securely connected to both the graphics card and the display.
  - Verify the graphics card is fully seated in the PCIe slot.
  - Confirm the PCIe power connector is properly attached to the graphics card.
  - Test with a different display cable or monitor if possible.
- **Driver Installation Issues:**
  - Download the latest drivers directly from the official MSI website.
  - Use Display Driver Uninstaller (DDU) in Windows Safe Mode to remove old drivers before installing new ones.
- **Performance Issues/Crashes:**
  - Ensure your system meets the minimum requirements for the applications you are running.
  - Monitor GPU temperatures using MSI Afterburner to check for overheating.
  - Verify your power supply unit (PSU) provides sufficient wattage and stable power.
  - Update your motherboard BIOS and chipset drivers.

## 8. SPECIFICATIONS

Feature	Specification
Model Name	GTX 1660 Super Gaming X (G166SGX)
Graphics Processing Unit	NVIDIA GeForce GTX 1660 Super
Interface	PCI Express x16
Boost Clock	1830 MHz
Memory	6GB GDDR6
Memory Interface	192-bit
Max Resolution	7680x4320 MP
Output Ports	3x DisplayPort (v1.4), 1x HDMI (2.0b)
Dimensions (LxWxH)	9.7 x 1.8 x 5 inches
Weight	1.9 pounds
Recommended PSU	450W

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

MSI products are covered by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official MSI website's warranty section. Keep your proof of purchase for warranty claims.

## 9.2 Technical Support

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

- **MSI Official Website:** [www.msi.com](http://www.msi.com)
- **Product Support Page:** Navigate to the 'Support' section and search for your specific graphics card model.