

msi GTX 1650 Super 128-Bit HDMI

MSI GeForce GTX 1650 Super Gaming X Graphics Card User Manual

Model: GTX 1650 Super 128-Bit HDMI

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your MSI GeForce GTX 1650 Super Gaming X graphics card. This graphics card features NVIDIA GeForce GTX 1650 Super chipset, 4GB GDDR6 memory, and a dual-fan thermal design for efficient cooling. It is designed to deliver reliable performance for various computing tasks.



Figure 1: Front view of the MSI GeForce GTX 1650 Super Gaming X graphics card, showcasing its dual-fan cooling system.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your product package. If any items are missing or damaged, please contact your retailer.

- MSI GeForce GTX 1650 Super Gaming X Graphics Card
- Cables and Connectors (as applicable for your region/model)
- Quick Setup Guide

3. SETUP AND INSTALLATION

Follow these steps to properly install your graphics card into your computer system. Ensure your computer is powered off and unplugged before beginning installation.

1. **Prepare Your System:** Power off your computer and disconnect the power cable from the wall outlet. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that may be blocking the slot.
3. **Install Graphics Card:** Carefully align the graphics card with the PCIe x16 slot. Press down firmly until the card is securely seated. Secure the card with the screw or latch mechanism of your computer case.
4. **Connect Power:** Connect the required PCIe power connector(s) from your power supply unit (PSU) to the

graphics card. The MSI GeForce GTX 1650 Super Gaming X typically requires a 6-pin or 8-pin PCIe power connector. Refer to your PSU manual for connector identification.

5. **Close Case and Connect Display:** Close your computer case. Connect your display monitor to one of the available output ports on the graphics card (DisplayPort or HDMI).
6. **Power On and Install Drivers:** Reconnect the power cable and power on your computer. Once the operating system loads, install the latest graphics drivers from the official NVIDIA or MSI website.



Figure 2: Rear view of the graphics card showing DisplayPort and HDMI output connectors.

4. OPERATING INSTRUCTIONS

After successful installation and driver setup, your graphics card is ready for use.

- **Display Connection:** Connect your monitor(s) to the DisplayPort or HDMI outputs on the graphics card. The card supports multiple displays.
- **Driver Updates:** Regularly check for and install the latest NVIDIA drivers to ensure optimal performance and compatibility with new applications and games. Drivers can be downloaded from the official NVIDIA website.
- **MSI Afterburner:** For advanced users, MSI Afterburner software can be used to monitor card performance, adjust fan curves, and perform safe overclocking. This software is available on the MSI website.
- **Silent Operation:** The card's advanced thermal design allows fans to remain off during low-load scenarios, providing silent operation. Fans will activate automatically when temperatures rise under heavier workloads.

5. MAINTENANCE

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

- **Dust Removal:** Periodically inspect the graphics card for dust accumulation on the fans and heatsink. Use compressed air to gently remove dust. Ensure the computer is powered off and unplugged before cleaning.
- **Airflow:** Ensure your computer case has adequate airflow to prevent heat buildup. Keep the area around your computer clear of obstructions.
- **Software Updates:** Keep your operating system and graphics drivers updated.

6. TROUBLESHOOTING

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

- **No Display Output:**
 - Ensure the monitor 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 that all power connectors are attached.

- Test with a different display cable or monitor if possible.
- Ensure your monitor is set to the correct input source.
- **Driver Issues:**
 - Uninstall existing graphics drivers using a utility like Display Driver Uninstaller (DDU) in Safe Mode.
 - Download and install the latest drivers directly from the NVIDIA website.
- **Overheating:**
 - Ensure proper airflow within your computer case.
 - Clean any dust from the graphics card fans and heatsink.
 - Monitor temperatures using software like MSI Afterburner.
- **System Instability/Crashes:**
 - Ensure your power supply unit (PSU) meets the minimum wattage requirements for your system, including the graphics card.
 - Check for conflicting software or outdated drivers.
 - If overclocking, revert to default settings to rule out instability.

7. SPECIFICATIONS

Key technical specifications for the MSI GeForce GTX 1650 Super Gaming X graphics card.

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce GTX 1650 Super
Brand	MSI
Video Memory	4 GB GDDR6
Memory Interface	128-bit
Boost Clock	1755 MHz
Video Output Interface	HDMI, DisplayPort (3x DisplayPort v1.4, 1x HDMI 2.0b)
Graphics Card Interface	PCI-Express x16
Maximum Display Resolution	7680x4320
Number of Fans	2
Item Dimensions (L x W)	9.8"L x 1.7"W
Model Name	GTX 1650 Super 128-Bit HDMI
UPC	824142201817

8. WARRANTY AND SUPPORT

This MSI graphics card comes with a **3-year warranty**. For warranty claims or technical support, please visit the official MSI website or contact your local retailer.

MSI Official Website: www.msi.com

