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MSI V809-2277R

MSI GeForce GTX 1050 Ti 4GT OC Graphics Card User Manual

MODEL: V809-2277R



Image: The MSI GeForce GTX 1050 Ti 4GT OC graphics card displayed alongside its retail packaging, highlighting the product's design and branding.

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your MSI GeForce GTX 1050 Ti 4GT OC graphics card. Please read this manual thoroughly before installation.

and retain it for future reference.

2. PACKAGE CONTENTS

2.1 What's in the Box

- MSI GeForce GTX 1050 Ti 4GT OC Graphics Card
- Graphics card cables and connectors (if applicable)
- Quick setup guide

3. SYSTEM REQUIREMENTS

- PCI-Express compliant motherboard with one x16 graphics slot
- Minimum 300W system power supply (PSU)
- Minimum 4GB system memory (8GB recommended)
- Microsoft Windows 10, Windows 8.1, Windows 8, Windows 7 (32-bit or 64-bit)
- Internet connection for driver download and updates

4. INSTALLATION

4.1 Hardware Installation

4.1.1 Preparing Your System

1. Turn off your computer and disconnect the power cable from the wall outlet.
2. Open your computer case. Refer to your computer's manual for specific instructions.
3. If you are replacing an existing graphics card, carefully remove it.

4.1.2 Installing the Graphics Card

1. Locate an available PCI Express x16 slot on your motherboard.
2. Remove the metal bracket cover(s) for the slot(s) where the graphics card will be installed.
3. Align the graphics card with the PCI Express x16 slot and press it firmly until it is securely seated. A click indicates proper seating.
4. Secure the graphics card to the computer case with the screw(s) removed earlier.



Image: A top-down view of the MSI GeForce GTX 1050 Ti 4GT OC graphics card, showing its dual-fan cooling system and overall compact design, useful for understanding its physical dimensions during installation.

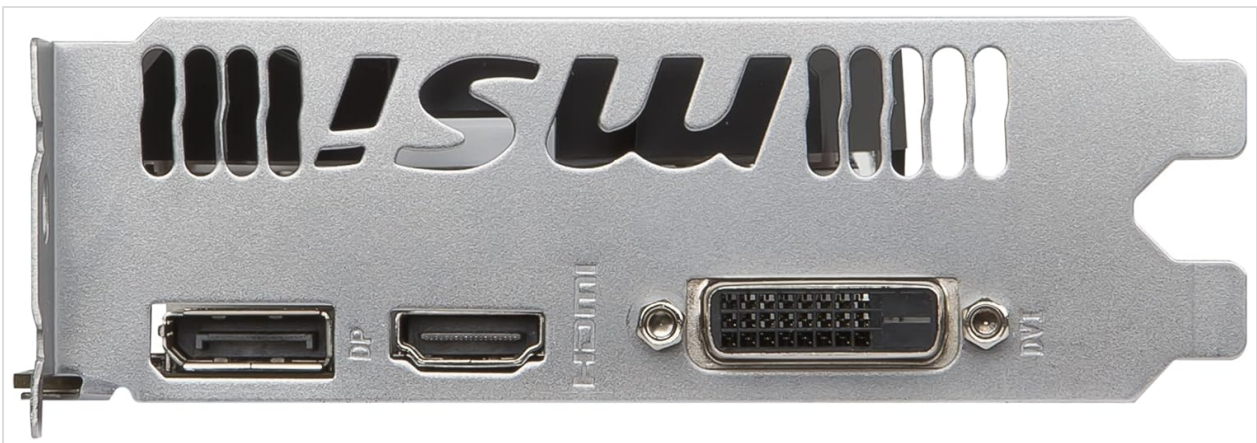


Image: A close-up view of the display output ports on the MSI GeForce GTX 1050 Ti 4GT OC graphics card, including DisplayPort, HDMI, and DVI, indicating connectivity options.

4.1.3 Connecting Power

The MSI GeForce GTX 1050 Ti 4GT OC graphics card has a low power consumption of 75W and typically draws all necessary power directly from the PCI Express slot. Therefore, an additional external power connector (e.g., 6-pin or 8-pin PCIe power cable) is generally not required for this model.

4.2 Software Setup

4.2.1 Driver Installation

1. After hardware installation, close your computer case and reconnect the power cable.
2. Power on your computer.
3. Windows may automatically install a basic display driver. For optimal performance, download the latest drivers from the official NVIDIA website (www.nvidia.com/drivers). Select your product type, series, and operating system.
4. Run the downloaded driver installer and follow the on-screen instructions.
5. Restart your computer when prompted to complete the installation.

4.2.2 MSI Afterburner (Optional)

MSI Afterburner is a widely recognized utility for graphics card overclocking, monitoring, and fan control. It allows users to fine-tune their graphics card for enhanced performance or optimized cooling. You can download it from the official MSI website.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

Once drivers are installed, your graphics card will function automatically. You can adjust display settings through your operating system's display configuration or the NVIDIA Control Panel, which is installed with the drivers.

5.2 Display Configuration

To configure your display settings:

- **Windows Display Settings:** Right-click on your desktop and select 'Display settings' (Windows 10/11) or 'Screen resolution' (Windows 7/8) to adjust resolution, orientation, and multiple displays.
- **NVIDIA Control Panel:** Right-click on your desktop and select 'NVIDIA Control Panel'. This utility provides advanced options for 3D settings, display resolution, color adjustments, and multiple display setups.

5.3 Optimizing Performance

For optimal gaming and application performance:

- Ensure your graphics drivers are always up to date.
- Use the NVIDIA Control Panel to set preferred graphics processors for specific applications.
- Monitor GPU temperatures and fan speeds using tools like MSI Afterburner to prevent overheating.
- Maintain good airflow within your computer case.

6. MAINTENANCE

6.1 Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your graphics card:

- Ensure the computer is powered off and unplugged before cleaning.
- Use compressed air to gently remove dust from the fans and heatsink fins. Hold the fans to prevent them from spinning rapidly during cleaning.
- Wipe the exterior of the card with a soft, dry, lint-free cloth. Avoid using liquid cleaners directly on the card.

6.2 Driver Updates

Periodically check the official NVIDIA website for new driver releases. Updated drivers often include performance improvements, bug fixes, and support for new games or applications.

7. TROUBLESHOOTING

7.1 Common Issues and Solutions

- **No Display Output:**

- Ensure the monitor cable is securely connected to both the graphics card and the monitor.
- Verify the graphics card is properly seated in the PCI Express slot.
- Check if your monitor is set to the correct input source.

- **Driver Installation Failure:**

- Download the latest drivers directly from the NVIDIA website.
- Temporarily disable antivirus software during installation.
- Use Display Driver Uninstaller (DDU) in Safe Mode to completely remove old drivers before attempting a fresh installation.

- **Poor Performance / Freezing:**

- Ensure your system meets the game/application's minimum requirements.
- Check GPU temperatures; overheating can cause performance throttling.
- Verify that your power supply unit (PSU) meets the recommended wattage.
- Update your graphics drivers.

- **Artifacts or Distorted Display:**

- This could indicate a faulty card or overheating. Check temperatures.
- Ensure the card is properly seated.
- Test with a different display cable or monitor if possible.

If you continue to experience issues, refer to the MSI support website or contact technical support.

8. SPECIFICATIONS

8.1 Technical Specifications

Feature	Specification
Graphics Processing Unit	NVIDIA GeForce GTX 1050 Ti
Video Memory	4GB GDDR5
Memory Interface	128-bit
Core Clocks	1455 MHz (Boost) / 1341 MHz (Base)
Bus Standard	PCI Express 3.0 x16
Maximum Digital Resolution	7680x4320
Power Consumption	75W
Recommended PSU	300W
Dimensions (LxWxH)	8.5 x 1.5 x 4.4 inches (21.6 x 3.8 x 11.2 cm)
Output Ports	DisplayPort, HDMI, DVI
Model Number	V809-2277R

9. WARRANTY AND SUPPORT

9.1 Warranty Information

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

9.2 Technical Support

For technical assistance, driver downloads, or frequently asked questions, please visit the official MSI support website. You can typically find support resources, contact information, and service centers listed there.