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› MSI GeForce GTX 1050 Ti 4G OC Graphics Card User Manual

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

Model: GTX 1050 TI 4G OC

1. PRODUCT OVERVIEW

The MSI GeForce GTX 1050 Ti 4G OC is a high-performance graphics card designed to enhance your computing experience, particularly for gaming and multimedia applications. It features NVIDIA's Pascal architecture, offering efficient power consumption and robust performance. This manual provides essential information for installation, operation, and maintenance.



Image 1.1: Front view of the MSI GeForce GTX 1050 Ti 4G OC Graphics Card, showcasing its cooling fan and heatsink design.

2. PACKAGE CONTENTS

Verify that all items are present in your product package:

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

3. SPECIFICATIONS

Feature	Specification
Chipset	NVIDIA GeForce GTX 1050 Ti
Video Memory	4GB GDDR5
Memory Interface	128-bit
Bus Standard	PCI-Express 3.0 x16
Core Clock Speed	1455 MHz
Max Screen Resolution	3840x2160

Feature	Specification
Output Interface	HDMI, DisplayPort, DVI
Dimensions (LxWxH)	6.9 x 1.3 x 4.6 inches (182.0 x 69.0 x 35.0 mm)
Weight	1 pound

4. SETUP AND INSTALLATION

4.1 System Requirements

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 300W or greater system power supply (with a minimum 12V current rating of 20A).
- Minimum 4GB system memory (8GB recommended).
- Microsoft Windows 10, Windows 8.1, Windows 7 (32-bit or 64-bit).
- Internet connection for driver download.

4.2 Hardware Installation

1. **Prepare your system:** 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. Remove any existing graphics card or slot cover.
3. **Install the graphics card:** Carefully align the graphics card with the PCIe slot and press it down firmly until it is securely seated. Ensure the retention clip locks into place.
4. **Secure the card:** Fasten the graphics card to the computer case with a screw.
5. **Connect power (if applicable):** This model typically draws power directly from the PCIe slot. If your specific variant includes a 6-pin power connector, connect the appropriate power cable from your power supply to the card.
6. **Close the case:** Replace the computer case cover and reconnect the power cable.



Image 4.1: Rear view of the graphics card, showing DisplayPort, HDMI, and DVI output ports for display connections.

4.3 Driver Installation

1. **Power on:** Connect your monitor to one of the graphics card's output ports (HDMI, DisplayPort, or DVI) and power on your computer.

2. **Initial boot:** Your system may boot into a basic display mode.
3. **Download drivers:** Visit the official MSI website (www.msi.com) or NVIDIA's official website (www.nvidia.com/drivers). Navigate to the support section for your specific graphics card model (GeForce GTX 1050 Ti).
4. **Install drivers:** Download the latest recommended drivers for your operating system. Run the installer and follow the on-screen instructions. A system restart may be required.
5. **Verify installation:** After restarting, open NVIDIA Control Panel or Device Manager to confirm that the graphics card and drivers are correctly installed.

5. OPERATING INSTRUCTIONS

5.1 Connecting Displays

Connect your monitor(s) to the available display output ports on the graphics card. The card supports HDMI, DisplayPort, and DVI. For optimal performance and resolution, use high-quality cables.

5.2 NVIDIA Software

After driver installation, you will have access to NVIDIA software such as the NVIDIA Control Panel and GeForce Experience. These tools allow you to:

- Adjust display settings (resolution, refresh rate, color).
- Optimize game settings for best performance and visual quality.
- Update drivers automatically.
- Record and stream gameplay (via GeForce Experience).

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your graphics card:

- **Keep drivers updated:** Regularly check for and install the latest graphics drivers from NVIDIA or MSI to ensure compatibility, performance improvements, and security updates.
- **Clean the cooling system:** Periodically clean the fan and heatsink to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air to gently remove dust from the fan blades and heatsink fins. Ensure the system is powered off and unplugged before cleaning.
- **Monitor temperatures:** Use monitoring software (e.g., MSI Afterburner, HWMonitor) to keep an eye on the graphics card's temperature, especially during heavy loads. Ensure temperatures remain within safe operating limits.

7. TROUBLESHOOTING

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

- **No display or black screen:**
 - 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.
 - Check if your monitor is set to the correct input source.
 - If applicable, ensure the additional power connector is securely attached.
- **Poor performance in games/applications:**
 - Ensure you have the latest graphics drivers installed.
 - Check in-game settings; reduce resolution or graphics quality if necessary.
 - Monitor the graphics card's temperature to rule out thermal throttling.
 - Verify that your system meets the minimum requirements for the game/application.
 - **Driver installation issues:**
 - Uninstall any previous graphics drivers using a utility like Display Driver Uninstaller (DDU) in Safe Mode, then attempt a clean installation of the latest drivers.
 - Ensure your operating system is up to date.

For further assistance, please contact MSI customer support or refer to the online resources mentioned in the Support section.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

MSI products are covered by a limited warranty. The specific terms and duration of your warranty may vary by region and product. Please refer to the warranty card included with your product or visit the official MSI website for detailed warranty information.

8.2 Technical Support

For technical assistance, driver downloads, FAQs, and product registration, please visit the official MSI support website:

www.msi.com/support

You may also find helpful resources and community forums on the NVIDIA website:

www.nvidia.com/support
