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MSI GeForce GTX 1050 TI GAMING X 4G Graphics Card User Manual

Model: GeForce GTX 1050 TI GAMING X 4G | Brand: MSI Computer

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your MSI GeForce GTX 1050 TI GAMING X 4G graphics card. The MSI GeForce GTX 1050 Ti is designed for enhanced gaming performance, featuring a scaled-down version of the Twin Frozr VI thermal design for optimal cooling and higher clock speeds. It incorporates a tailored 4-phase PCB design with military-grade components and a 6-pin power connector to support overclocking. Please read this manual thoroughly before proceeding with installation or use.

1. SETUP AND INSTALLATION

1.1 System Requirements

- PCI Express-enabled motherboard with one x16 slot.
- Minimum 300W power supply unit (PSU) with one 6-pin PCIe power connector.
- Operating System: Windows 7/8/10/11 (64-bit recommended).
- At least 4GB of system memory (8GB or more recommended).

1.2 Physical Installation

1. **Prepare Your System:** Power off your computer and unplug the power cord. Open the computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. Remove the corresponding expansion slot cover(s) from the computer case.
3. **Insert Graphics Card:** Carefully align the graphics card with the PCIe x16 slot. Press down firmly until the card is securely seated in the slot. Ensure the retention clip on the motherboard clicks into place.
4. **Secure the Card:** Secure the graphics card to the computer case using the screw(s) removed earlier or provided with your case.
5. **Connect Power:** Connect the 6-pin PCIe power connector from your power supply to the corresponding port on the graphics card.



Figure 1: Angled view of the MSI GeForce GTX 1050 TI GAMING X 4G graphics card.

6. **Close Case and Connect Displays:** Close your computer case. Connect your display monitor(s) to the appropriate output ports on the graphics card (DisplayPort, HDMI, Dual-link DVI-D).



Figure 2: Display output ports on the graphics card.

7. **Power On:** Plug in the power cord and turn on your computer.

1.3 Driver Installation

After physical installation, you must install the latest graphics drivers for optimal performance and stability. Drivers can be downloaded from the official MSI or NVIDIA website. Follow the on-screen instructions provided by the driver installer.

2. OPERATING YOUR GRAPHICS CARD

2.1 Basic Functionality

Once drivers are installed, your graphics card will automatically handle display output and accelerate graphics-

intensive applications and games. Ensure your monitor is connected to the graphics card's output ports, not the motherboard's integrated graphics ports.

2.2 Software and Utilities

MSI provides various software utilities to enhance your experience, such as MSI Afterburner for monitoring and overclocking, and MSI Dragon Center for system optimization. These tools allow you to fine-tune performance, monitor temperatures, and customize settings.

The card supports VR applications and features a dedicated VR Link HDMI port for convenient VR headset connectivity.

3. MAINTENANCE

3.1 Cleaning

Regularly clean your graphics card to prevent dust buildup, which can hinder cooling performance. Use compressed air to gently blow dust from the fans and heatsink fins. Ensure the system is powered off and unplugged before cleaning.

3.2 Thermal Management

The Twin Frozr VI thermal design is highly efficient. For optimal longevity and performance, ensure good airflow within your computer case. Monitor temperatures using software like MSI Afterburner. Maintaining temperatures below 68°C during heavy loads can significantly extend the card's lifespan.

4. TROUBLESHOOTING

4.1 No Display Output / Black Screen on Boot

- **Check Connections:** Ensure the monitor cable is securely connected to the graphics card's output port and the monitor. Verify the 6-pin PCIe power connector is firmly attached to the graphics card.
- **Reseat Card:** Power off and unplug the PC. Carefully remove and re-insert the graphics card into the PCIe slot to ensure it is fully seated.
- **Driver Issues:** If you get a black screen after driver installation, boot into Safe Mode (Windows) and uninstall the graphics drivers. Then, reinstall the latest drivers from the official NVIDIA website.
- **BIOS/UEFI Settings:** Ensure your motherboard's BIOS/UEFI settings are configured to prioritize the dedicated graphics card over integrated graphics, if applicable.

4.2 Performance Issues

- **Update Drivers:** Always ensure you have the latest graphics drivers installed.
- **Monitor Temperatures:** High temperatures can lead to performance throttling. Ensure adequate cooling and clean the card as described in the Maintenance section.
- **Power Supply:** Verify your PSU meets the minimum wattage requirement (300W recommended) and provides stable power.

5. SPECIFICATIONS

Feature	Detail
Chipset	NVIDIA GeForce GTX 1050 Ti
Video Memory	4GB GDDR5
Memory Interface	128-bit
Cores	768 units
Boost Clock (OC Mode)	1493 MHz
Base Clock (OC Mode)	1379 MHz
Memory Frequency (OC Mode)	7108 MHz
Max. Digital Resolution	7680 x 4320
Multi-Display Support	Up to 3 monitors (2560 x 1600)
Video Output Ports	1x DisplayPort, 1x HDMI, 1x Dual-link DVI-D
Card Dimensions (L x W x H)	229 x 131 x 39 mm (9.01 x 5.16 x 1.54 inches)
Power Consumption	75W
Recommended PSU	300W
Power Connector	6-pin x1

6. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official MSI website. Keep your proof of purchase for warranty claims.

Additional support and resources, including the full User Guide in PDF format, can be found on the MSI support page or by clicking the link below:

[Download Official User Guide \(PDF\)](#)