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ASUS PH-GTX1050TI-4G GeForce GTX 1050 Ti Graphics Card User Manual

Model: PH-GTX1050TI-4G

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ASUS PH-GTX1050TI-4G GeForce GTX 1050 Ti Graphics Card. Please read this manual thoroughly before installing and using the product to ensure proper functionality and to prevent damage.



Figure 1.1: Top-down view of the ASUS PH-GTX1050TI-4G Graphics Card, highlighting its compact design and single fan cooling solution.

2. SAFETY INFORMATION

- Always disconnect the power supply from your computer before installing or removing any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to the graphics card and other components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.
- Keep the graphics card away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in your product package:

- ASUS PH-GTX1050TI-4G Graphics Card
- Driver CD
- Quick Start Guide

4. SETUP

4.1 System Requirements

- PCI Express-enabled motherboard with one x16 graphics slot.
- Minimum 300W power supply (check your system's power supply for compatibility).
- Operating System: Microsoft Windows 10, 8.1, 7 (32/64-bit).
- Minimum 4GB system memory (RAM).
- CD-ROM or DVD-ROM drive for driver installation (or internet connection for download).

4.2 Physical Installation

1. Power 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. Locate an available PCI Express x16 slot on your motherboard. Remove the metal bracket cover from the back of the computer case corresponding to this slot.
4. Carefully align the graphics card with the PCI Express x16 slot. Press down firmly until the card is securely seated in the slot.
5. Secure the graphics card to the computer case with a screw.
6. Close your computer case and reconnect the power cable.



Figure 4.1: Angled view of the graphics card, illustrating the PCI Express connector for motherboard installation and the metal mounting bracket.

4.3 Driver Installation

1. Power on your computer.
2. Insert the provided Driver CD into your optical drive. The installation wizard should launch automatically. If not, navigate to the CD drive in 'My Computer' and run the setup file.
3. Follow the on-screen instructions to install the graphics drivers and any bundled software.
4. Alternatively, download the latest drivers from the official ASUS support website (www.asus.com/support/) for your specific model.
5. Restart your computer after the installation is complete.

5. OPERATING

5.1 Connecting Displays

The ASUS PH-GTX1050TI-4G graphics card supports multiple display outputs. Connect your monitor(s) to the

appropriate ports on the graphics card:

- **DVI-D:** Connects to monitors with a DVI-D input.
- **HDMI:** Connects to HDMI-compatible displays, including TVs and monitors.
- **DisplayPort:** Connects to DisplayPort-compatible monitors.



Figure 5.1: Rear view of the graphics card, displaying the available DVI, HDMI, and DisplayPort output connectors for various display types.

5.2 Basic Usage and Display Settings

Once drivers are installed and your display is connected, you can configure display settings through your operating system or the NVIDIA Control Panel. Right-click on your desktop and select 'NVIDIA Control Panel' or 'Display Settings' to adjust resolution, refresh rate, and multiple display configurations.

6. MAINTENANCE

6.1 Cleaning

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

- **Dust Removal:** Periodically use compressed air to clean dust from the fan blades and heatsink fins. Ensure the computer is powered off and unplugged before cleaning. Hold the fan gently to prevent it from spinning too fast during cleaning.
- **Surface Cleaning:** Use a soft, dry, lint-free cloth to wipe the exterior surfaces of the card. Avoid using liquid cleaners directly on the card.



Figure 6.1: Angled view of the graphics card, highlighting the fan and heatsink shroud, which should be kept clear of dust for efficient cooling.

6.2 Driver Updates

Keep your graphics drivers updated to ensure compatibility with the latest software and games, and to benefit from performance improvements and bug fixes. Visit the official NVIDIA website or ASUS support page regularly for the newest driver releases.

7. TROUBLESHOOTING

- **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 PCI Express slot.
 - Check if your monitor is set to the correct input source (e.g., HDMI, DVI, DisplayPort).
 - Test with a different monitor or cable if possible.
- **Driver Installation Issues:**
 - Uninstall any previous graphics drivers before installing new ones.

- Download the latest drivers directly from the ASUS or NVIDIA website.
- Ensure your operating system is up to date.
- **Poor Performance or Instability:**
 - Ensure your system meets the minimum requirements for the applications you are running.
 - Check for overheating. Monitor GPU temperatures using utility software. Ensure proper case ventilation.
 - Verify that your power supply unit (PSU) provides sufficient and stable power.
 - Update your motherboard's BIOS to the latest version.

If you continue to experience issues, please refer to the ASUS support website or contact their customer service.

8. SPECIFICATIONS

Feature	Specification
Graphics Engine	NVIDIA GeForce GTX 1050 Ti
Video Memory	4GB GDDR5
Memory Speed	7008 MHz
Interface	PCI Express 3.0
Video Output Interface	1x DVI-D, 1x HDMI, 1x DisplayPort
Dimensions (LxWxH)	11.81 x 7.87 x 2.17 inches (approx.)
Item Weight	12.6 ounces (approx.)
Recommended PSU	300W or greater

9. WARRANTY

This ASUS product comes with a limited manufacturer's warranty. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims. For detailed warranty information, visit the official ASUS support website or contact your local ASUS representative.

10. SUPPORT

For technical support, driver downloads, FAQs, and further product information, please visit the official ASUS support website:

www.asus.com/support/

You may also find assistance through the ASUS customer service hotline available in your region.