ASUS GTX650TI-DC2O-1GD5

ASUS NVIDIA GeForce GTX 650 Ti OC Graphics Card User Manual

Model: GTX650TI-DC2O-1GD5

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your ASUS NVIDIA GeForce GTX 650 Ti OC graphics card. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.

The ASUS GTX 650 Ti OC is designed to deliver enhanced graphics performance for your computing needs, featuring 1GB GDDR5 memory and a PCI-Express 3.0 x16 interface.

2. PACKAGE CONTENTS

Verify that all items are present in your product package:

- ASUS NVIDIA GeForce GTX 650 Ti OC Graphics Card
- Driver CD/DVD (or link to driver download)
- Quick Start Guide
- Power Adapter Cable (if required for your power supply)

Image: The ASUS NVIDIA GeForce GTX 650 Ti OC graphics card, its retail packaging, and a detailed view of its VGA, DVI, and HDMI output ports.

3. PRODUCT FEATURES

- Chipset: NVIDIA GeForce GTX 650 Ti

- Video Memory: 1GB GDDR5
- Memory Interface: 128-bit
- Bus: PCI-Express 3.0 x16
- Max. Resolution: 2560 x 1600
- Connectors: VGA, 2x DVI-D, HDMI
- Thermal: Fansink (Dual Fans)

4. SETUP AND INSTALLATION

4.1 System Requirements

- PCI-Express x16 slot on motherboard
- Minimum 400W power supply (with one 6-pin PCI-E power connector, if required by the card)
- Compatible operating system (e.g., Windows 7/8/10)
- CD-ROM drive or internet connection for driver installation

4.2 Hardware Installation

1. **Power Off:** Turn off your computer and unplug the power cord from the wall outlet.
2. **Open Case:** Open your computer case.
3. **Locate PCI-E Slot:** Find an available PCI-Express x16 slot on your motherboard.
4. **Remove Slot Cover:** Remove the metal slot cover from the back of your computer case corresponding to the chosen PCI-E slot.
5. **Insert Card:** Carefully align the graphics card with the PCI-Express slot and press it firmly until it is securely seated.
6. **Secure Card:** Secure the card to the case with a screw.
7. **Connect Power:** If your graphics card requires external power (check for a 6-pin or 8-pin connector on the card), connect the appropriate power cable from your power supply to the card.
8. **Close Case:** Close your computer case and reconnect all cables.

5. OPERATING INSTRUCTIONS

5.1 Driver Installation

1. **Power On:** Turn on your computer. The operating system may automatically detect new hardware.
2. **Install Drivers:**

   - Insert the provided driver CD/DVD into your optical drive and follow the on-screen instructions.
   - Alternatively, download the latest drivers from the official ASUS support website (www.asus.com/support) or NVIDIA's official website (www.nvidia.com/drivers).

3. **Restart:** Restart your computer after the driver installation is complete.

5.2 Connecting Displays

Connect your monitor(s) to the appropriate output ports on the graphics card (VGA, DVI-D, HDMI). The card supports multiple displays simultaneously. Refer to your operating system's display settings for configuration.

6. MAINTENANCE

- **Dust Removal:** Periodically clean dust from the graphics card's heatsink and fans using compressed air. Ensure

the computer is powered off and unplugged before cleaning.

- **Driver Updates:** Regularly check the ASUS or NVIDIA website for the latest driver updates to ensure optimal performance and compatibility.
- **Temperature Monitoring:** Use monitoring software to keep an eye on the card's temperature, especially during heavy load, to prevent overheating.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display on monitor	Card not seated properly; incorrect display cable connection; no power to card.	Reseat the card firmly in the PCI-E slot. Check display cable connections. Ensure external power connector (if any) is securely attached.
Low performance or crashes	Outdated drivers; overheating; insufficient power supply.	Update to the latest graphics drivers. Ensure proper case ventilation and clean dust. Verify power supply meets minimum requirements.
Driver installation failure	Conflicting old drivers; corrupted download.	Uninstall all previous graphics drivers using a driver uninstaller utility. Download drivers again from official sources.

8. SPECIFICATIONS
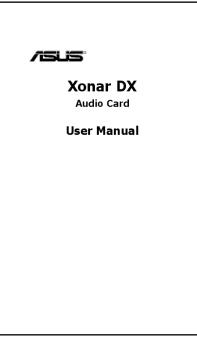
Feature	Detail
Product Dimensions	10.8 x 2.3 x 4.7 inches
Item Weight	2.6 pounds
Item Model Number	GTX650TI-DC2O-1GD5
Manufacturer	ASUS
Graphics Coprocessor	NVIDIA
Brand	ASUS
Graphics RAM Size	1GB GDDR5
Video Output Interface	VGA, 2x DVI-D, HDMI
Graphics Processor Manufacturer	NVIDIA
Date First Available	October 5, 2012

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, please refer to the warranty card included with your product or visit the official ASUS support website. ASUS provides technical support and resources to assist you with any product-related inquiries.
ASUS Support Website: www.asus.com/support

Related Documents

	[ASUS TUF Gaming GeForce GTX 1650 4GB GDDR6 Graphics Card](#) Detailed specifications for the ASUS TUF Gaming GeForce GTX 1650 graphics card, featuring NVIDIA's GeForce GTX 1650 processor, 4GB GDDR6 memory, and a 1785 MHz boost clock speed.
	[ASUS TUF Gaming GeForce RTX 3060 Ti Graphics Card - Built TUF](#) Explore the ASUS TUF Gaming GeForce RTX 3060 Ti graphics card, featuring NVIDIA Ampere architecture, advanced cooling, and robust components for superior gaming and creative performance. Detailed specifications and features.
	[ASUS DUAL RTX 4060 Ti OC Edition 8GB GDDR6 Graphics Card | High-Performance GPU](#) Discover the ASUS DUAL RTX 4060 Ti OC Edition graphics card. Featuring NVIDIA's Ada Lovelace architecture, DLSS 3, Ray Tracing, and PCIe Gen 5, it delivers exceptional gaming and creative performance with advanced cooling.
	[ASUS Xonar DX Audio Card User Manual: Installation, Features, and Guide](#) Get detailed instructions for installing and using the ASUS Xonar DX high-fidelity audio card. This manual covers system requirements, hardware and software setup, connectivity, driver features, and troubleshooting for optimal audio performance.

Documents - ASUS – GTX650TI-DC2O-1GD5

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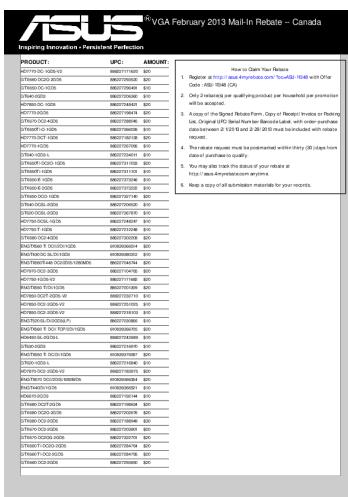
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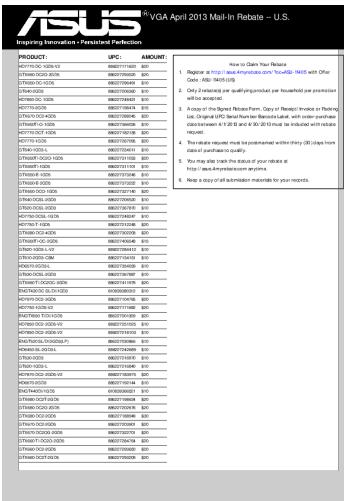
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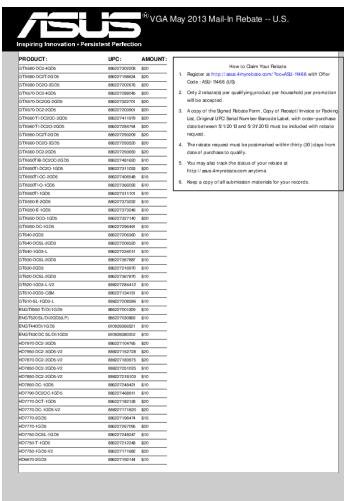
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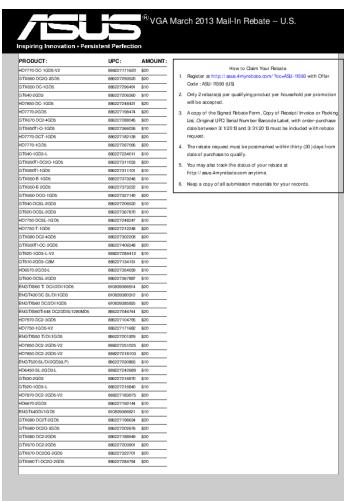
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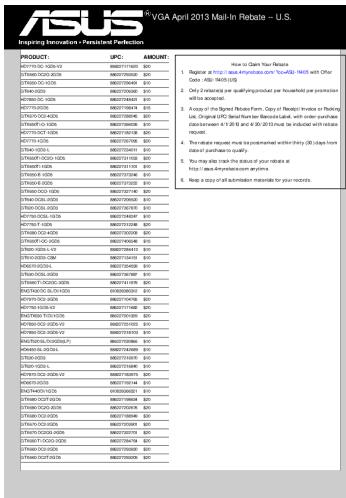
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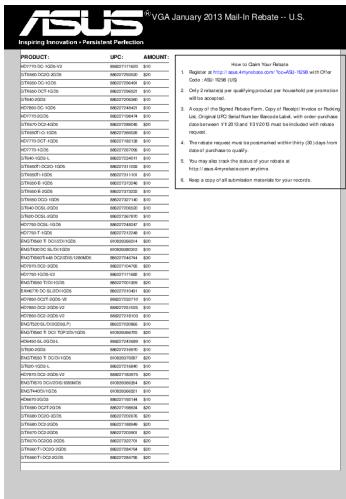
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