

Cuifati CUIFATIn2tgxh4id7

Cuifati GTX650 Gaming Graphics Card User Manual

Model: CUIFATIn2tgxh4id7

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Cuifati GTX650 2GB GDDR5 Gaming Graphics Card. Please read this manual carefully before using the product to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

The Cuifati GTX650 2GD5 Graphics Card is designed for PC gaming, featuring a GK107 core with 384 stream processors and GDDR5 high-speed memory. It is engineered to provide stable and efficient graphics processing for an enhanced gaming experience.

Key Features:

- **PCB Design:** Features a robust PCB board design with 3-phase separated power supply technology and an external power interface for stable output at 1059/5000MHz default frequency.
- **HD Display Output:** Equipped with DVI, VGA, and HD Multimedia Interface (HDMI) for high-definition display and multi-channel sound output.
- **Memory Configuration:** 128-bit 2GB GDDR5 video memory for a smooth gaming experience.
- **Cooling System:** Utilizes an 8cm/3.1in silent fan combined with a heat sink, featuring an open measurement row design for efficient heat dissipation.
- **Multi-Screen Support:** Enables the formation of a multi-screen wide area for expanded visual setups.



Figure 2.1: Front view of the Cuifati GTX650 Graphics Card, highlighting the cooling fan and shroud design.



Figure 2.2: The graphics card showcasing its primary function as a game graphics card, with output interfaces visible.

3. SPECIFICATIONS

Specification	Value
Graphics Card Model	GTX650 2GD5
Graphics Card Core	GK107
Memory Capacity	2048MB (2GB)
Memory Type	GDDR5
Memory Bit Width	128bit
Memory Frequency	5000MHZ
Core Frequency	1059MHZ
Stream Processor Unit (SP)	384
Bus Interface	PCI Express3.0
Maximum Resolution	2560x1600
DirectX Support	DirectX12
Graphics Power Consumption	64W
External Power Supply	None
Recommended Power Source	300W
Cooling Method	Air Cooled
Input Output	HD Multimedia Interface, VGA, DVI
Package Dimensions	10.83 x 6.06 x 2.24 inches
Item Weight	1.09 pounds

4. SETUP AND INSTALLATION

This section guides you through the process of installing your new graphics card into your computer system.

4.1. Before Installation:

- Ensure your computer is powered off and unplugged from the wall outlet.
- Open your computer case. Refer to your computer's manual for instructions on how to safely open the case.
- Discharge any static electricity by touching a grounded metal object, such as the computer case's unpainted metal surface.
- Verify your power supply meets the recommended 300W requirement.

4.2. Installation Steps:

1. Locate an available PCI Express 3.0 x16 slot on your motherboard. This is typically the longest PCIe slot.
2. Remove the metal bracket cover from the back of your computer case corresponding to the chosen PCIe slot.
3. Carefully align the graphics card with the PCIe slot. Apply even pressure to both ends of the card until it is fully seated in the slot. You should hear a click as the retention clip engages.
4. Secure the graphics card to the computer case using the screw from the removed metal bracket cover.
5. Since this card does not require an external power supply, no additional power cables are needed.
6. Close your computer case and reconnect all peripherals and the power cable.



Figure 4.1: Rear view of the graphics card, displaying the HD Multimedia Interface (HDMI), DVI, and VGA output ports.

5. OPERATING INSTRUCTIONS

After physical installation, follow these steps to prepare your graphics card for operation.

5.1. Driver Installation:

1. Power on your computer. Your operating system may automatically detect the new hardware and attempt to install generic drivers.
2. Insert the provided CD-ROM into your computer's optical drive. Follow the on-screen instructions to install the official graphics drivers.
3. Alternatively, visit the official NVIDIA website (as the card uses an NVIDIA GeForce GTX 650 coprocessor) and download the latest drivers for the GTX 650 model compatible with your operating system.
4. Run the downloaded driver installer and follow the prompts. A system restart may be required after installation.

5.2. Connecting Displays:

- Connect your monitor(s) to the graphics card's output ports (HDMI, DVI, or VGA) using appropriate cables.
- Once drivers are installed, you can configure display settings (resolution, multiple displays) through your operating system's display settings or the NVIDIA Control Panel.



Figure 5.1: A user engaged in PC gaming, demonstrating the typical use case for the graphics card.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your graphics card.

- **Dust Removal:** Periodically open your computer case and gently clean dust from the graphics card's fan and heatsink using compressed air. Ensure the fan does not spin rapidly during cleaning.
- **Driver Updates:** Keep your graphics drivers updated. Check the NVIDIA website regularly for the latest driver releases, which often include performance improvements and bug fixes.
- **Temperature Monitoring:** Use system monitoring software to keep an eye on the graphics card's temperature, especially during heavy loads. Ensure adequate airflow within your computer case.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your graphics card.

Problem	Possible Cause	Solution
No display output	Card not seated correctly; Monitor cable loose; Incorrect input selected on monitor.	Reseat the graphics card; Check monitor cable connections; Select correct input source on monitor.
Low frame rates or poor performance	Outdated drivers; Overheating; Insufficient system resources.	Update graphics drivers; Ensure proper case airflow and clean card; Close unnecessary background applications.
Fan noise or unusual sounds	Dust accumulation on fan; Fan bearing issue.	Clean the fan and heatsink; If noise persists, contact support.
System crashes or blue screens	Driver conflict; Overheating; Faulty card.	Reinstall drivers; Check temperatures; If issues persist, contact support.

8. WARRANTY INFORMATION

The Cuifati GTX650 Gaming Graphics Card comes with a warranty to cover manufacturing defects. Please retain your proof of purchase for warranty claims.

As per manufacturer information, the product supports a**90-day exchange policy**. For specific terms and conditions regarding warranty and returns, please refer to the documentation provided at the time of purchase or contact the seller directly.

Figure 8.1: Cuifati's 90-day warranty information.

9. SUPPORT

For further assistance, technical support, or warranty inquiries, please contact your retailer or the manufacturer directly. You can also visit the official Cuifati store for more information and support resources:

[Visit Cuifati Store](#)

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