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MSI N210-MD1G/D3

MSI N210MD1GD3 GeForce 210 Graphic Card User Manual

Model: N210-MD1G/D3

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your MSI N210MD1GD3 GeForce 210 Graphic Card. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.



Image: The MSI N210MD1GD3 GeForce 210 Graphic Card, featuring a compact design with a fan and various display outputs.

2. Package Contents

Verify that your package contains the following items:

- MSI N210MD1GD3 GeForce 210 Graphic Card
- Low Profile Brackets (for small form factor cases)
- Driver & Utility CD (may include Adobe Acrobat Reader, MSI Live Update Series, Microsoft DirectX, MSI Live, MSI VIVID, MSI Live Update 4, MSI Afterburner, MSI StarOSD, MSI Dual Core Center, Norton Internet Security 2008 (60 days subscription))

3. Setup and Installation

3.1. Pre-installation Checklist

- Ensure your computer is powered off and disconnected from the power outlet.
- Open your computer case to access the motherboard and expansion slots.
- Ground yourself to discharge any static electricity before handling components.

3.2. Adapting for Low Profile (if necessary)

If your computer case is a small form factor (SFF) design, you may need to replace the standard full-height bracket on the graphics card with the included low-profile brackets. This process typically involves unscrewing the existing bracket and attaching the smaller ones.

3.3. Installing the Graphics Card

1. Locate an available PCI Express 2.0 x16 slot on your motherboard.
2. Remove the corresponding metal slot cover from the back of your computer case.
3. Carefully align the graphics card with the PCI Express slot and press down firmly until it is securely seated.
4. Secure the graphics card to the case using the screw or retention clip.

3.4. Connecting Display Cables

Connect your monitor(s) to the appropriate output ports on the graphics card (VGA, DVI, or HDMI). Ensure cables are securely fastened.

3.5. Driver Installation

1. After installing the hardware, close your computer case and reconnect all peripherals and the power cable.
2. Power on your computer.
3. Insert the provided Driver & Utility CD into your optical drive. If an auto-run menu does not appear, navigate to the CD drive in 'My Computer' or 'This PC' and run the setup executable.
4. Follow the on-screen instructions to install the graphics card drivers. Restart your computer when prompted.
5. Alternatively, download the latest drivers from the official MSI website by searching for your specific model (N210-MD1G/D3).

3.6. Installation Video Guide

Your browser does not support the video tag.

Video: A general guide demonstrating the installation process of a low-profile graphics card into a Dell Small Form Factor (SFF) case. This video illustrates unboxing, swapping to low-profile brackets, and physically installing the card into a compatible PC. While the specific card shown may differ, the installation steps are broadly applicable to the MSI N210MD1GD3.

4. Operating Instructions

4.1. First Boot and Display Verification

After driver installation, your computer should boot normally with display output from the new graphics card. Verify that the display resolution is correct and that all connected monitors are detected.

4.2. Adjusting Display Settings

You can adjust display settings such as resolution, refresh rate, and multiple monitor configurations through your operating system's display settings or the NVIDIA Control Panel (accessible via right-click on the desktop).

4.3. Software Utilities

The included MSI utilities, such as MSI Afterburner, can be used for monitoring card performance, temperature, and making minor adjustments to clock speeds if desired. Refer to the specific utility's documentation for detailed usage.

5. Maintenance

5.1. Dust Removal

Regularly clean the graphics card's fan and heatsink to prevent dust buildup, which can impede cooling and affect performance. Use compressed air for best results, ensuring the fan does not spin excessively during cleaning.

5.2. Ensure Proper Airflow

Maintain good airflow within your computer case by ensuring cables are neatly managed and case fans are functioning correctly. Adequate airflow helps dissipate heat from the graphics card and other components.

6. Troubleshooting

6.1. No Display Output

- Check all display cable connections between the graphics card and the monitor.
- Ensure the monitor is set to the correct input source.
- Reseat the graphics card in its PCI Express slot.
- Test with a different display cable or monitor if possible.

6.2. Driver Installation Issues

- Ensure you have downloaded the correct drivers for your operating system and graphics card model from the MSI website.
- Uninstall any previous graphics drivers before attempting a new installation.
- Temporarily disable antivirus software during driver installation.

6.3. Performance Problems or Instability

- Ensure your system meets the minimum requirements for the applications or games you are running.

- Monitor the graphics card temperature using utilities like MSI Afterburner to check for overheating.
- Verify that your power supply unit (PSU) provides sufficient wattage for all system components.

7. Specifications

Feature	Specification
Chipset	NVIDIA GeForce 210
Core Clock	589 MHz
Video Memory	1GB GDDR3
Memory Clock	1000 MHz
Memory Interface	64-bit
Bus Interface	PCI-Express 2.0 x16
RAMDAC	400 MHz
Max. Resolution	2560 x 1600
Connectors	VGA, DVI, HDMI
Thermal Solution	Fansink
Dimensions	145.0 x 84.0 x 18.0 mm (5.71 x 3.31 x 0.04 inches)
Weight	10.8 ounces
Supported Technologies	Microsoft Windows 7, NVIDIA CUDA Technology, NVIDIA PureVideo HD Technology, HDCP, Microsoft DirectX 10.1, OpenGL 3.1
Compliance	RoHS Compliant

8. Warranty and Support

For detailed warranty information, technical support, and service inquiries regarding your MSI N210MD1GD3 GeForce 210 Graphic Card, please refer to the official MSI website or contact your authorized retailer. It is recommended to keep your proof of purchase for any warranty claims.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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