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› HEWLETT PACKARD Nvidia Quadro FX5500 1GB PCIe Graphics Card User Manual

## HEWLETT PACKARD RF089AA

# HEWLETT PACKARD Nvidia Quadro FX5500 1GB PCIe Graphics Card User Manual

Model: RF089AA

## INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your HEWLETT PACKARD Nvidia Quadro FX5500 1GB PCIe Graphics Card. Please read these instructions carefully before proceeding with installation to ensure proper functionality and to prevent damage to your system components.

The Nvidia Quadro FX5500 is a high-performance graphics card designed for professional workstations, featuring 1GB of GDDR2 video RAM, dual DVI outputs, and a PCI-Express x16 interface. It is equipped with a large cooling fan and heatsink for efficient thermal management.

## PRODUCT OVERVIEW AND COMPONENTS

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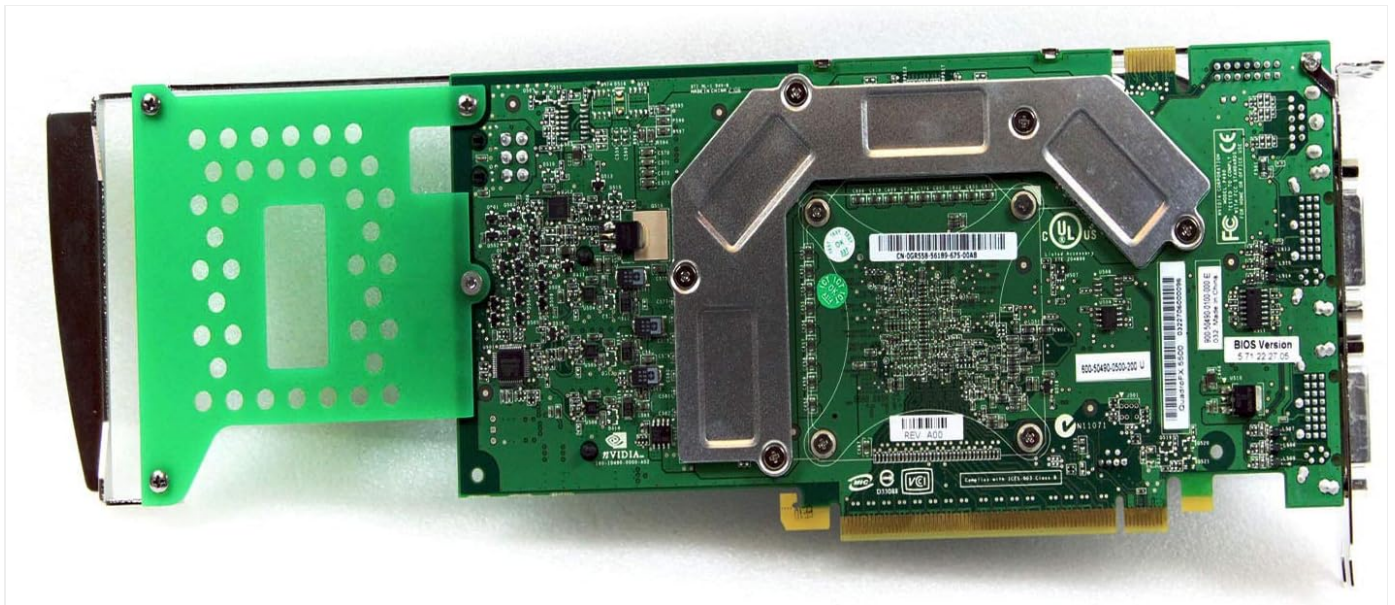
Familiarize yourself with the components of your graphics card before installation.



**Figure 1:** Front view of the Nvidia Quadro FX5500 graphics card, highlighting the dual DVI output ports and the large cooling fan assembly.



**Figure 2:** Top-down view of the graphics card, showing the central cooling fan and the heatsink fins beneath the transparent shroud.



**Figure 3:** Rear view of the graphics card's printed circuit board (PCB), revealing various electronic components and the mounting plate for the cooling solution.

## SETUP AND INSTALLATION

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Before beginning installation, ensure your computer is powered off and unplugged from the wall outlet. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

- 1. Prepare Your System:** Open your computer case. Locate an available PCI Express x16 slot on your motherboard. If an older graphics card is present, carefully remove it.
- 2. Insert the Graphics Card:** Align the Nvidia Quadro FX5500 card with the PCI Express x16 slot. Apply even, firm pressure to seat the card completely into the slot until it clicks into place.
- 3. Secure the Card:** Use a screw to secure the graphics card's mounting bracket to the computer case.
- 4. Connect Power (if applicable):** This card typically draws power directly from the PCIe slot. However, if your specific system or card revision requires auxiliary power, connect the appropriate PCIe power connector from your power supply to the card.
- 5. Close Case and Connect Display:** Close your computer case. Connect your display monitor(s) to the DVI output ports on the graphics card.
- 6. Power On:** Plug in your computer and power it on.

## OPERATING INSTRUCTIONS

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### Driver Installation

After physical installation, you must install the appropriate drivers for the graphics card to function correctly and to utilize its full capabilities.

- 1. Initial Boot:** Upon first boot with the new card, your operating system may install generic display drivers. This is normal.
- 2. Download Drivers:** Visit the official NVIDIA website ([www.nvidia.com/drivers](http://www.nvidia.com/drivers)) or your system manufacturer's support page (e.g., [HP Support](#)) to download the latest drivers for the Quadro FX5500. Select your operating system carefully.
- 3. Install Drivers:** Run the downloaded driver installer and follow the on-screen prompts. Your screen may flicker or go blank temporarily during installation; this is expected.

4. **Restart System:** After the driver installation is complete, restart your computer.

## Display Configuration

Once drivers are installed, you can configure your display settings.

- **Access NVIDIA Control Panel:** Right-click on your desktop and select "NVIDIA Control Panel" or access it via your operating system's control panel/settings.
- **Adjust Resolution:** Navigate to "Display" > "Change Resolution" to set your preferred screen resolution and refresh rate.
- **Multiple Displays:** If using dual monitors, go to "Display" > "Set up multiple displays" to configure extended desktop or clone modes.

## MAINTENANCE

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

- **Dust Removal:** Periodically (e.g., every 3-6 months), power off and unplug your computer. Open the case and use compressed air to gently clear dust from the graphics card's fan and heatsink fins. Hold the fan blades gently to prevent over-spinning while cleaning.
- **Driver Updates:** Keep your graphics drivers updated by regularly checking the NVIDIA website for new releases. Updated drivers often include performance improvements and bug fixes.
- **Temperature Monitoring:** Use system monitoring software to keep an eye on the GPU temperature, especially during heavy workloads. Ensure temperatures remain within safe operating limits.

## TROUBLESHOOTING

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If you encounter issues, refer to the following common troubleshooting steps.

- **No Display Output:**
  - Ensure the monitor cable is securely connected to both the graphics card and the monitor.
  - Verify the monitor is powered on and set to the correct input source.
  - Reseat the graphics card in its PCIe slot.
  - Check if any auxiliary power connectors are required and properly connected.
  - Test with a different monitor or cable if possible.
- **Driver Issues / Display Artifacts:**
  - Perform a clean installation of the latest NVIDIA drivers. Use a driver uninstaller utility (like Display Driver Uninstaller - DDU) in Safe Mode to remove old drivers completely before installing new ones.
  - Check for operating system updates.
- **Overheating / System Instability:**
  - Ensure the graphics card fan is spinning freely and not obstructed.
  - Clean dust from the heatsink and fan as described in the Maintenance section.
  - Verify adequate airflow within your computer case.
  - Monitor GPU temperatures using software.

## SPECIFICATIONS

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Key technical specifications for the HEWLETT PACKARD Nvidia Quadro FX5500 graphics card.

Feature	Detail
Brand	HEWLETT PACKARD
Model Number	RF089AA
Graphics Coprocessor	NVIDIA Quadro
Graphics Processor Manufacturer	NVIDIA
Video RAM Size	1 GB GDDR2
Video Output Interface	Dual DVI
Graphics Card Interface	PCI Express x16
Compatible Devices	Desktop Computers
Number of Fans	1
Maximum Display Resolution	3840 x 2400
Item Weight	1300 Grams
UPC	882780669772
ASIN	B000IXZ4DC

### Identification Numbers

- **Serial Number Example:** [0322706000096](#) (Refer to your specific card for its unique serial number)
- **Revision Number Example:** [A00](#) (Refer to your specific card for its unique revision number)
- **Part Number Example:** [CN0GR5585618967500AB](#) (Refer to your specific card for its unique part number)



Figure 4: Detailed view of the PCB, showing labels for BIOS version and a serial number (e.g., [0322706000096](#)).



Figure 5: Close-up of the PCB illustrating a revision number (e.g., [A00](#)) and other circuit details.

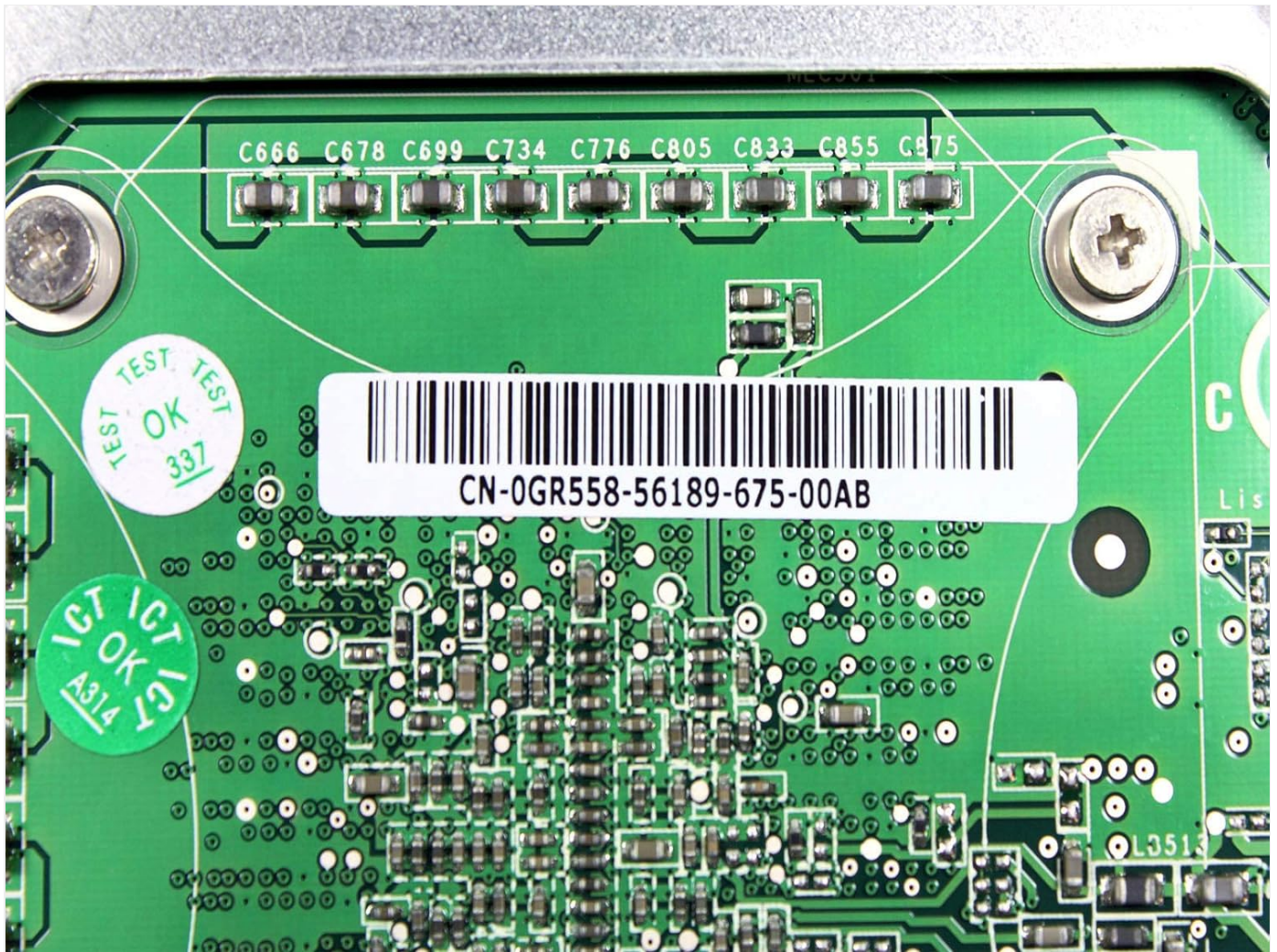


Figure 6: Detailed view of the PCB, highlighting a part number (e.g., [CN0GR5585618967500AB](#)) and quality control markings.

## WARRANTY AND SUPPORT

This product comes with a **7-day DOA (Dead On Arrival) warranty** for defective items. This warranty covers manufacturing defects that render the product non-functional upon initial receipt and installation.

For technical support, driver downloads, or further assistance, please refer to the official NVIDIA support website or the HEWLETT PACKARD support resources.

- **NVIDIA Support:** [www.nvidia.com/support](http://www.nvidia.com/support)
- **HEWLETT PACKARD Support:** [www.hp.com/support](http://www.hp.com/support)