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PNY VCQP1000-PB

PNY NVIDIA Quadro P1000 Professional Graphics Board User Manual

Model: VCQP1000-PB

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your PNY NVIDIA Quadro P1000 Professional Graphics Board. The Quadro P1000 is designed for professional visual computing workflows, offering advanced GPU architecture and display technologies for demanding applications.



Image: The PNY NVIDIA Quadro P1000 Professional Graphics Board, a compact graphics card with a single fan and multiple display outputs.

SAFETY INFORMATION

- Always disconnect power from your computer before installing or removing any components.
- Handle the graphics board by its edges to avoid touching sensitive components or connectors.
- Use an anti-static wrist strap or discharge static electricity by touching a grounded metal object before handling the board.
- Ensure proper ventilation within your computer case to prevent overheating.
- Keep the graphics board away from moisture and extreme temperatures.

WHAT'S IN THE BOX

Verify that all items are present in the package:

- NVIDIA® Quadro® P1000 Professional Graphics Board
- Attached Low-Profile (SFF) Bracket
- Unattached Full-Height (ATX) Bracket
- Software Installation Disc
- Printed Quick Start Guide
- Four mDP to DP Adapters

SETUP

1. Pre-installation

1. **System Compatibility:** Ensure your system has an available PCI Express x16 slot and adequate power supply.
2. **Power Off:** Shut down your computer completely and disconnect the power cord from the wall outlet.
3. **Open Case:** Open your computer's chassis to access the motherboard.

2. Physical Installation

1. **Remove Existing Card (if applicable):** If replacing an old graphics card, carefully remove it.
2. **Bracket Selection:** Determine if your system requires the low-profile (SFF) or full-height (ATX) bracket. Attach the appropriate bracket if necessary.
3. **Insert Graphics Board:** Align the graphics board with an available PCI Express x16 slot. Press firmly and evenly until the card is fully seated.
4. **Secure Card:** Secure the graphics board to the chassis with the retaining screw or clip.
5. **Close Case:** Close your computer's chassis and reconnect the power cord.

3. Driver Installation

1. **Power On:** Connect your display(s) to the graphics board's Mini DisplayPort outputs using the provided adapters if needed. Power on your computer.
2. **Install Drivers:**
 - Insert the provided Software Installation Disc and follow the on-screen instructions.
 - Alternatively, download the latest drivers from the official NVIDIA website (www.nvidia.com/drivers) for the Quadro P1000.
3. **Restart System:** Restart your computer after the driver installation is complete.

OPERATING

Once the drivers are installed, your PNY NVIDIA Quadro P1000 is ready for use. The NVIDIA Control Panel, accessible from your operating system, allows for advanced display configuration, including multi-display setups, resolution adjustments, and professional application settings.

- **Multi-Display Setup:** The Quadro P1000 supports up to four 4K displays. Use the NVIDIA Control Panel to configure display layouts (e.g., extended desktop, duplicate displays).
- **Professional Applications:** This card is optimized for professional design, CAD, video editing, and other visual computing applications. Ensure your software is updated to leverage the full capabilities of the Quadro P1000.

MAINTENANCE

- **Cleaning:** Periodically clean the fan and heatsink of the graphics board to ensure optimal cooling performance. Use compressed air to remove dust. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Regularly check the NVIDIA website for the latest driver updates. Keeping your drivers current can improve performance, stability, and compatibility with new software.

TROUBLESHOOTING

Problem	Possible Solution
No display or black screen after installation.	Ensure the graphics board is fully seated in the PCI Express slot. Verify display cables are securely connected to the graphics board and monitor. Check if the correct input source is selected on your monitor. Try booting with only one display connected.
"Code 43" error in Device Manager.	This often indicates a driver issue. Uninstall existing graphics drivers, restart, and then perform a clean installation of the latest NVIDIA drivers. Ensure your operating system is up to date.
Poor performance or application crashes.	Update to the latest NVIDIA Quadro drivers. Check for software updates for your professional applications. Monitor system temperatures to ensure the card is not overheating.

For further troubleshooting or complex issues, refer to the NVIDIA support website or contact PNY customer service.

SPECIFICATIONS

Feature	Detail
Graphics Coprocessor	NVIDIA Quadro P1000
Graphics Card Ram Size	4 GB GDDR5
Memory Speed	2500 MHz
Max Screen Resolution	5120x2880
Video Output Interface	DisplayPort (Mini DisplayPort)
Item Weight	4.5 ounces
Product Dimensions (LxWxH)	5.7 x 2.71 x 0.75 inches
Manufacturer	PNY
Model Number	VCQP1000-PB

WARRANTY INFORMATION

PNY products are covered by a limited warranty. For specific warranty terms and conditions, including duration and coverage details, please refer to the warranty card included with your product or visit the official PNY website. Keep your proof of purchase for warranty claims.

SUPPORT

For technical assistance, driver downloads, or product information, please visit the official PNY and NVIDIA support resources:

- **PNY Support:** www.pny.com/support
- **NVIDIA Drivers:** www.nvidia.com/drivers

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