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## PNY VCQP400V2-PB

# PNY Quadro P400 Graphic Card User Manual

Model: VCQP400V2-PB

## INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your PNY Quadro P400 Graphic Card. The PNY Quadro P400 is designed for professional applications, combining the NVIDIA Pascal GPU architecture with 2GB of on-board memory. Its single-slot, low-profile form factor ensures compatibility with various system configurations. It supports up to three 4K displays (4096 x 2160 at 60Hz) with HDR color, offering an expansive visual workspace.

## PRODUCT OVERVIEW

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The PNY Quadro P400 is a professional-grade graphics card engineered for reliability and performance in demanding visual computing workflows. It features NVIDIA's Pascal GPU architecture, providing efficient processing for tasks such as CAD, digital content creation, and scientific visualization. The card's design prioritizes compatibility and multi-display support, making it suitable for various professional environments.



Image: Top-down view of the PNY Quadro P400 Graphic Card, showcasing its compact design and cooling fan.

- **GPU Architecture:** NVIDIA Pascal
- **Memory:** 2GB GDDR5
- **Display Support:** Up to three 4K displays (4096 x 2160 at 60Hz) with HDR color via DisplayPort 1.4.
- **Form Factor:** Single-slot, low-profile.
- **Connectivity:** Three mini-DisplayPort outputs.

## SETUP

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### 1. Hardware Installation

1. **Prepare Your System:** Power off your computer and disconnect all cables. Open the computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard.
3. **Install the Card:** Carefully insert the PNY Quadro P400 into the PCIe slot until it is firmly seated. Secure the card with the retention mechanism or screw.
4. **Connect Displays:** Connect your monitors to the mini-DisplayPort outputs on the graphics card using appropriate cables or adapters.
5. **Close Case and Power On:** Close your computer case, reconnect all cables, and power on your system.



Image: PNY Quadro P400 Graphic Card shown with various mini-DisplayPort adapters, illustrating connectivity options.

## 2. Driver Installation

After hardware installation, you must install the latest NVIDIA Quadro drivers for optimal performance and stability.

1. **Download Drivers:** Visit the official NVIDIA website ([www.nvidia.com/drivers](http://www.nvidia.com/drivers)) and select your product (Quadro, P400) and operating system to download the latest drivers.
2. **Install Drivers:** Run the downloaded driver installer and follow the on-screen prompts. A system restart may be required.
3. **Verify Installation:** After restarting, open NVIDIA Control Panel (Windows) or NVIDIA X Server Settings (Linux) to confirm the driver installation and configure display settings.

## OPERATING THE GRAPHIC CARD

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### Display Configuration

The PNY Quadro P400 supports multiple displays. You can configure your display setup through your operating system's

display settings or the NVIDIA Control Panel.

- **Single Display:** Connect one monitor to any mini-DisplayPort output.
- **Multiple Displays:** Connect up to three monitors. You can extend your desktop across multiple displays or duplicate your desktop on all displays.
- **Resolution and Refresh Rate:** Adjust these settings in the NVIDIA Control Panel for optimal visual quality. The card supports resolutions up to 5K (5120 x 2880) at 60 Hz from a single cable.



Image: Side view of the PNY Quadro P400 Graphic Card, highlighting the three mini-DisplayPort outputs.

## MAINTENANCE

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- **Driver Updates:** Regularly check the NVIDIA website for the latest driver updates to ensure compatibility, performance improvements, and security patches.
- **Physical Cleaning:** Periodically clean dust from the graphics card fan and heatsink using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **System Ventilation:** Ensure adequate airflow within your computer case to prevent overheating, which can affect the card's performance and lifespan.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No display output	Card not seated correctly, incorrect display input, driver issue.	Reseat the card, check monitor input source, reinstall drivers. Ensure DisplayPort cables are used for optimal performance.
Bleached or faded colors on display	Using HDMI adapters instead of native DisplayPort connections.	Use native DisplayPort cables or high-quality DisplayPort to HDMI/DVI adapters. Avoid generic HDMI splitters or converters.
System instability or crashes	Outdated drivers, overheating, insufficient power.	Update drivers, ensure proper ventilation, verify power supply meets system requirements.
Only two monitors detected	Adapter incompatibility or driver settings.	Ensure all display connections are direct DisplayPort or high-quality active adapters. Check NVIDIA Control Panel for multi-display settings.

## SPECIFICATIONS

- **Model:** VCQP400V2-PB
- **Graphics Processor:** NVIDIA Quadro P400
- **GPU Architecture:** NVIDIA Pascal
- **Memory:** 2GB GDDR5
- **Memory Interface:** 64-bit
- **Display Connectors:** 3x mini-DisplayPort 1.4
- **Maximum Digital Resolution:** 5120 x 2880 at 60 Hz (single cable); 4096 x 2160 at 60Hz (three displays)
- **Form Factor:** Single Slot, Low Profile
- **Item Weight:** 13.1 ounces
- **Manufacturer:** PNY QUADRO
- **First Available Date:** January 24, 2020

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official PNY website or contact PNY customer service. Keep your purchase receipt as proof of purchase for warranty claims.

- **PNY Official Website:** [www.pny.com](http://www.pny.com)
- **Support Resources:** Driver downloads, FAQs, and contact information are available on the support section of the PNY website.

