

PNY VCG408016TFXMPB

PNY GeForce RTX 4080 16GB GDDR6X Graphics Card User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your PNY GeForce RTX 4080 16GB GDDR6X graphics card. Please read this manual thoroughly before installing and using the product to ensure proper functionality and safety.

The PNY GeForce RTX 4080 is a high-performance graphics processing unit (GPU) designed for desktop computers, offering advanced graphics capabilities for gaming, content creation, and other demanding applications.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the product or injury to yourself:

- **Static Electricity:** Always handle the graphics card by its edges and avoid touching the gold-plated connectors. Use an anti-static wrist strap or ground yourself by touching a metal object before handling the card.
- **Power Disconnection:** Ensure your computer is completely powered off and unplugged from the wall outlet before installing or removing the graphics card.
- **Ventilation:** Ensure adequate airflow within your computer case to prevent overheating.
- **Power Supply:** Verify that your power supply unit (PSU) meets the minimum wattage requirements for the graphics card and your system.
- **Physical Damage:** Do not apply excessive force when installing the card. Avoid bending or twisting the PCB (Printed Circuit Board).

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- PNY GeForce RTX 4080 Graphics Card
- User Manual (this document)

4. SPECIFICATIONS

The following table details the technical specifications of the PNY GeForce RTX 4080 graphics card:

Feature	Specification
Model Name	RTX 4080
Manufacturer Part Number	VCG408016TFXMPB
Graphics Coprocessor	NVIDIA GeForce RTX 4080
Graphics RAM Size	16 GB
Graphics RAM Type	GDDR6X
Effective Memory Clock	22.4 Gbps
Video Output Interface	3x DisplayPort, 1x HDMI
Graphics Card Interface	PCI-Express x16 4.0
Compatible Devices	Desktop Computer
CUDA Cores	9728
Max Resolution	7680 x 4320 Pixels
UPC	751492769271

5. SETUP AND INSTALLATION

5.1 Pre-installation Checklist

- **Power Supply:** Ensure your system's power supply unit (PSU) has sufficient wattage and the necessary PCIe power connectors (e.g., 12VHPWR or 8-pin PCIe connectors). Consult your PSU's documentation.
- **Motherboard:** Confirm your motherboard has an available PCI Express x16 4.0 slot.
- **Case Clearance:** Check that your computer case has enough physical space for the graphics card. Refer to the card's dimensions.
- **Tools:** You may need a Phillips head screwdriver.

5.2 Physical Installation

1. **Prepare Your System:** Turn off your computer completely and unplug the power cord from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. If replacing an old graphics card, carefully remove it.
4. **Remove Slot Covers:** Remove the necessary expansion slot covers from the back of your computer case that align with the chosen PCIe slot.
5. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is fully seated. You should hear a click as the retention clip engages.
6. **Secure Card:** Use screws to secure the graphics card to the computer case at the expansion slot bracket.
7. **Connect Power:** Connect the required PCIe power cables from your power supply to the graphics card. Ensure all connections are secure.



Image: Front view of the PNY GeForce RTX 4080 graphics card, showing the triple-fan cooling system and overall design.



Image: Backplate view of the PNY GeForce RTX 4080 graphics card, illustrating the protective metal backplate and ventilation cutouts.



Image: Input/Output (I/O) panel of the PNY GeForce RTX 4080 graphics card, showing three DisplayPort and one HDMI connector.

5.3 Driver Installation

1. **Close Case:** Replace the side panel of your computer case.
2. **Connect Peripherals:** Reconnect your monitor(s) to the graphics card's DisplayPort or HDMI outputs. Reconnect other peripherals and the power cord.
3. **Power On:** Turn on your computer.
4. **Download Drivers:** Once your operating system loads, navigate to the official NVIDIA website (www.nvidia.com/drivers) or the PNY support website. Download the latest drivers compatible with your operating system and the GeForce RTX 4080.
5. **Install Drivers:** Follow the on-screen instructions to install the drivers. A restart may be required after installation.

6. OPERATING

6.1 Connecting Displays

Connect your monitor(s) to the available DisplayPort or HDMI outputs on the graphics card. The card supports multiple displays simultaneously. Ensure your display cables are securely connected.

6.2 NVIDIA Control Panel

After driver installation, the NVIDIA Control Panel will be available. This software allows you to:

- Adjust display settings (resolution, refresh rate, color).
- Configure 3D settings for optimal game performance.
- Manage multiple displays.
- Monitor GPU status and temperatures.

Access the NVIDIA Control Panel by right-clicking on your desktop and selecting 'NVIDIA Control Panel'.

7. MAINTENANCE

7.1 Cleaning

Dust accumulation can hinder cooling performance. Periodically clean your graphics card:

- Power off and unplug your computer.
- Use compressed air to gently blow dust from the fans, heatsink fins, and other components. Hold the fans to prevent them from spinning rapidly during cleaning.
- Avoid using harsh chemicals or liquid cleaners directly on the card.

7.2 Driver Updates

Regularly check for and install the latest graphics drivers from NVIDIA. Driver updates often include performance improvements, bug fixes, and support for new games and applications.

8. TROUBLESHOOTING

If you encounter issues, try the following troubleshooting steps:

- **No Display Output:**
 - Ensure the monitor is connected to the graphics card, not the motherboard's integrated graphics ports.
 - Verify all power cables are securely connected to the graphics card and power supply.
 - Reseat the graphics card in its PCIe slot.
 - Test with a different monitor or cable if possible.
- **Driver Installation Issues:**
 - Download the latest drivers directly from the NVIDIA website.
 - Use a driver uninstaller utility (e.g., Display Driver Uninstaller - DDU) to remove old drivers before installing new ones.
- **Poor Performance or Crashes:**
 - Ensure your drivers are up to date.
 - Monitor GPU temperatures using software like MSI Afterburner or HWMonitor to check for overheating.
 - Verify your power supply meets the recommended wattage.
 - Check for background applications consuming system resources.
- **System Not Recognizing Card:**
 - Check your motherboard's BIOS/UEFI settings to ensure the correct primary graphics adapter is selected (PCIe).
 - Ensure the card is fully seated in the PCIe slot.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This PNY GeForce RTX 4080 graphics card comes with a **1-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation provided with your product or visit the official PNY website.

9.2 Technical Support

For further technical assistance, driver downloads, or troubleshooting not covered in this manual, please visit the official PNY support website or contact PNY customer service. You can typically find support contact information on the PNY website or on the product packaging.

