

## PNY VCNRTX2000ADA-PB

# PNY NVIDIA RTX 2000 Ada Generation Graphics Card User Manual

## INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your PNY NVIDIA RTX 2000 Ada Generation graphics card. The NVIDIA RTX 2000 Ada Generation brings the advanced Ada Lovelace architecture to professional users, offering enhanced performance, features, and 16GB of GPU memory. Its low-profile, dual-slot design ensures compatibility with a wide range of workstation systems.

## WHAT'S IN THE BOX

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Verify that all components are present in the package:

- PNY NVIDIA RTX 2000 Ada Generation Graphics Card
- Quick Start Guide
- MiniDisplayPort to DisplayPort Adapter
- Technical Assistance Guide

## SETUP

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### 1. System Requirements

- PCI Express x16 slot on the motherboard.
- Sufficient power supply (70W maximum power consumption, typically powered via PCIe slot).
- Compatible operating system (Windows, Linux).
- Minimum 16GB system memory recommended.

### 2. Physical Installation

1. **Power Off System:** Ensure your computer is completely powered off and unplugged from the wall outlet.
2. **Open Chassis:** Remove the side panel of your computer case to access the motherboard.

3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot. Remove any slot covers if necessary.
4. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. A click may be heard.
5. **Secure Card:** Fasten the graphics card to the chassis using the screw or retention clip provided by your computer case.
6. **Close Chassis:** Replace the computer case side panel.



Image: Angled view of the PNY NVIDIA RTX 2000 Ada Generation graphics card, highlighting its compact design, cooling fan, and four Mini DisplayPort outputs.



Image: Rear view of the PNY NVIDIA RTX 2000 Ada Generation graphics card, detailing the four Mini DisplayPort outputs and the ventilation grille for heat dissipation.

### 3. Connecting Displays

Connect your display(s) to the Mini DisplayPort outputs on the graphics card using the provided MiniDisplayPort to DisplayPort adapter or compatible cables. The card supports up to four displays simultaneously.

### 4. Driver Installation

1. **Power On System:** Reconnect the power cable and power on your computer.
2. **Download Drivers:** Visit the official NVIDIA website ([www.nvidia.com/drivers](http://www.nvidia.com/drivers)) or the PNY support page to download the latest drivers for the NVIDIA RTX 2000 Ada Generation.

3. **Install Drivers:** Follow the on-screen instructions to install the drivers. A system restart may be required.

## OPERATING

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### Basic Operation

Once drivers are installed, the graphics card will automatically manage display output and graphics processing. You can configure display settings, resolution, and multi-monitor setups through your operating system's display settings or the NVIDIA Control Panel.

### NVIDIA Control Panel

The NVIDIA Control Panel, installed with the drivers, provides advanced options for managing your graphics card, including:

- 3D Settings management for applications.
- Display resolution and refresh rate adjustments.
- Multiple display configuration (e.g., extended desktop, clone mode).
- Color settings and video adjustments.

## MAINTENANCE

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### Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your graphics card.

- **Dust Removal:** Periodically use compressed air to gently clear dust from the fan and heatsink fins. Ensure the system is powered off and unplugged before cleaning.
- **Fan Inspection:** Check the fan for any obstructions or unusual noises.

### Driver Updates

Keep your graphics drivers updated to ensure compatibility with the latest software, optimize performance, and benefit from security patches. Check the NVIDIA website regularly for new driver releases.

## TROUBLESHOOTING

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### No Display Output

- **Check Connections:** Ensure all display cables are securely connected to both the graphics card and the monitor.
- **Verify Power:** Confirm the graphics card is properly seated in the PCIe slot.
- **Monitor Input:** Ensure your monitor is set to the correct input source (e.g., DisplayPort).
- **Test with Another Display:** If possible, test with a different monitor or cable.

### Driver Issues

- **Reinstall Drivers:** Uninstall existing drivers using the operating system's device manager or a driver uninstaller utility, then perform a clean installation of the latest drivers from NVIDIA.
- **Check for Conflicts:** Ensure no other graphics drivers are installed that might conflict with the NVIDIA drivers.

## Performance Problems

- **Update Drivers:** Ensure you have the latest graphics drivers installed.
- **Monitor Temperatures:** Use monitoring software to check GPU temperatures. Excessive heat can lead to performance throttling. Ensure adequate case airflow.
- **System Resources:** Verify that your CPU and system RAM are not bottlenecks for the application or task.

## SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	NVIDIA Ada Generation
Graphics Memory	16GB GDDR6 with ECC
CUDA Cores	2816
Tensor Cores	88
Raytrace Cores	22
Interface	PCI Express 4.0 x16
Video Output Interface	4x Mini DisplayPort
Max Screen Resolution	7680x4320
GPU Clock Speed	2130 MHz
Form Factor	Dual Slot, Low Profile
Item Model Number	VGNRTX2000ADA-PB
Item Weight	1.34 pounds
Manufacturer	NVIDIA

## WARRANTY INFORMATION

This PNY NVIDIA RTX 2000 Ada Generation graphics card is covered by a manufacturer's warranty. Please refer to the warranty documentation included with your product or visit the official PNY website for detailed terms and conditions, including warranty duration and claim procedures. Keep your proof of purchase for warranty claims.

## SUPPORT

For technical assistance, driver downloads, or further product information, please visit the official PNY support website:

[www.pny.com/support](http://www.pny.com/support)

You may also consult the NVIDIA support resources for general graphics card and driver-related inquiries.

