

PNY 120150

PNY NVIDIA T400 Graphic Card User Manual

Model: 120150

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PNY NVIDIA T400 Graphic Card. The NVIDIA T400 is designed to deliver reliable 2D and 3D performance in a compact, low-profile form factor, suitable for a wide range of professional workstations. It features 4GB of GDDR6 memory and supports multiple displays, enhancing productivity for various applications.

2. PRODUCT FEATURES

The PNY NVIDIA T400 Graphic Card offers the following key features:

- **DirectCompute API Support:** Enables efficient work with D3D resources.
- **PCI Express 3.0 x16 Interface:** Provides high-speed data transfer for increased scalability.
- **4 GB GDDR6 Memory:** Efficiently handles highly-textured images and performs rendering at high speeds.
- **Low-Profile Form Factor:** Plug-in card design for convenience and compatibility with small form factor systems.
- **Active Cooler:** Ensures smooth and reliable heat dissipation to maintain optimal operating temperatures.
- **Multi-Monitor Support:** Capable of supporting up to four monitors simultaneously.

3. SETUP AND INSTALLATION

Follow these steps to properly install your PNY NVIDIA T400 Graphic Card:

1. Prepare Your System:

- Power off your computer and disconnect the power cable.
- Open the computer case. Refer to your computer's manual for specific instructions.
- Ground yourself to prevent electrostatic discharge (ESD) by touching a metal part of the computer chassis.

2. Remove Existing Graphics Card (if applicable):

- If an existing graphics card is installed, carefully unlatch any retention clips and remove it from the PCI Express slot.
- Remove any screws securing the card to the chassis.

3. Install the PNY NVIDIA T400:

- Locate an available PCI Express 3.0 x16 slot on your motherboard.
- Align the graphics card with the slot and press down firmly until it is securely seated. Ensure the retention clip locks into place.
- Secure the card to the computer chassis with a screw.



Image 1: PNY NVIDIA T400 Graphic Card. This image shows the overall view of the graphics card, highlighting its low-profile design and integrated fan cooler.

4. Close Case and Reconnect:

- Close the computer case.
- Reconnect the power cable and any other peripherals.
- Connect your display(s) to the Mini DisplayPort outputs on the graphics card.



Image 2: Mini DisplayPort Outputs. This image details the three Mini DisplayPort outputs on the card's bracket, labeled 1, 2, and 3, for connecting multiple displays.

5. Install Drivers:

- Power on your computer.
- Once the operating system loads, download the latest drivers for the NVIDIA T400 from the official NVIDIA website (www.nvidia.com/drivers).
- Follow the on-screen instructions to complete the driver installation. A system restart may be required.

4. OPERATING INSTRUCTIONS

After successful installation and driver setup, your PNY NVIDIA T400 Graphic Card is ready for use. Here are some operational guidelines:

• Display Configuration:

- Access your operating system's display settings or the NVIDIA Control Panel to configure display resolution, refresh rate, and multi-monitor setups.

- The T400 supports up to four displays simultaneously.
- **Performance Optimization:**
 - The NVIDIA Control Panel allows for fine-tuning graphics settings for specific applications or global performance.
 - Ensure your applications are configured to utilize the dedicated NVIDIA T400 GPU for optimal performance.
- **Driver Updates:**
 - Regularly check the official NVIDIA website for driver updates to ensure compatibility, performance improvements, and security patches.

5. MAINTENANCE

Proper maintenance can extend the lifespan and ensure optimal performance of your graphics card:

- **Dust Removal:**
 - Periodically clean dust from the fan and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
 - Hold the fan blades gently to prevent them from spinning rapidly during cleaning, which can damage the bearings.
- **Temperature Monitoring:**
 - Monitor GPU temperatures using system monitoring software to ensure it operates within safe limits. Excessive temperatures can indicate poor airflow or a need for cleaning.
- **Environmental Conditions:**
 - Operate the computer in a well-ventilated area to prevent heat buildup.
 - Avoid exposing the computer to extreme temperatures or humidity.

6. TROUBLESHOOTING

If you encounter issues with your PNY NVIDIA T400 Graphic Card, consider the following troubleshooting steps:

- **No Display Output:**
 - Ensure the display cables are securely connected to both the graphics card and the monitor.
 - Verify the monitor is powered on and set to the correct input source.
 - Check if the graphics card is properly seated in the PCI Express slot.
 - Try connecting to a different display output on the card or a different monitor.
- **Driver Issues:**
 - If you experience display artifacts, crashes, or poor performance, reinstall the latest drivers from the NVIDIA website.
 - Consider performing a clean installation of the drivers, which removes previous driver files.
- **System Instability or Crashes:**
 - Ensure your system's power supply unit (PSU) meets the minimum wattage requirements for your entire system, including the graphics card.
 - Check for overheating by monitoring GPU temperatures. Improve case airflow if necessary.

- **Low Performance:**
 - Verify that applications are using the dedicated NVIDIA T400 GPU and not integrated graphics.
 - Ensure all system drivers, including motherboard chipset drivers, are up to date.

7. SPECIFICATIONS

Detailed technical specifications for the PNY NVIDIA T400 Graphic Card (Model: 120150):

Feature	Specification
Brand	PNY
Model Number	120150
Graphics Coprocessor	NVIDIA T400
Graphics Processor Manufacturer	NVIDIA
Graphics Card Ram Size	4 GB GDDR6
Memory Speed	1755 MHz
Video Output Interface	Mini DisplayPort (x3)
Max Screen Resolution	7680x4320 Pixels
Card Description	Dedicated
Cooler Type	Active Cooler
Item Weight	13.7 ounces
Product Dimensions (LxWxH)	12.99 x 7.09 x 1.97 inches
Power Source	DC

8. WARRANTY AND SUPPORT

For warranty information and technical support regarding your PNY NVIDIA T400 Graphic Card, please refer to the official PNY website or contact your point of purchase. Specific warranty terms and conditions may vary by region and retailer.

For driver downloads and additional technical resources, visit the official NVIDIA website:

www.nvidia.com/support