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> PNY GeForce RTX™ 3080 10GB XLR8 Gaming Revel Epic-X RGB™ Triple Fan Graphics Card LHR Black Box Revel User Manual

PNY GMR3081N4KAGT3CKTP

PNY GeForce RTX™ 3080 10GB XLR8 Gaming Revel Epic-X RGB™ Triple Fan Graphics Card User Manual

Model: GMR3081N4KAGT3CKTP | Brand: PNY

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your PNY GeForce RTX™ 3080 10GB XLR8 Gaming Revel Epic-X RGB™ Triple Fan Graphics Card. This high-performance graphics card is designed to deliver exceptional visual fidelity and speed for demanding gaming and creative applications, leveraging NVIDIA's Ampere architecture with advanced Ray Tracing and Tensor Cores.



Figure 1: Front view of the PNY GeForce RTX 3080 Graphics Card, showcasing its triple-fan design and customizable RGB lighting.

SETUP

1. Physical Installation

- 1. Prepare your System:** Ensure your computer is powered off and unplugged from the wall outlet. Open your computer case.
- 2. Locate PCIe Slot:** Identify an available PCI Express 4.0 x16 slot on your motherboard.
- 3. Insert the Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Ensure the retention clip locks into place.

4. **Secure the Card:** Use screws to secure the graphics card to the computer case's expansion slot bracket.

2. Power Connection

The PNY GeForce RTX 3080 requires external power. Connect the appropriate PCIe power cables from your power supply unit (PSU) to the power connectors on the graphics card. Refer to your PSU's manual for correct cable identification.

3. Display Connection

Connect your display monitor(s) to the graphics card using DisplayPort or HDMI cables. The card supports multiple displays for an immersive experience.

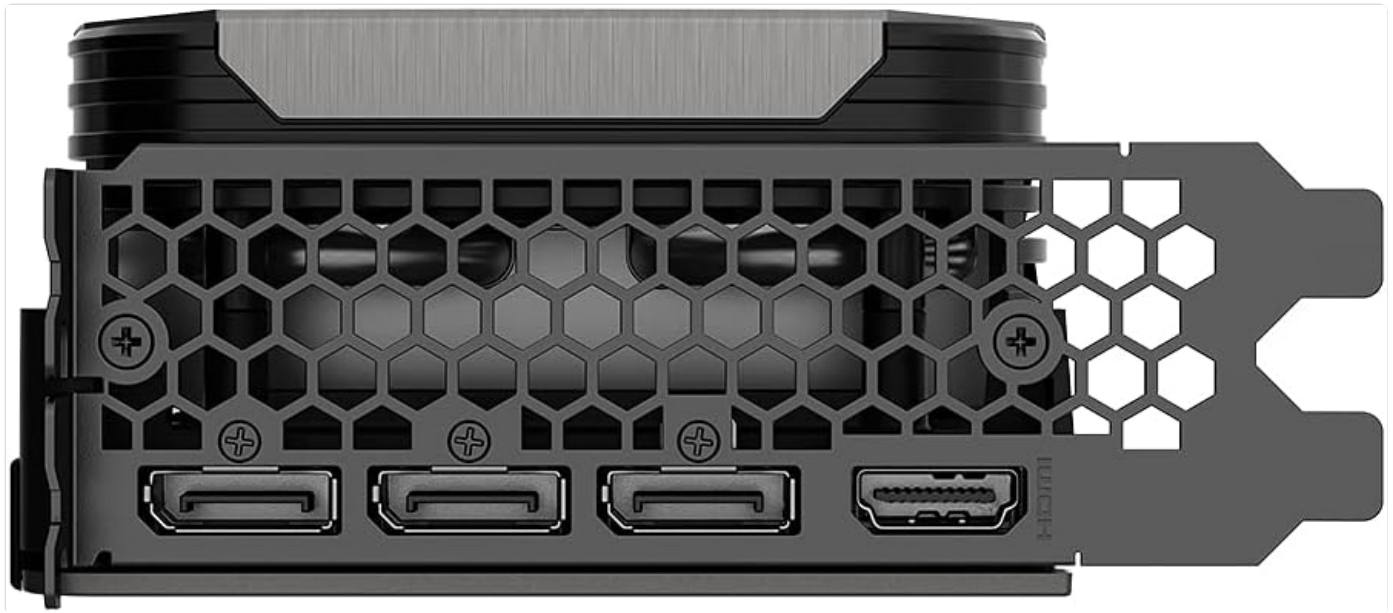


Figure 2: Rear view of the PNY GeForce RTX 3080 Graphics Card, showing the multiple DisplayPort and HDMI output connectors for display connectivity.

4. Driver Installation

1. **Power On:** Close your computer case and reconnect the power cable. Power on your computer.
2. **Install Drivers:** Once your operating system loads, download the latest NVIDIA GeForce drivers from the official NVIDIA website (www.nvidia.com/drivers). Follow the on-screen instructions for installation.
3. **NVIDIA GeForce Experience:** Consider installing NVIDIA GeForce Experience for optimal game settings, driver updates, and features like ShadowPlay.

OPERATING

The PNY GeForce RTX 3080 is engineered for high-performance computing, particularly in gaming and content creation. Its Ampere architecture, with enhanced RT Cores and Tensor Cores, provides real-time ray tracing and AI acceleration for realistic graphics and improved performance.

- **Gaming:** Experience ultra-performance in demanding titles with high frame rates and visual fidelity, even at 4K resolutions.
- **Content Creation:** Accelerate video editing, 3D rendering, and graphic design workflows with the powerful CUDA cores and dedicated AI processing.
- **Multi-Display Setup:** Utilize the multiple display outputs to create an expansive workspace or immersive gaming environment.
- **RGB Customization:** The EPIC-X RGB lighting can be customized to match your system's aesthetic. Refer to PNY's software utilities for control options.



Figure 3: Top view of the PNY GeForce RTX 3080 Graphics Card, highlighting the vibrant and customizable RGB lighting across its triple fans.

MAINTENANCE

- **Keep Drivers Updated:** Regularly check for and install the latest NVIDIA drivers to ensure optimal performance and compatibility.
- **Dust Removal:** Periodically clean dust from the graphics card fans and heatsink using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Temperature Monitoring:** Use monitoring software to keep an eye on the GPU temperature, especially during heavy loads, to prevent overheating.
- **Proper Airflow:** Ensure your PC case has adequate airflow to dissipate heat effectively from the graphics card.

TROUBLESHOOTING

If you encounter issues with your graphics card, consider the following common troubleshooting steps:

- **No Display Output:**
 - Ensure all power cables are securely connected to the graphics card and PSU.
 - Verify that the display cable is firmly connected to both the graphics card and the monitor.
 - Try a different display output port on the graphics card or a different cable.
 - Ensure the monitor is set to the correct input source.
- **Performance Issues / Low FPS:**
 - Ensure you have the latest graphics drivers installed.
 - Check for background applications consuming system resources.
 - Monitor GPU temperatures to ensure it's not thermal throttling.
 - Verify your system meets the recommended specifications for the game/application.
- **System Instability / Crashes:**
 - Ensure your PSU provides sufficient wattage for your entire system, including the graphics card.
 - Check for any loose connections inside the PC case.

- Run a memory diagnostic to rule out RAM issues.

For further assistance, refer to the official PNY support website or NVIDIA's support resources.

SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 3080
Graphics Card RAM Size	10 GB GDDR6X
Memory Speed	19 Gbps
Max Screen Resolution	7680 x 4320 @60Hz (Digital)
Video Output Interface	DisplayPort, HDMI
Item Model Number	GMR3081N4KAGT3CKTP
Item Weight	3.27 pounds
Product Dimensions (LxWxH)	14.8 x 8.3 x 4 inches

WARRANTY AND SUPPORT

PNY provides a warranty for its products. For detailed information regarding the warranty period, terms, and conditions for your PNY GeForce RTX™ 3080 graphics card, please refer to the official PNY website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

For technical support, driver downloads, and frequently asked questions, visit the official PNY support page or the PNY store on Amazon:

- PNY Store: <https://www.amazon.com/stores/PNY/page/BCB141F3-9478-4EE6-B726-F1940A838101>

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