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EVGA 08G-P4-2182-KR

EVGA GeForce RTX 2080 XC GAMING Graphics Card User Manual

Model: 08G-P4-2182-KR

Brand: EVGA

INTRODUCTION

The EVGA GeForce RTX 2080 XC GAMING graphics card is engineered to deliver exceptional gaming performance and visual fidelity. Powered by the NVIDIA Turing GPU architecture and the revolutionary NVIDIA RTX platform, this card integrates real-time ray tracing, artificial intelligence, and programmable shading to redefine the PC gaming experience. This manual provides essential information for the proper installation, operation, and maintenance of your graphics card.

WHAT'S IN THE BOX

- EVGA GeForce RTX 2080 XC GAMING Graphics Card
- Quick Guide
- EVGA Case Badge
- 6Pin(2) to 8 Pin Adapter

KEY FEATURES

- **Real Boost Clock:** 1800 MHz
- **Memory Detail:** 8192MB GDDR6
- **NVIDIA G-SYNC Compatible:** For smooth, tear-free gaming.
- **Dual HDB Fans:** New cooler design for higher performance cooling and quieter acoustic noise.
- **Adjustable RGB LED:** Offers configuration options for personalized PC lighting.
- **EVGA Precision X1:** Advanced tuning utility for monitoring and overclocking.

SETUP AND INSTALLATION

Pre-Installation Checklist

- Ensure your power supply unit (PSU) meets the minimum wattage requirements for the RTX 2080.
- Verify your motherboard has an available PCI Express x16 slot.
- Download the latest NVIDIA drivers for your operating system from the official NVIDIA website before physical installation.

Physical Installation

1. **Power Off:** Completely shut down your computer and disconnect the power cable 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. This is typically the longest slot.
4. **Remove Slot Covers:** Remove the metal slot covers from the back of your PC case that correspond to the PCI Express slot(s) the graphics card will occupy.
5. **Insert Graphics Card:** Carefully align the graphics card with the PCI Express slot and press down firmly until it is securely seated. You should hear a click from the retention clip.
6. **Secure Card:** Fasten the graphics card to the PC case using the screws removed earlier or the provided retention mechanism.
7. **Connect Power:** Connect the required 8-pin and/or 6-pin PCIe power cables from your PSU to the graphics card. Ensure all connections are firm.
8. **Close Case:** Replace the side panel of your computer case.
9. **Connect Display:** Connect your monitor(s) to the display outputs (DisplayPort or HDMI) on the graphics card.



Figure 1: Front view of the EVGA GeForce RTX 2080 XC GAMING Graphics Card.





Figure 2: Display output ports on the EVGA GeForce RTX 2080 XC GAMING Graphics Card.

Driver Installation

1. **Power On:** Reconnect the power cable and turn on your computer.
2. **Install Drivers:** Follow the on-screen instructions to install the NVIDIA graphics drivers you downloaded earlier. If you did not download them beforehand, your operating system may install generic drivers, allowing you to access the internet to download the official NVIDIA drivers.
3. **Restart:** Restart your computer after the driver installation is complete.

Video 1: Demonstration of GPU installation into an external GPU enclosure, showcasing the physical handling and

OPERATING INSTRUCTIONS

EVGA Precision X1 Software

EVGA Precision X1 is a powerful utility designed to monitor and optimize your EVGA GeForce RTX 2080 XC GAMING graphics card. It allows you to:

- Monitor GPU clock speed, memory clock, temperature, and fan speed.
- Overclock your GPU for enhanced performance.
- Adjust fan curves for optimal cooling and noise levels.
- Customize the RGB LED lighting on your graphics card.

Download the latest version of EVGA Precision X1 from the official EVGA website.

Video 2: A user demonstrates the EVGA GeForce RTX 2080 XC GAMING graphics card and its functionality with the Precision X1 software.

MAINTENANCE

- **Dust Removal:** Regularly clean the fans and heatsink of your graphics card using compressed air to prevent dust buildup, which can hinder cooling performance. Ensure the PC is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your graphics drivers updated to ensure optimal performance, stability, and compatibility with the latest games and applications. Check the NVIDIA website periodically for new driver releases.
- **Software Monitoring:** Use EVGA Precision X1 or similar monitoring software to keep an eye on your GPU's temperatures and performance metrics.

TROUBLESHOOTING

- **No Display:**
 - Ensure the monitor cable is securely connected to the graphics card and the monitor.
 - Verify that the graphics card is fully seated in the PCIe slot and all power cables are connected.
 - Test with a different display cable or monitor if possible.
- **Performance Issues/Low FPS:**
 - Ensure you have the latest graphics drivers installed.
 - Check in-game graphics settings and adjust them as needed.
 - Monitor GPU usage and temperature using EVGA Precision X1 to identify potential bottlenecks or thermal throttling.
- **Overheating:**
 - Ensure proper airflow within your PC case.
 - Clean dust from the graphics card fans and heatsink.
 - Adjust fan curves using EVGA Precision X1 for more aggressive cooling.

SPECIFICATIONS

Feature	Detail
Brand	EVGA
Series	EVGA GeForce RTX 2080 XC GAMING
Item Model Number	08G-P4-2182-KR
Graphics Coprocessor	NVIDIA GeForce RTX 2080
Chipset Brand	NVIDIA
Graphics Card RAM Size	8 GB GDDR6
Memory Speed	14000 MHz
Real Boost Clock	1800 MHz
Max Screen Resolution	8K UHD
Video Output Interface	HDMI, DisplayPort
Item Weight	2.36 pounds
Product Dimensions	4.5 x 10.6 x 1.57 inches
Operating System	Windows 10 64bit, Windows 7 64bit

WARRANTY AND SUPPORT

For warranty information, technical support, and additional resources, please visit the official EVGA website or contact EVGA customer service. Keep your purchase receipt as proof of purchase for warranty claims.

[Visit the EVGA Store for more information](#)