

EVGA 08G-P4-3188-KR

EVGA GeForce RTX 2080 Super XC Hybrid Gaming Graphics Card User Manual

Model: 08G-P4-3188-KR | Brand: EVGA

1. PRODUCT OVERVIEW

The EVGA GeForce RTX 2080 Super XC Hybrid Gaming graphics card is engineered with NVIDIA Turing architecture, providing advanced graphics processing capabilities. This model features a hybrid cooling solution for efficient thermal management, ensuring stable performance during demanding operations. It supports real-time Ray Tracing, artificial intelligence, and programmable shading, designed to enhance visual fidelity and computing experiences.



Figure 1.1: Front view of the EVGA GeForce RTX 2080 Super XC Hybrid Gaming graphics card.

2. PACKAGE CONTENTS

Verify that all components are present in the package before proceeding with installation. The standard package for the EVGA GeForce RTX 2080 Super XC Hybrid Gaming graphics card includes:

- EVGA GeForce RTX 2080 Super XC Hybrid Gaming Graphics Card with integrated liquid cooler
- User Manual (this document)



Figure 2.1: Graphics card and its separate radiator/fan unit.

3. SYSTEM REQUIREMENTS

Before installation, ensure your system meets the following minimum requirements:

- **Motherboard:** PCI-Express x16 slot
- **Power Supply:** Minimum 650W power supply with appropriate 8-pin and 6-pin PCIe power connectors. A higher wattage PSU is recommended for optimal system stability and overclocking.
- **Operating System:** Microsoft Windows 10 (64-bit) or later, Linux (64-bit)
- **System Memory:** 8GB RAM (16GB recommended)

- **Available Drive Space:** 1.5GB for driver installation
- **Case Compatibility:** Sufficient space for the graphics card and the 120mm radiator/fan unit.

4. INSTALLATION GUIDE

Follow these steps carefully to install your EVGA GeForce RTX 2080 Super XC Hybrid Gaming graphics card.

4.1. Preparation

1. **Power Off:** Shut down your computer and disconnect the power cable from the wall outlet.
2. **Open Case:** Remove the side panel of your computer case.
3. **Static Discharge:** Ground yourself by touching a metal part of the computer chassis to discharge any static electricity.
4. **Locate PCIe Slot:** Identify an available PCI-Express x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.

4.2. Graphics Card Installation

5. **Insert Card:** Carefully align the graphics card with the PCI-Express x16 slot. Press down firmly and evenly until the card is fully seated in the slot. Ensure the retention clip on the slot locks into place.
6. **Secure Card:** Secure the graphics card to the chassis with the screws removed earlier.
7. **Connect Power:** Connect the required 8-pin and 6-pin PCIe power cables from your power supply to the corresponding ports on the graphics card. Ensure connections are secure.



Figure 4.1: Graphics card with its liquid cooling tubes and radiator.

4.3. Radiator and Fan Installation

The hybrid cooling system requires the radiator and fan to be mounted in your computer case.

8. **Mount Radiator:** Identify a suitable 120mm fan mounting location in your case (e.g., rear exhaust, top exhaust). Mount the radiator and fan using the provided screws. Ensure the fan is oriented to exhaust air out of the case for optimal cooling.
9. **Cable Management:** Route the liquid cooling tubes and fan cables to avoid interference with other components or case fans.



Figure 4.2: Graphics card and radiator assembly, showing tube routing.

4.4. Final Steps

10. **Close Case:** Reattach the side panel of your computer case.
11. **Connect Display:** Connect your display cable (HDMI, DisplayPort, or USB-C) to the appropriate output port on the graphics card.
12. **Power On:** Reconnect the power cable to the wall outlet and power on your computer.

5. OPERATING INSTRUCTIONS

5.1. Driver Installation

After physical installation, the graphics card requires appropriate drivers for full functionality.

1. **Download Drivers:** Visit the official NVIDIA website (www.nvidia.com/drivers) or the EVGA support page (www.evga.com/support/download/) to download the latest drivers for your GeForce RTX 2080 Super graphics card.
2. **Install Drivers:** Run the downloaded driver installer and follow the on-screen prompts. A system restart may be required.

5.2. EVGA Precision X1 Software

EVGA Precision X1 is a utility designed for monitoring and optimizing your EVGA graphics card. It allows for real-time monitoring of clock speeds, temperatures, and fan speeds, as well as overclocking and RGB LED control.

- **Download:** Download EVGA Precision X1 from the official EVGA website.
- **Installation:** Install the software by following the provided instructions.
- **Usage:** Refer to the Precision X1 software documentation for detailed instructions on its features and

usage.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your graphics card.

- **Dust Removal:** Periodically clean the radiator fins and fan blades to prevent dust buildup, which can impede cooling performance. Use compressed air for this purpose. Ensure the system is powered off and unplugged before cleaning.
- **Cable Inspection:** Check all power and display cables for secure connections.
- **Software Updates:** Keep your graphics drivers and EVGA Precision X1 software updated to benefit from performance improvements and bug fixes.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

7.1. No Display Output

- **Check Connections:** Ensure the display cable is securely connected to both the graphics card and the monitor. Verify that the PCIe power cables are fully seated in the graphics card.
- **Monitor Input:** Confirm your monitor is set to the correct input source (HDMI, DisplayPort, etc.).
- **Reseat Card:** Power off the system, unplug it, and reseat the graphics card in its PCI-Express slot.

7.2. Performance Issues or System Instability

- **Driver Update:** Ensure you have the latest graphics drivers installed.
- **Temperature Monitoring:** Use EVGA Precision X1 or similar software to monitor GPU temperatures. High temperatures can lead to performance throttling. Ensure proper airflow in your case and clean the radiator/fan if necessary.
- **Power Supply:** Verify your power supply meets the minimum wattage requirement and is providing stable power.

7.3. Pump Noise

Some users may experience minor pump noise. This can sometimes be mitigated by ensuring the radiator is mounted above the graphics card, allowing any air bubbles to settle in the radiator rather than the pump.

- **Radiator Placement:** If possible, mount the radiator in a position higher than the graphics card.
- **System Orientation:** Ensure the computer case is in a stable, upright position.

8. SPECIFICATIONS

Key technical specifications for the EVGA GeForce RTX 2080 Super XC Hybrid Gaming graphics card:

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 2080 Super
Model Name	EVGA GeForce RTX 2080 Super XC Hybrid Gaming

Feature	Specification
Model Number	08G-P4-3188-KR
Graphics RAM Size	8 GB GDDR6
Memory Clock Speed	15500 MHz
Real Boost Clock	1830 MHz
Video Output Interface	HDMI, DisplayPort, USB-C
Graphics Card Interface	PCI-Express x16
Display Resolution Maximum	4K
Number of Fans	1 (on radiator)
Item Weight	4.6 Pounds





Figure 8.1: Available display output ports on the graphics card.

9. WARRANTY AND SUPPORT

9.1. Warranty Information

This product is covered by a **3-year manufacturer's warranty**. For detailed terms and conditions, please refer to the official EVGA warranty policy available on their website.

9.2. Technical Support

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

www.evga.com/support/

You may also contact EVGA customer service directly through the contact methods provided on their support page.

