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EVGA 08G-P4-3287-KR

EVGA GeForce RTX 2080 Super FTW3 Ultra Graphics Card User Manual

Model: 08G-P4-3287-KR

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1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your EVGA GeForce RTX 2080 Super FTW3 Ultra graphics card. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.



Figure 1: EVGA GeForce RTX 2080 Super FTW3 Ultra Graphics Card

The EVGA GeForce RTX 2080 Super FTW3 Ultra is a high-performance graphics card designed for gaming and demanding graphical applications. It features the NVIDIA Turing architecture, offering real-time ray tracing, AI capabilities, and programmable shading for enhanced visual experiences.

2. SAFETY INFORMATION

Observe the following safety guidelines during installation and operation:

- Always disconnect power from your computer before installing or removing any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.
- Handle the graphics card by its edges to avoid touching sensitive components.
- Ensure adequate ventilation within your computer case to prevent overheating.
- Do not expose the graphics card to moisture or extreme temperatures.

3. SETUP

3.1 System Requirements

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

- PCI Express-compliant motherboard with one dual-width x16 graphics slot.
- Minimum 650W power supply with two 8-pin PCIe power connectors.
- Minimum 8GB system RAM (16GB recommended).
- Microsoft Windows 10 64-bit, Windows 7 64-bit, or Linux 64-bit operating system.
- Internet connection for driver installation.

3.2 Physical Installation

Follow these steps to install your graphics card:

1. **Prepare your system:** Power off your computer and disconnect all cables. Open your computer case.
2. **Locate a PCI Express x16 slot:** Identify an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.
3. **Install 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 on the motherboard engages.



Figure 2: Graphics Card Installation

4. **Secure the card:** Use screws to secure the graphics card to the computer case at the expansion slot bracket.
5. **Connect power cables:** Connect two 8-pin PCIe power connectors from your power supply to the corresponding ports on the top edge of the graphics card.



Figure 3: Power Connector Location

6. **Connect display cables:** Connect your monitor(s) to the display outputs on the graphics card (DisplayPort or HDMI).



Figure 4: Display Output Ports

7. **Close the case and reconnect:** Close your computer case, reconnect all external cables, and power on your system.

3.3 Driver Installation

After physical installation, install the latest NVIDIA drivers:

1. Boot into your operating system.
2. Download the latest drivers for your GeForce RTX 2080 Super from the official NVIDIA website

(www.nvidia.com/drivers).

3. Follow the on-screen instructions to complete the driver installation. A system restart may be required.

4. OPERATION

4.1 Basic Functionality

Once drivers are installed, your graphics card will automatically handle display output and accelerate graphics processing for applications and games. Ensure your monitor is connected to the graphics card, not the motherboard's integrated graphics ports (if applicable).

4.2 EVGA Precision X1 Software

For advanced control and monitoring, EVGA Precision X1 software is recommended. This utility allows you to:

- Monitor GPU temperature, clock speeds, and fan speeds.
- Adjust fan curves for customized cooling performance.
- Manage RGB lighting effects.
- Perform minor overclocking for increased performance.

Download EVGA Precision X1 from the official EVGA website (www.evga.com/precisionx1/).

4.3 Key Features

- **Real-time Ray Tracing:** Experience hyper-realistic graphics with hardware-accelerated ray tracing.
- **DLSS (Deep Learning Super Sampling):** AI-powered rendering technology that boosts frame rates while generating sharp images.
- **Adjustable RGB Lighting:** Customize the card's integrated RGB lighting to match your system's aesthetic.
- **iCX2 Cooling:** Advanced cooling solution with multiple sensors and asynchronous fans for efficient heat dissipation.

5. MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from the heatsink fins and fan blades using compressed air. Ensure the fans are held stationary during cleaning to prevent damage.
- **Driver Updates:** Keep your graphics drivers updated by regularly checking the NVIDIA website for new releases.
- **Fan Curve Optimization:** Use EVGA Precision X1 to set a custom fan curve that balances cooling performance and noise levels according to your preference. The default 'eco-mode' may keep fans off until 50°C.
- **System Ventilation:** Ensure your computer case has good airflow to prevent heat buildup, which can affect graphics card performance and lifespan.

6. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Display Output:**
 - Ensure the monitor cable is securely connected to the graphics card.
 - Verify that the graphics card is fully seated in the PCIe slot.
 - Check that all PCIe power connectors are properly attached to the graphics card.
 - Test with a different display cable or monitor if possible.

- **System Instability/Crashes:**

- Ensure your power supply meets the minimum wattage requirement.
- Update your graphics drivers to the latest version.
- Monitor GPU temperatures using EVGA Precision X1 to check for overheating.
- If overclocked, revert to default settings.

- **Poor Performance in Games:**

- Ensure you have the latest graphics drivers installed.
- Check in-game graphics settings; reduce settings if necessary.
- Verify that your system meets the game's recommended specifications.
- Monitor GPU utilization and clock speeds to ensure the card is boosting correctly.

- **Fan Noise:**

- Adjust fan curves using EVGA Precision X1 to find a balance between cooling and noise.
- Clean dust from the fans and heatsink.

For further assistance, refer to the EVGA support website or contact their technical support.

7. SPECIFICATIONS

Feature	Detail
Model Number	08G-P4-3287-KR
Graphics Coprocessor	NVIDIA GeForce RTX 2080 Super
Boost Clock	1845 MHz
Memory Detail	8192 MB GDDR6
Memory Speed	15500 MHz
RAM Size	8 GB
Video Output Interface	HDMI, DisplayPort
Item Weight	3.31 pounds (1.5 kg)
Product Dimensions (LxWxH)	11.89 x 2.68 x 5.48 inches (30.2 x 6.8 x 13.9 cm)
Cooling	2.75 Slot Extreme Cool Triple + iCX2
Features	Real-time Ray Tracing, Adjustable RGB, Metal Backplate

8. WARRANTY & SUPPORT

8.1 Warranty Information

EVGA products are covered by a limited warranty. The specific terms and duration of your warranty may vary by region and product. Please register your product on the official EVGA website to activate your warranty and access detailed information.

For complete warranty details, visit: www.evga.com/warranty/

8.2 Technical Support

If you require technical assistance or have questions not covered in this manual, please contact EVGA support:

- **EVGA Support Website:** www.evga.com/support/
- **Phone Support:** Refer to the EVGA website for regional contact numbers.
- **Knowledge Base:** Access FAQs and troubleshooting guides online.

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