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> EVGA GeForce RTX 3080 Ti XC3 ULTRA HYBRID GAMING Graphics Card User Manual

EVGA 12G-P5-3958-KR

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Model: 12G-P5-3958-KR

1. PRODUCT OVERVIEW

The EVGA GeForce RTX 3080 Ti XC3 ULTRA HYBRID GAMING graphics card is a high-performance component designed for advanced computing tasks, including gaming and content creation. This card features 12GB of GDDR6X memory and utilizes a hybrid cooling solution, combining air and liquid cooling for efficient thermal management.



Image: The EVGA GeForce RTX 3080 Ti XC3 ULTRA HYBRID GAMING graphics card, showcasing the main card unit connected to its 240mm radiator with two cooling fans.

2. KEY FEATURES

- **Graphics Processor:** NVIDIA GeForce RTX 3080 Ti.
- **Memory:** 12288 MB GDDR6X.
- **Boost Clock:** 1725 MHz.
- **Cooling System:** Hybrid cooling with a 240mm radiator and dual fans for efficient heat dissipation.
- **Backplate:** All-metal backplate for structural rigidity and improved cooling.
- **Lighting:** Adjustable ARGB LED lighting.
- **Ray Tracing:** Real-Time Ray Tracing capabilities for enhanced visual fidelity in supported applications.
- **Software Support:** Compatible with EVGA Precision X1 for monitoring and customization.



Image: The graphics card with its integrated ARGB LED lighting active, displaying a colorful illumination along the side.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and system stability. Ensure your system meets the minimum power supply and case clearance requirements before proceeding.

3.1. Pre-Installation Checklist

- Ensure your computer is powered off and unplugged from the wall outlet.
- Ground yourself to prevent electrostatic discharge (ESD).
- Confirm your motherboard has an available PCI-Express x16 slot.
- Verify your power supply unit (PSU) has sufficient wattage and the necessary PCIe power connectors.
- Check your PC case for adequate space for both the graphics card and the 240mm radiator.

3.2. Hardware Installation

1. Open your computer case.
2. Locate an empty PCI-Express x16 slot on your motherboard.
3. Remove any expansion slot covers that obstruct the installation.
4. 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.
5. Secure the graphics card to the case with screws.
6. Mount the 240mm radiator to an available fan mount location in your case (e.g., front, top, or rear), ensuring optimal airflow.
7. Connect the required PCIe power cables from your PSU to the graphics card. This model typically requires multiple 8-pin or 6+2-pin connectors.
8. Connect the radiator fans and pump power cables to appropriate headers on your motherboard or a fan controller.

9. Close your computer case.

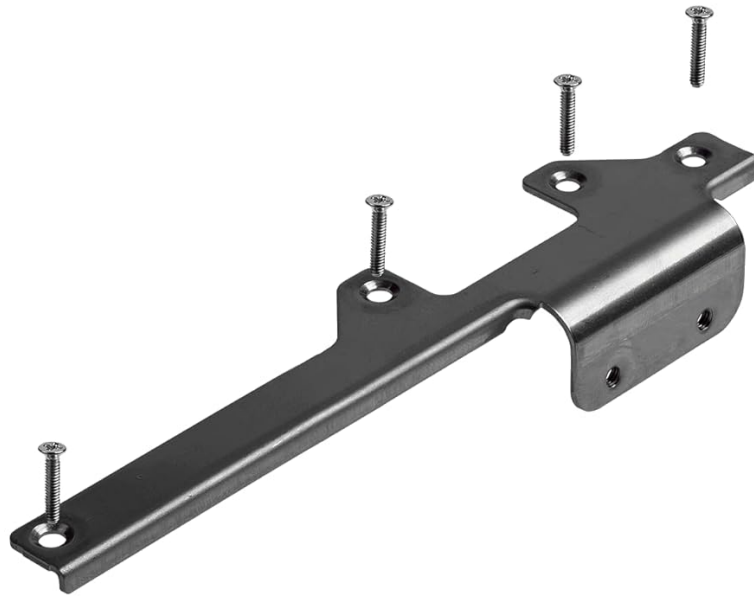


Image: An installation guide cover for EVGA GeForce graphics cards, showing a metal support bracket and mounting screws, indicating components for secure installation.

3.3. Driver Installation

1. Connect your display cable (HDMI or DisplayPort) to the graphics card.
2. Power on your computer.
3. Download the latest NVIDIA drivers for your GeForce RTX 3080 Ti from the official NVIDIA website.
4. Install the drivers following the on-screen instructions. A clean installation is recommended.
5. Consider installing EVGA Precision X1 software for advanced monitoring, overclocking, and ARGB lighting control. This software can be downloaded from the EVGA website.





Image: The rear panel of the graphics card, featuring multiple DisplayPort and HDMI outputs for connecting to displays.

4. OPERATING INSTRUCTIONS

Once installed and drivers are updated, your EVGA GeForce RTX 3080 Ti is ready for use. The card will automatically manage its clock speeds and cooling based on workload.

4.1. Display Connection

Connect your monitor(s) to the available DisplayPort or HDMI outputs on the graphics card. This card supports a maximum resolution of 7680x4320 pixels.

4.2. Software Control (EVGA Precision X1)

EVGA Precision X1 allows you to:

- Monitor GPU temperature, clock speeds, and fan speeds.
- Adjust fan curves for customized cooling performance.
- Overclock the GPU for increased performance (use with caution).
- Customize the ARGB LED lighting effects and colors on the card.

5. MAINTENANCE

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

- **Dust Removal:** Periodically clean the radiator fins and fans to prevent dust buildup, which can impede airflow and cooling efficiency. Use compressed air for this task.
- **Cable Management:** Ensure that the liquid cooling tubes are not kinked or obstructed, and that all power and data cables are neatly routed to allow for proper airflow within the case.
- **Software Updates:** Keep your graphics drivers and EVGA Precision X1 software updated to benefit from performance improvements and bug fixes.

6. TROUBLESHOOTING

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

6.1. No Display Output

- Ensure the display cable is securely connected to both the graphics card and the monitor.
- Verify that the monitor is powered on and set to the correct input source.
- Check that the graphics card is fully seated in the PCIe slot and that all power cables are connected.
- Try connecting to a different display output port on the card or using a different cable.

6.2. Performance Issues / Overheating

- Ensure your graphics drivers are up to date.
- Monitor GPU temperatures using EVGA Precision X1 or similar software. High temperatures can lead to performance throttling.
- Check for dust buildup on the radiator and fans. Clean if necessary.
- Verify that the radiator fans are spinning correctly.
- Ensure adequate airflow within your PC case.

6.3. ARGB Lighting Not Working

- Ensure EVGA Precision X1 software is installed and running.

- Check the ARGB settings within Precision X1 to ensure lighting is enabled and configured as desired.
- Verify that any necessary ARGB cables are properly connected.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 3080 Ti
Brand	EVGA
Graphics RAM Size	12 GB
Video Output Interface	DisplayPort, HDMI
Graphics Processor Manufacturer	NVIDIA
Graphics RAM Type	GDDR6X
Compatible Devices	Desktop
Graphics Card Interface	PCI-Express x16
Memory Clock Speed	19000 MHz
Number of Fans	3 (2 on radiator, 1 on card)
GPU Series	NVIDIA RTX 30 Series
Display Maximum Resolution	7680 x 4320
Model Number	12G-P5-3958-KR
Item Weight	1.8 Pounds

8. WARRANTY AND SUPPORT

This EVGA graphics card comes with a **3-year manufacturer warranty**. For technical assistance, warranty claims, or further support, please visit the official EVGA website or contact their customer service directly.

EVGA Support: <https://www.evga.com/support/>