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EVGA 12G-P5-3955-KR

EVGA GeForce RTX 3080 Ti XC3 Ultra Gaming Graphics Card User Manual

Model: 12G-P5-3955-KR

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your EVGA GeForce RTX 3080 Ti XC3 Ultra Gaming graphics card. Please read this guide thoroughly before proceeding with installation to ensure optimal performance and longevity of your product.

2. PRODUCT OVERVIEW

The EVGA GeForce RTX 3080 Ti XC3 Ultra Gaming graphics card is engineered for high-performance gaming and demanding creative tasks. It features 12GB of GDDR6X memory and is built upon the NVIDIA Ampere architecture, offering advanced technologies like Real-Time Ray Tracing and NVIDIA DLSS for hyper-realistic graphics and accelerated frame rates. The iCX3 Cooling system ensures efficient thermal management, while the adjustable ARGB LED and all-metal backplate provide a premium aesthetic.



Figure 1: Front view of the EVGA GeForce RTX 3080 Ti XC3 Ultra Gaming graphics card, showcasing its triple-fan design.

3. SETUP & INSTALLATION

3.1. Pre-Installation Checklist

- Ensure your power supply unit (PSU) meets the minimum requirement of 350 watts.
- Verify your PSU has two available 8-pin PCIe power connectors.
- Ensure your motherboard has an available PCI Express Gen 4 x16 slot.
- Power off your computer and disconnect all power cables before installation.

3.2. Physical Installation

1. Open your computer case and locate an available PCI Express x16 slot on your motherboard.
2. Remove any expansion slot covers that correspond to the graphics card's size (this card occupies 2.2 slots).
3. Carefully align the graphics card with the PCIe slot and firmly press it down until it is securely seated.
4. Secure the graphics card to the computer case using screws on the expansion slot bracket.
5. Connect two 8-pin PCIe power cables from your power supply to the corresponding ports on the graphics card.

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Video 1: Watch a demonstration of the RTX 3080 graphics card unboxing and installation process.



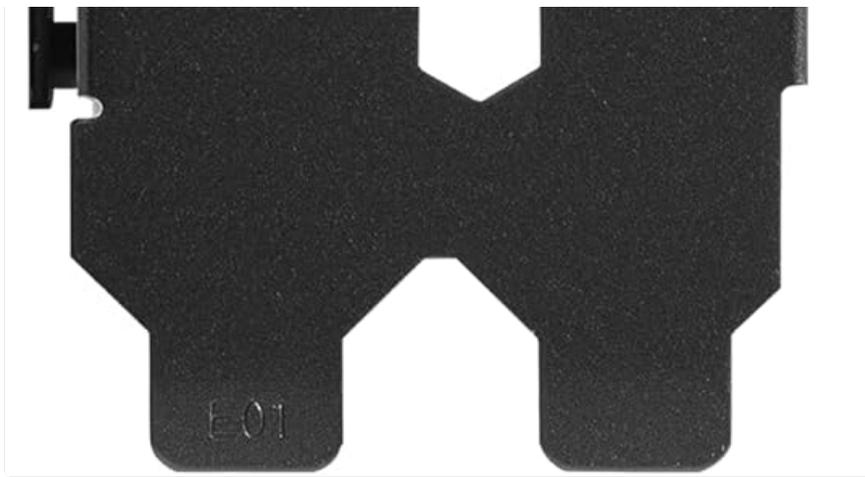


Figure 2: Display output ports on the graphics card, including HDMI and DisplayPort connectors.

3.3. Driver Installation

After physical installation, power on your computer. Download the latest NVIDIA GeForce drivers from the official NVIDIA website. Follow the on-screen instructions to complete the driver installation. It is recommended to perform a clean installation to avoid potential conflicts.

4. OPERATING INSTRUCTIONS

4.1. iCX3 Cooling Technology

The iCX3 Cooling system features triple fans designed to optimize airflow, increase cooling performance, and reduce acoustic noise. Smart cut-outs in the PCB and backplate further improve airflow and reduce exhaust recovery, ensuring your card stays cool under load.

FEATURES		SPECIFICATIONS
EVGA iCX3 Cooling	NVIDIA G-SYNC®	Boost Clock: 1725 MHz
Adjustable ARGB LED	NVIDIA GPU Boost™	Memory Clock: 19000 MHz Effective
All-Metal Backplate, Pre-Installed	Game Ready Drivers	CUDA Cores: 10240
Built for EVGA Precision X1	Vulkan RT API, OpenGL 4.6	Bus Type: PCIe 4.0
2nd Gen Ray Tracing Cores	DisplayPort 1.4a	Memory Detail: 12288MB GDDR6X
3rd Gen Tensor Cores	7th Gen NVIDIA Encoder	Memory Bit Width: 384 Bit
PCI Express® Gen 4	5th Gen NVIDIA Decoder	Memory Bandwidth: 912 GB/s
Microsoft DirectX® 12 Ultimate	HDCP 2.3	
GDDR6X Graphics Memory	VR Ready	DIMENSIONS
NVIDIA DLSS	Supports 4K 120Hz HDR, 8K 60Hz HDR and	Height: 4.38 in - 111.15mm
NVIDIA® GeForce Experience™	Variable Refresh Rate as specified in HDMI 2.1	Length: 11.23 in - 285.37mm
		Width: 2.2 Slots

Figure 3: Diagram illustrating the iCX3 Interactive Cooling system with triple fans and optimized airflow.

4.2. Adjustable ARGB LED

The graphics card features adjustable ARGB LED lighting. You can customize lighting effects and colors using EVGA's Precision X1 software. This allows for personalization to match your system's aesthetic.



Figure 4: Top view of the graphics card with ARGB LED lighting activated.

4.3. NVIDIA Technologies

- **Real-Time Ray Tracing:** Experience cutting-edge, hyper-realistic graphics in supported games.
- **NVIDIA DLSS:** AI-powered rendering that boosts frame rates with uncompromised image quality.
- **NVIDIA G-SYNC:** Enjoy smooth, tear-free gameplay at high refresh rates.
- **NVIDIA GPU Boost:** Dynamically maximizes clock speeds based on workload and temperature.

5. MAINTENANCE

- Regularly clean dust from the graphics card fans and heatsink using compressed air to maintain optimal cooling performance.
- Ensure adequate airflow within your computer case to prevent heat buildup.
- Keep drivers updated to the latest version for best performance and stability.

6. TROUBLESHOOTING

- **No Display Output:** Ensure the graphics card is fully seated in the PCIe slot and all power cables are securely connected. Verify your monitor is connected to the graphics card and not the motherboard's integrated graphics.
- **Overheating:** Check for proper airflow in your case. Ensure fans are spinning correctly. Consider adjusting fan curves using EVGA Precision X1 software.
- **Driver Issues:** Perform a clean reinstallation of the latest NVIDIA drivers. If problems persist, try an older stable driver version.
- **Performance Issues:** Ensure your system meets the minimum requirements for the games/applications you are running. Check for background processes consuming resources.

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7. SPECIFICATIONS

Feature	Detail
Graphics Coprocessor	NVIDIA GeForce RTX 3080 Ti
Memory	12 GB GDDR6X
Boost Clock	1725 MHz
Memory Speed	19000 GHz
Max Screen Resolution	7680x4320 Pixels
Video Output Interface	HDMI, DisplayPort
Item Weight	3.52 pounds
Product Dimensions	14.9 x 8.8 x 3.8 inches

8. WARRANTY & SUPPORT

The EVGA GeForce RTX 3080 Ti XC3 Ultra Gaming graphics card comes with a 3-year warranty. For technical assistance, product registration, or warranty claims, please visit the official EVGA website or contact EVGA's technical support team.

For additional resources and support, please visit: www.evga.com