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> EVGA GeForce RTX 3060 Ti XC Gaming Graphics Card Instruction Manual

EVGA 08G-P5-3663-KL

EVGA GeForce RTX 3060 Ti XC Gaming Graphics Card Instruction Manual

Brand: EVGA | Model: 08G-P5-3663-KL

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your EVGA GeForce RTX 3060 Ti XC Gaming graphics card. Designed for high-performance gaming and creative applications, this card features NVIDIA's Ampere architecture, real-time ray tracing, and AI-powered DLSS for an enhanced visual experience. Please read this guide thoroughly before proceeding with installation or use.

KEY FEATURES

- **NVIDIA Ampere Architecture:** Features 2nd generation Ray Tracing Cores and 3rd generation Tensor Cores for advanced graphics and AI capabilities.
- **8GB GDDR6 Memory:** High-speed memory for demanding games and applications.
- **Real Boost Clock:** 1710 MHz for optimal performance.
- **All-Metal Backplate:** Provides structural rigidity and aids in cooling.
- **Dual Fan Cooling:** Efficient cooling solution for sustained performance.
- **PCI Express x16 Interface:** Ensures high-bandwidth connectivity with your motherboard.
- **Output Interfaces:** Multiple HDMI and DisplayPort connections for versatile display setups.

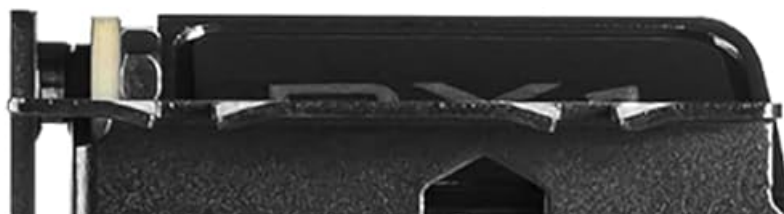
PRODUCT OVERVIEW



Front View: The EVGA GeForce RTX 3060 Ti XC Gaming graphics card showcasing its dual fan design and sleek black shroud.



Angled View: An angled perspective of the graphics card, highlighting its compact form factor and dual cooling fans.





Display Outputs: Close-up of the card's I/O bracket, featuring multiple DisplayPort and HDMI outputs for connecting to various monitors.



Top View: The top edge of the graphics card, showing the 8-pin power connector and the EVGA branding.



Metal Backplate: The rear of the graphics card, featuring a durable metal backplate with GeForce RTX branding, enhancing structural integrity and heat dissipation.

GEFORCE RTX™ 3060 Ti THE ULTIMATE PLAY



Installation Guide Banner: A banner indicating the presence of an installation guide for EVGA GeForce GTX and RTX series graphics cards.

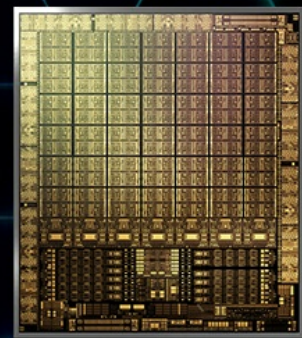
NVIDIA AMPERE ARCHITECTURE

The all-new NVIDIA Ampere architecture features new 2nd generation Ray Tracing Cores and 3rd generation Tensor Cores with greater throughput. The NVIDIA Ampere streaming multiprocessors are the building blocks for the world's fastest, most efficient GPU for gamers and creators.

**2ND GENERATION
RT CORES**
2X THROUGHPUT

**3RD GENERATION
TENSOR CORES**
UP TO 2X THROUGHPUT

**NEW
SM**
2X FP32 THROUGHPUT



GeForce RTX 3060 Ti Marketing Banner: A promotional image highlighting the GeForce RTX 3060 Ti as 'The Ultimate Play' for gamers.



EVGA GeForce RTX™ 3060 Ti

The EVGA GeForce RTX™ 3060 Ti XC cards are designed for the no-frills gamer who needs a high-performance card that can also fit into tight spaces. Smartly designed to be cooled with two large fans, protected with an all-metal backplate, and carefully packaged into a short two-slot card for maximum compatibility with all types of gaming cases, the EVGA GeForce RTX™ 3060 Ti XC cards embody what it means to have The Ultimate Play.

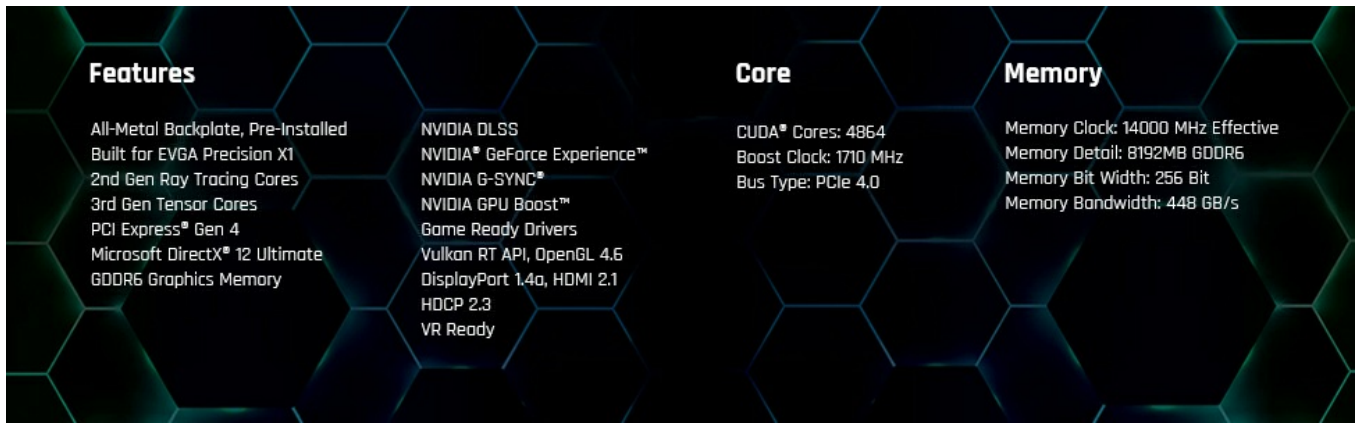
NVIDIA Ampere Architecture: Details on the NVIDIA Ampere architecture, featuring 2nd Gen Ray Tracing Cores, 3rd Gen Tensor Cores, and new SM for improved throughput.

TAKE CONTROL

EVGA Precision X1 gives you full control over your fans, overclocking, and monitoring



EVGA GeForce RTX 3060 Ti XC Card Description: Information about the XC cards being designed for high-performance in tight spaces, featuring dual fans, a metal backplate, and a short two-slot design.



EVGA Precision X1: An image of the EVGA Precision X1 software interface, allowing users to control fans, overclocking, and monitor the graphics card.

SETUP

Hardware Installation

1. **Power Off:** Ensure your computer is completely powered off and unplugged 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-e x16 slot on your motherboard.
4. **Remove Slot Covers:** Remove the necessary expansion slot covers from your computer case that correspond to the graphics card's size.
5. **Insert Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. The retention clip on the slot should click into place.
6. **Secure Card:** Use screws to secure the graphics card to the computer case's expansion slot bracket.
7. **Connect Power:** Connect the 8-pin PCIe power connector from your power supply to the graphics card. Ensure your power supply meets the minimum 450W requirement.
8. **Close Case:** Replace the side panel of your computer case.
9. **Connect Display:** Connect your monitor(s) to the graphics card's DisplayPort or HDMI outputs.

Driver Installation

After hardware installation, power on your computer. Windows will typically install a basic display driver. For optimal performance and access to all features, download and install the latest NVIDIA GeForce drivers from the official NVIDIA website (www.nvidia.com/drivers). Follow the on-screen instructions for a clean installation.

OPERATING YOUR GRAPHICS CARD

Software and Utilities

To unlock the full potential of your EVGA GeForce RTX 3060 Ti XC Gaming card, consider installing EVGA Precision X1. This utility allows you to monitor your GPU, adjust clock speeds, manage fan curves, and customize RGB lighting (if applicable). Download it from the official EVGA website (www.evga.com/precisionx1).

Gaming and Applications

Ensure your games and applications are updated to their latest versions to take advantage of performance optimizations and new features like DLSS and Ray Tracing. Adjust in-game graphics settings to balance visual quality and frame rates according to your preference.

MAINTENANCE

- **Keep Drivers Updated:** Regularly check for and install the latest graphics drivers from NVIDIA to ensure optimal performance and stability.

- **Clean Dust:** Periodically clean dust from the graphics card fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Ensure Proper Airflow:** Maintain good airflow within your computer case to prevent overheating. Ensure case fans are functioning correctly and cables are managed to avoid obstructing airflow.
- **Monitor Temperatures:** Use monitoring software (like EVGA Precision X1) to keep an eye on GPU temperatures during heavy loads.

TROUBLESHOOTING

- **No Display Output:**
 - Verify that the monitor cable is securely connected to both the graphics card and the monitor.
 - Ensure the graphics card is fully seated in the PCIe slot and the 8-pin power connector is attached.
 - Test with a different display cable or monitor if possible.
- **Performance Issues/Low Frame Rates:**
 - Ensure you have the latest graphics drivers installed.
 - Check GPU temperatures to ensure it's not overheating and throttling performance.
 - Verify that your power supply meets the minimum wattage requirement.
 - Close unnecessary background applications.
- **System Crashes/Freezes:**
 - Update graphics drivers.
 - Monitor GPU temperatures.
 - Ensure your power supply is stable and sufficient.

TECHNICAL SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 3060 Ti
Brand	EVGA
Graphics RAM Size	8 GB
Graphics RAM Type	GDDR6
Video Output Interface	HDMI, DisplayPort
Graphics Processor Manufacturer	NVIDIA
Compatible Devices	Motherboards with a PCI-e x16 slot
Display Resolution Maximum	3840x2160
Graphics Card Interface	PCI-Express x16
Memory Clock Speed	14000.0 MHz
Number of Fans	2
Item Dimensions L x W	7.94"L x 4.33"W
Item Weight	2.2 Pounds
UPC	843368072469

WARRANTY AND SUPPORT

This EVGA GeForce RTX 3060 Ti XC Gaming graphics card comes with a **3-year warranty**. For detailed warranty terms, technical support, and additional resources, please visit the official EVGA website or their brand store on Amazon:

[EVGA Brand Store on Amazon](#)

[Official EVGA Website](#)

OFFICIAL PRODUCT VIDEOS

Product Summary Video: An official video from Amazon Product Imaging providing a concise overview of the EVGA GeForce RTX 3060 Ti XC Gaming graphics card, highlighting its key features and design.