

**EVGA 12G-P5-3967-KR**

# EVGA GeForce RTX 3080 Ti FTW3 ULTRA GAMING User Manual

Model: 12G-P5-3967-KR

		Package			
Introduction	Features	Contents	Setup	Operating	Maintenance
				Warranty &	Troubleshooting
		Specifications		Support	

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your EVGA GeForce RTX 3080 Ti FTW3 ULTRA GAMING graphics card. This high-performance graphics card is designed to deliver exceptional visual fidelity and processing power for demanding applications and gaming.



Figure 1.1: EVGA GeForce RTX 3080 Ti FTW3 ULTRA GAMING Graphics Card and Packaging.

## 2. KEY FEATURES

The EVGA GeForce RTX 3080 Ti FTW3 ULTRA GAMING graphics card incorporates advanced technologies to enhance performance and user experience. Key features include:

- **Digital Max Resolution:** Supports resolutions up to 7680 x 4320 for ultra-high definition displays.
- **Real Boost Clock:** Achieves a boost clock of 1800 MHz for enhanced performance.
- **Memory Detail:** Equipped with 12288 MB GDDR6X memory for high-bandwidth data transfer.
- **Real-Time RAY TRACING:** Delivers cutting-edge, hyper-realistic graphics in supported games.
- **iCX3 Technology:** Advanced cooling solution for optimal thermal performance.
- **ARGB LED:** Customizable RGB lighting for aesthetic personalization.
- **Metal Backplate:** Provides structural rigidity and aids in heat dissipation.
- **NVIDIA DLSS:** AI acceleration for maximum FPS and uncompromised image quality.
- **PCI Express Gen 4:** High-speed interface for data transfer.

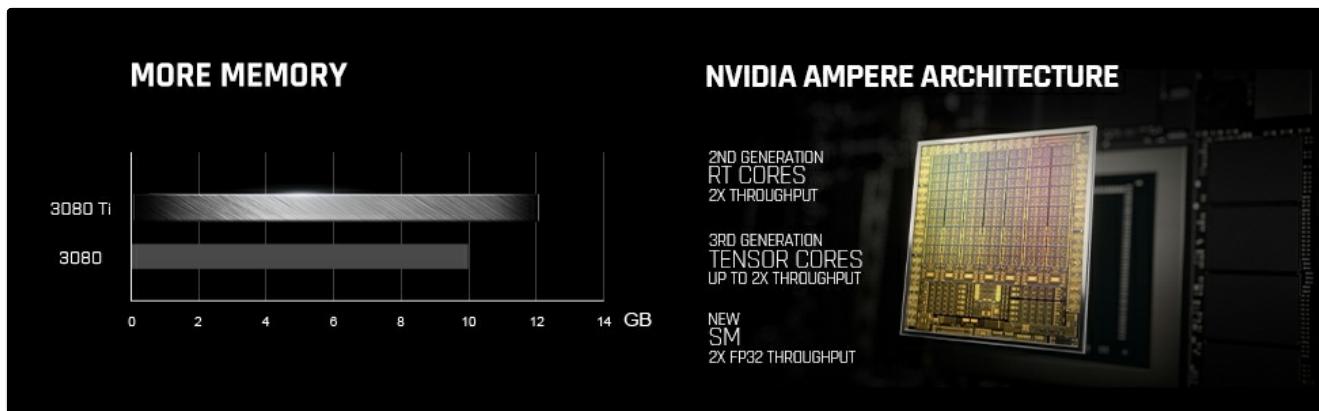


Figure 2.1: Memory and Architecture Overview.



Figure 2.2: iCX3 Interactive Cooling System.

### 3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation:

- EVGA GeForce RTX 3080 Ti FTW3 ULTRA GAMING Graphics Card
- Quick Start Guide / User Manual (Digital or Printed)
- Accessory Kit (may include power adapters, support bracket, screws)

*Note: Contents may vary slightly based on region or specific bundle.*

### 4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your graphics card. Ensure your system meets the minimum requirements before installation.

#### 4.1 System Requirements

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 750W or greater system power supply with three 8-pin PCIe power connectors.
- Microsoft Windows 10 64-bit or Linux 64-bit operating system.
- 1.5GB of available hard-disk space.
- 8GB system memory (16GB recommended).

#### 4.2 Hardware Installation

1. **Prepare Your System:** Power off your computer and disconnect all cables. Open the computer case.

2. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. This card typically requires a 2.75 slot width.
3. **Remove Slot Covers:** Remove the necessary expansion slot covers from your computer case.
4. **Install 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.
5. **Secure Card:** Secure the graphics card to the case using the screws from the expansion slots.
6. **Connect Power:** Connect three 8-pin PCIe power cables from your power supply to the corresponding power connectors on the graphics card. Ensure a secure connection.
7. **Close Case:** Close your computer case and reconnect all cables.





Figure 4.1: Graphics Card Output Ports (DisplayPort and HDMI).

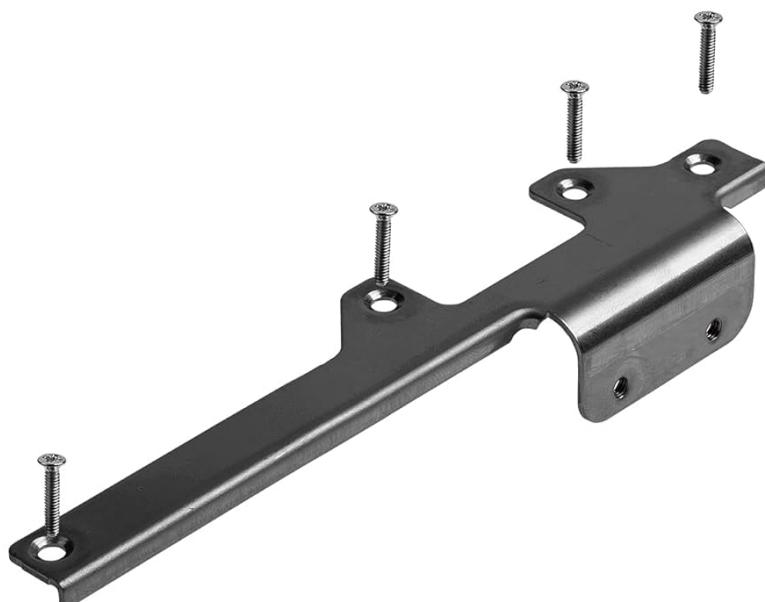


Figure 4.2: Optional Support Bracket Installation.

## 4.3 Software Installation

1. **Power On:** Turn on your computer. The system may boot into a lower resolution.
2. **Install Drivers:** Download the latest NVIDIA GeForce drivers from the official NVIDIA website ([www.nvidia.com/drivers](http://www.nvidia.com/drivers)). Select your product series (GeForce RTX 30 Series), product (GeForce RTX 3080 Ti), and operating system.
3. **Install EVGA Precision X1:** For advanced monitoring, overclocking, and ARGB LED control, download and install EVGA Precision X1 software from the official EVGA website ([www.evga.com/precisionx1](http://www.evga.com/precisionx1)).
4. **Restart:** Restart your computer after driver and software installation to apply changes.

## 5. OPERATING YOUR GRAPHICS CARD

Once installed, your EVGA GeForce RTX 3080 Ti is ready for use. Here are some operational considerations:

### 5.1 Display Connection

Connect your display(s) to the DisplayPort or HDMI outputs on the graphics card. This card supports multiple displays simultaneously.

### 5.2 Performance Optimization

- **Driver Updates:** Regularly check for and install the latest NVIDIA drivers for optimal performance and compatibility with new games and applications.
- **EVGA Precision X1:** Utilize EVGA Precision X1 for fine-tuning. This software allows you to:
  - Monitor GPU temperature, clock speeds, and fan speeds.
  - Adjust fan curves for customized cooling performance.
  - Overclock the GPU and memory for increased performance (use with caution).
  - Control the ARGB LED lighting effects.
- **System Cooling:** Ensure adequate airflow within your computer case to prevent thermal throttling and maintain stable performance.



Figure 5.1: ARGB LED Illumination (LED ON).



**DLSS AI ACCELERATION**  
**MAX FPS.**  
**MAX QUALITY. POWERED BY AI.**

NVIDIA DLSS is groundbreaking AI rendering that boosts frame rates with uncompromised image quality using the dedicated AI processing Tensor Cores on GeForce RTX™. This gives you the performance headroom to crank up settings and resolutions for an incredible visual experience. The AI revolution has arrived to gaming.



**EXPERIENCE TODAY'S BIGGEST**  
**BLOCKBUSTERS LIKE NEVER BEFORE**

Ray tracing is the holy grail of gaming graphics, simulating the physical behavior of light to bring real-time, cinematic-quality rendering to even the most visually intense games.



**VICTORY MEASURED IN MILLISECONDS**

NVIDIA Reflex delivers the ultimate competitive advantage. The lowest latency. The best responsiveness. Powered by GeForce RTX™ 30 Series GPUs and NVIDIA® G-SYNC® monitors. Acquire targets faster, react quicker and increase aim precision through a revolutionary suite of technologies to measure and optimize system latency for competitive games.



**UP YOUR CREATIVE GAME**

Take your creative projects to a new level with GeForce RTX™ 30 Series GPUs. Delivering AI-acceleration in top creative apps. Backed by the NVIDIA Studio platform of dedicated drivers and exclusive tools. And built to perform in record time. Whether rendering complex 3D scenes, editing 8K video, or livestreaming with the best encoding and image quality, GeForce RTX™ GPUs give you the performance to create your best.



**STREAM LIKE A BOSS**

Steal the show with incredible graphics and smooth, stutter-free live streaming. Next-generation hardware encoding and decoding combine to show off all your best moments in exquisite detail. And the all-new NVIDIA Broadcast app takes your livestreams to the next level with powerful AI capabilities like noise removal, virtual background, and more. GeForce RTX™ 30 Series GPUs deliver the performance and image quality necessary to give your audience your best—every time.

Figure 5.2: Advanced Features in Action.

## 6. 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 not spinning during cleaning to prevent damage.
- Environmental Conditions:** Operate the graphics card in a well-ventilated environment with stable temperature and humidity. Avoid extreme temperatures.
- Cable Management:** Ensure internal cables do not obstruct airflow around the graphics card.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
No display output.	Graphics card not seated correctly. Power cables not connected. Incorrect display input selected. Outdated or corrupted drivers.	Reseat the graphics card firmly in the PCIe slot. Ensure all PCIe power cables are securely connected. Check your monitor's input selection. Boot into safe mode and reinstall drivers.
System crashes or freezes during gaming.	Overheating. Unstable overclock. Insufficient power supply. Driver issues.	Monitor temperatures using EVGA Precision X1. Improve case airflow. Reset overclock settings to default. Ensure your PSU meets the minimum wattage requirement. Update or reinstall graphics drivers.

Problem	Possible Cause	Solution
Fans are excessively loud.	High temperatures causing fans to ramp up. Aggressive fan curve settings. Dust accumulation on fans/heatsink.	Improve case airflow. Adjust fan curve settings in EVGA Precision X1. Clean the fans and heatsink.

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

## 8. TECHNICAL SPECIFICATIONS

Detailed specifications for the EVGA GeForce RTX 3080 Ti FTW3 ULTRA GAMING graphics card:

Category	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 3080 Ti
Boost Clock	1800 MHz
Memory Clock	19000 MHz Effective
Memory Detail	12288 MB GDDR6X
Memory Bit Width	384 Bit
Memory Bandwidth	912 GB/s
CUDA Cores	10240
Bus Type	PCIe 4.0
Max Digital Resolution	7680 x 4320
Video Output Interface	DisplayPort (3x), HDMI (1x)
Dimensions (Height)	5.38 in - 136.75 mm
Dimensions (Length)	11.81 in - 300 mm
Dimensions (Width)	2.75 Slots
Item Weight	3.96 pounds
Voltage	12 Volts

## FEATURES

EVGA iCX3 Cooling	NVIDIA G-SYNC®
Adjustable ARGB LED	NVIDIA GPU Boost™
All-Metal Backplate, Pre-Installed	Game Ready Drivers
Built for EVGA Precision X1	Vulkan RT API, OpenGL 4.6
2nd Gen Ray Tracing Cores	DisplayPort 1.4a
3rd Gen Tensor Cores	7th Gen NVIDIA Encoder
PCI Express® Gen 4	5th Gen NVIDIA Decoder
Microsoft DirectX® 12 Ultimate	HDCP 2.3
GDDR6X Graphics Memory	VR Ready
NVIDIA DLSS	Supports 4K 120Hz HDR, 8K 60Hz HDR and
NVIDIA® GeForce Experience™	Variable Refresh Rate as specified in HDMI 2.1

## SPECIFICATIONS

Boost Clock: 1800 MHz
Memory Clock: 19000 MHz Effective
CUDA Cores: 10240
Bus Type: PCIe 4.0
Memory Detail: 12288MB GDDR6X
Memory Bit Width: 384 Bit
Memory Bandwidth: 912 GB/s

## DIMENSIONS

Height: 5.38 in - 136.75mm
Length: 11.81 in - 300mm
Width: 2.75 Slots

Figure 8.1: Summary of Features and Specifications.

## 9. WARRANTY AND SUPPORT

### 9.1 Warranty Information

EVGA products are covered by a limited warranty. The specific warranty period and terms may vary by product and region. Please register your product on the official EVGA website to ensure warranty coverage and access to support services.

For detailed warranty terms and conditions, visit the EVGA website:

[www.evga.com/warranty/](http://www.evga.com/warranty/)

### 9.2 Technical Support

If you encounter issues that cannot be resolved using the troubleshooting guide, or require further assistance, please contact EVGA Technical Support.

- EVGA Support Website:** [www.evga.com/support/](http://www.evga.com/support/)
- Knowledge Base:** Access FAQs, drivers, and software downloads.
- Contact Options:** Phone, email, or live chat support may be available depending on your region.

When contacting support, please have your product model number (12G-P5-3967-KR) and serial number ready.

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## Related Documents

	<a href="#">EVGA GeForce RTX 2080 Ti KINGPIN Edition OC Guide: Overclocking, Performance, and Features</a> Detailed overclocking guide for the EVGA GeForce RTX 2080 Ti KINGPIN Edition graphics card. Covers advanced power design, 12-layer PCB benefits, watercooling, performance benchmarks, EVGA Precision X1 software, and probe points for extreme overclocking.
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	<p><b>EVGA GeForce GTX 1080 Ti SC HYBRID Installation Guide</b></p> <p>This guide provides step-by-step instructions for installing the EVGA GeForce GTX 1080 Ti SC HYBRID Cooling Kit. It covers component identification, disassembly of the original graphics card cooler, and assembly of the new HYBRID module, including radiator mounting and cable connections. Important information regarding warranty and compatibility is also provided.</p>
	<p><b>EVGA X15 Gaming Mouse Quick Guide</b></p> <p>A quick guide to setting up and using the EVGA X15 MMO Gaming Mouse, including button layouts, LED indicators, and compliance information.</p>
	<p><b>EVGA Z15 RGB Gaming Keyboard Quick Guide</b></p> <p>A concise guide to setting up and using the EVGA Z15 RGB Gaming Keyboard, including features, switch replacement, and compliance information.</p>

Documents - EVGA – 12G-P5-3967-KR



### [pdf] User Manual Guide

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 12GB GDDR6X iC3X Technology ARGB LED Metal Backplate Electronics D1K4ORRx31L m media  
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## [pdf] Accessories

Stephan NVIDIA 3080 3080Ti 3090 PRODUCT COMPATIBILITY LIST 28 07 2021 Aquacomputer s  
Compatibility List Kryographics NEXT RTX Extended 23696 ModMyMods PC Watercooling Parts and  
Accessories rtx product compatibility list aquacomputer de tl files Manufacturer Product name number  
Type of approval Waterblocks Backplates Asus TUF Gaming GeForce OC 90YV0FB1 M0NM00  
90YV0FB0 ROG Strix 90YV0FA0 Complete check kryographics 23692 23693 Backplate 23694 23695 |||  
Manufacturer Asus Product name and number TUF Gaming GeForce RTX 3080 OC  
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Phoenix GS 10GB...