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EVGA 08G-P5-3797-KL

EVGA GeForce RTX 3070 Ti FTW3 Ultra Gaming Graphics Card Instruction Manual

Model: 08G-P5-3797-KL

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your EVGA GeForce RTX 3070 Ti FTW3 Ultra Gaming graphics card. Please read this manual thoroughly before installation to ensure proper setup and optimal performance.



Figure 1: Front view of the EVGA GeForce RTX 3070 Ti FTW3 Ultra Gaming graphics card.

2. PRODUCT FEATURES

The EVGA GeForce RTX 3070 Ti FTW3 Ultra Gaming graphics card is designed for high-performance gaming and demanding graphical tasks. Key features include:

- **Digital Max Resolution:** 7680 x 4320 for immersive visual experiences.
- **Real Boost Clock:** 1860 MHz; Memory Detail: 8192 MB GDDR6X for enhanced speed.
- **Real-Time RAY TRACING:** Delivers cutting-edge, hyper-realistic graphics in supported games.
- **All-Metal Backplate & Adjustable ARGB:** Provides structural rigidity and customizable lighting.
- **iCX3 Technology:** Advanced cooling solution for optimal thermal performance.

FEATURES

EVGA iCX3 Cooling
Adjustable ARGB LED
All-Metal Backplate, Pre-Installed
Built for EVGA Precision X1
2nd Gen Ray Tracing Cores
3rd Gen Tensor Cores
PCI Express® Gen 4
Microsoft DirectX® 12 Ultimate
GDDR6X Graphics Memory
NVIDIA DLSS
NVIDIA® GeForce Experience™

NVIDIA G-SYNC®
NVIDIA GPU Boost™
Game Ready Drivers
Vulkan RT API, OpenGL 4.6
DisplayPort 1.4a
7th Gen NVIDIA Encoder
5th Gen NVIDIA Decoder
HDCP 2.3
VR Ready
Supports 4K 120Hz HDR, 8K 60Hz HDR and
Variable Refresh Rate as specified in HDMI 2.1

SPECIFICATIONS

Boost Clock: 1860 MHz
Memory Clock: 19000 MHz Effective
CUDA Cores: 6144
Bus Type: PCIe 4.0
Memory Detail: 8192MB GDDR6X
Memory Bit Width: 256 Bit
Memory Bandwidth: 608 GB/s

DIMENSIONS

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

Figure 2: The graphics card showcasing its adjustable ARGB LED lighting.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- EVGA GeForce RTX 3070 Ti FTW3 Ultra Gaming Graphics Card

4. SETUP & INSTALLATION

4.1 System Requirements

- Motherboard with a PCI-e x16 slot.
- Sufficient power supply (consult your PSU's specifications for compatibility).
- Compatible operating system (Windows 10 64-bit or later recommended).

4.2 Physical Installation

1. Power off your computer and disconnect all cables.
2. Open your computer case.
3. Locate an available PCI-e x16 slot on your motherboard.
4. Remove any expansion slot covers that obstruct the installation.
5. Carefully align the graphics card with the PCI-e slot and press down firmly until it is securely seated.
6. Secure the graphics card to the case with screws.
7. Connect the required power cables from your power supply to the graphics card. This model typically requires two 8-pin PCIe power connectors.
8. Close your computer case.



Figure 3: DisplayPort and HDMI output interfaces on the graphics card.

4.3 Driver and Software Installation

1. Connect your display cable (DisplayPort or HDMI) to the graphics card.
2. Power on your computer.
3. Download the latest NVIDIA drivers from the official NVIDIA website (www.nvidia.com/drivers).
4. Install the drivers following the on-screen instructions.
5. For advanced control and customization, download and install EVGA Precision X1 software from the official EVGA website (www.evga.com/precisionx1/).

5. OPERATING INSTRUCTIONS

Once installed, your EVGA GeForce RTX 3070 Ti FTW3 Ultra Gaming graphics card will automatically enhance your system's graphical performance. Ensure your display is connected to the graphics card's output ports for optimal results.

5.1 ARGB LED Customization

The graphics card features adjustable ARGB LED lighting. Use the EVGA Precision X1 software to customize lighting effects, colors, and synchronization with other compatible components in your system.



Figure 4: Comparison of the graphics card with ARGB LED off and on.

5.2 Performance Monitoring

EVGA Precision X1 software also allows you to monitor critical parameters such as GPU temperature, clock speeds, fan speeds, and power consumption. This helps in optimizing performance and ensuring system stability.

6. MAINTENANCE

Regular maintenance helps prolong the lifespan and maintain the performance of your graphics card.

- **Cleaning:** Periodically clean dust from the fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your graphics drivers updated to the latest version for optimal performance and stability.
- **Software Updates:** Regularly update EVGA Precision X1 software for new features and bug fixes.

7. TROUBLESHOOTING

If you encounter issues with your graphics card, refer to the following common troubleshooting steps:

- **No Display Output:** Ensure the graphics card is properly seated in the PCI-e slot and all power cables are securely connected. Verify your monitor is connected to the graphics card and not the motherboard's integrated graphics.
- **Driver Issues:** Reinstall the latest graphics drivers. Use a clean installation option if available.
- **Overheating:** Check fan operation and ensure adequate airflow within your PC case. Clean any dust buildup on the heatsink and fans. Monitor temperatures using EVGA Precision X1.
- **Performance Problems:** Ensure your system meets the recommended specifications for the applications or games you are running. Update drivers and check for background processes consuming resources.

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

8. SPECIFICATIONS

Feature	Detail
Graphics Coprocessor	NVIDIA GeForce RTX 3070 Ti
Brand	EVGA
Graphics RAM Size	8 GB
Video Output Interface	DisplayPort/HDMI
Graphics Processor Manufacturer	NVIDIA
Graphics RAM Type	GDDR6X
Compatible Devices	Motherboards with a PCI-e x16 slot
Display Resolution Maximum	7680x4320
Graphics Card Interface	PCI-Express x16
Memory Clock Speed	19000 MHz
Number of Fans	3
Item Dimensions (L x W)	11.81"L x 5.38"W
Item Weight	1.15 Pounds
Model Name	RTX 3070

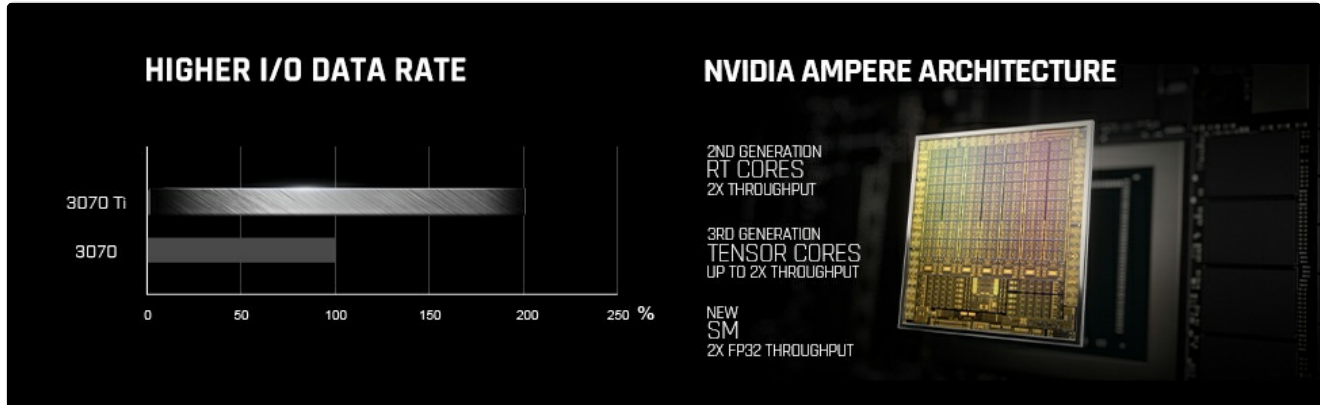


Figure 5: Overview of key features and specifications.

9. WARRANTY AND SUPPORT

Your EVGA GeForce RTX 3070 Ti FTW3 Ultra Gaming graphics card comes with a **3-year warranty**. For warranty claims, technical support, or additional product information, please visit the official EVGA support website or contact their customer service department.

EVGA Support Website: www.evga.com/support/

Video 1: An overview of the EVGA GeForce RTX 3070 Ti FTW3 Ultra Gaming graphics card, highlighting its design and features.