EVGA 12G-P5-4868-KL

EVGA GeForce RTX 3080 12GB XC3 ULTRA HYBRID GAMING Instruction Manual

Model: 12G-P5-4868-KL

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your EVGA GeForce RTX 3080 12GB XC3 ULTRA HYBRID GAMING graphics card. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.

Image 1.1: EVGA GeForce RTX 3080 12GB XC3 ULTRA HYBRID GAMING graphics card and packaging.

2. Package Contents

Verify that all components are present in your product package:

- EVGA GeForce RTX 3080 12GB XC3 ULTRA HYBRID GAMING Graphics Card
- Quick Start Guide (this document)
- Accessory Pack (may include power adapters, documentation)

3. System Requirements

Before installation, ensure your system meets the following minimum requirements:

- PCI Express-compliant motherboard with one x16 graphics slot.
- Minimum 750W or greater power supply with two 8-pin PCIe power connectors.
- Microsoft Windows 10 64-bit, Windows 11 64-bit, or Linux 64-bit operating system.

- 350MB of available hard-disk space.
- 8GB system memory (16GB recommended).
- Internet connection for driver installation and software updates.

4. Setup and Installation

4.1 Physical Installation

1. **Power Off and Disconnect:** Turn off your computer and disconnect all power cables.
2. **Open Case:** Open your computer case to access the motherboard.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot. Remove any expansion slot covers that obstruct the installation.
4. **Insert Graphics Card:** 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 Card:** Fasten the graphics card to the chassis using the screw from the expansion slot.
6. **Connect Power:** Connect two 8-pin PCIe power cables from your power supply to the corresponding power connectors on the graphics card.

4.2 Liquid Cooler Installation

The EVGA XC3 ULTRA HYBRID GAMING features an integrated All-In-One (AIO) liquid cooling solution. The radiator and fans must be mounted within your PC case.

1. **Radiator Placement:** Identify a suitable mounting location for the 240mm radiator. Common locations include the front, top, or rear of the case, depending on available space and airflow.
2. **Mount Radiator:** Secure the radiator and its two fans to the chosen mounting points using the provided screws. Ensure the fans are oriented to provide optimal airflow (e.g., intake or exhaust).
3. **Connect Fan Cables:** Connect the fan cables to appropriate fan headers on your motherboard or a fan controller.

Image 4.1: Graphics card and liquid cooling components ready for installation.

4.3 Connectivity

The graphics card provides multiple display outputs for connecting to monitors:

- 3x DisplayPort 1.4a
- 1x HDMI 2.1

Connect your display cables to the desired ports on the graphics card.

Image 4.2: Display output ports on the graphics card.

5. Operating Instructions

5.1 Driver Installation

1. **Close Case and Power On:** Close your computer case and reconnect all power cables. Power on your computer.

2. **Download Drivers:** Once your operating system loads, navigate to the official NVIDIA website (www.nvidia.com/drivers) to download the latest drivers for your GeForce RTX 3080 graphics card.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. A system restart may be required after installation.

5.2 Software Configuration (EVGA Precision X1)

For advanced monitoring, overclocking, and ARGB LED control, EVGA recommends installing EVGA Precision X1 software.

1. **Download Precision X1:** Visit the official EVGA website (www.evga.com/precisionx1) to download the latest version of EVGA Precision X1.
2. **Install Software:** Run the installer and follow the prompts.
3. **Configure Settings:** Use Precision X1 to monitor GPU temperatures, adjust fan curves, manage ARGB lighting effects, and apply overclocking profiles.

Image 5.1: Graphics card with ARGB LED lighting active.

6. Maintenance

6.1 Cleaning

Regular cleaning helps maintain optimal performance and longevity of your graphics card:

- **Dust Removal:** Periodically use compressed air to remove dust from the graphics card heatsink fins, fans, and the radiator. Ensure the system is powered off before cleaning.
- **Fan Blades:** Gently clean fan blades with a soft brush or cloth if dust accumulation is visible.

6.2 Liquid Cooling System

The HYBRID cooling system is a sealed All-In-One (AIO) unit and does not require user maintenance such as

refilling or checking liquid levels. Do not attempt to open or modify the liquid cooling loop, as this will void your warranty.

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 fully seated in the PCIe slot.
  - Verify that all PCIe power cables are securely connected to the graphics card.
  - Check that your monitor cable is connected to the graphics card, not the motherboard's integrated graphics ports.
  - Test with a different display cable or monitor if possible.
- **Performance Issues / Low FPS:**
  - Ensure the latest NVIDIA drivers are installed.
  - Check GPU temperatures using monitoring software like EVGA Precision X1. High temperatures can lead to thermal throttling.
  - Verify that your power supply meets the recommended wattage.
  - Close unnecessary background applications.
- **Unusual Noise from Radiator Fans/Pump:**
  - Ensure no cables are obstructing the fan blades.
  - Check fan speeds in EVGA Precision X1 and adjust if necessary.
  - If the pump noise is excessive or unusual, contact EVGA technical support.

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

8. Specifications

Key technical specifications for the EVGA GeForce RTX 3080 12GB XC3 ULTRA HYBRID GAMING graphics card:

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 3080
Memory Detail	12288 MB GDDR6X
Boost Clock	1755 MHz
Memory Clock	19000 MHz Effective
CUDA Cores	8960
Bus Type	PCIe 4.0
Memory Bit Width	384-bit
Memory Bandwidth	912.4 GB/s

Feature	Specification
Max Screen Resolution	7680x4320 Pixels
Video Output Interface	3x DisplayPort 1.4a, 1x HDMI 2.1
Dimensions (LxWxH)	10.35 x 1.65 x 4.41 inches (262.8 x 41.9 x 112.1 mm)
Item Weight	5.57 pounds
Cooling	Hybrid (AIO Liquid Cooler with 240mm Radiator and Dual Fans)
Features	Adjustable ARGB LED, All-Metal Backplate, NVIDIA DLSS, Real-Time Ray Tracing, VR Ready

Image 8.1: Overview of key features and specifications.

9. Warranty and Support

9.1 Warranty Information

Your EVGA GeForce RTX 3080 12GB XC3 ULTRA HYBRID GAMING graphics card is covered by a **3-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use. For full warranty terms and conditions, please visit the official EVGA website.

9.2 Technical Support

EVGA provides comprehensive technical support for its products. If you encounter any issues not covered in this manual or require further assistance, please contact EVGA Technical Support:

- **EVGA Support Website:** www.evga.com/support
- **Phone Support:** Refer to the EVGA support website for regional contact numbers.

When contacting support, please have your product model number (12G-P5-4868-KL) and serial number readily available.

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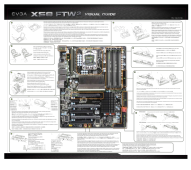
Related Documents - 12G-P5-4868-KL

	EVGA GeForce RTX 3080 Ti FTW3 Ultra Gaming Quick Start Guide and Warranty Quick start guide for the EVGA GeForce RTX 3080 Ti FTW3 Ultra Gaming (12G-P5-3967-KR), covering minimum system requirements, operating system compatibility, included equipment, and EVGA's limited warranty for Australia and New Zealand. Includes HDMI information and RoHS compliance details.
	EVGA GeForce RTX 2080 Ti KINGPIN Edition OC Guide: Overclocking, Performance, and Features 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.
	EVGA Graphics Card User Guide - Installation, Setup, and Support Comprehensive user guide for EVGA graphics cards, covering installation, software setup, SLI configuration, troubleshooting, and support resources. Includes details on hardware installation, driver installation, multiple display setups, and compliance information.
	EVGA GeForce GTX 1080 Ti SC HYBRID Installation Guide 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.
	EVGA Graphics Card User Guide: Installation, Setup, and Support Comprehensive user guide for EVGA graphics cards, covering installation, software setup, SLI configuration, troubleshooting, and support resources. Includes details on hardware installation, power requirements, and compliance information.
	EVGA X58 FTW3 Motherboard Installation and Visual Guide A comprehensive visual guide for installing and setting up the EVGA X58 FTW3 motherboard, covering CPU, RAM, graphics card, power, and system startup. Includes component identification, package contents, and support information.