EVGA 06G-P4-2063-KR

EVGA GeForce RTX 2060 XC GAMING Graphics Card User Manual

Model: 06G-P4-2063-KR

1. PRODUCT OVERVIEW

The EVGA GeForce RTX 2060 XC GAMING graphics card delivers advanced graphics performance for gaming and creative applications. Featuring 6GB of GDDR6 memory and a Real Boost Clock of 1755 MHz, this card supports real-time Ray Tracing for hyper-realistic visuals and is NVIDIA G-SYNC Compatible for smooth, tear-free gaming experiences. Its single HDB fan design provides efficient and quiet cooling.

Image: Front view of the EVGA GeForce RTX 2060 XC GAMING Graphics Card, showcasing its single fan design.

Key Features:

- Real Boost Clock: 1755 MHz
- Memory Detail: 6144MB GDDR6
- Real-time Ray Tracing for cutting-edge, hyper-realistic graphics
- NVIDIA G-SYNC Compatible
- Single HDB fan for high-performance cooling and quiet acoustics
- Built for EVGA Precision X1 tuning utility

2. SETUP AND INSTALLATION

2.1 Pre-Installation Checklist

- Ensure your system has a minimum of a 500 Watt power supply.

- Verify one available 8-pin PCIe power dongle from your power supply.

- Confirm an available PCI Express x16 slot on your motherboard.

- Gather necessary tools: Phillips head screwdriver.

- Ground yourself to prevent electrostatic discharge (ESD).

2.2 Physical Installation

1. Power off your computer and unplug all cables.

2. Open your computer case.

3. Locate an empty PCI Express x16 slot on your motherboard. Remove any slot covers from the back of the case corresponding to the chosen slot.

4. Carefully align the graphics card with the PCIe slot and press firmly until it is securely seated. A click may be heard from the slot retention clip.

5. Secure the graphics card to the computer case with screws.

2.3 Power Connection

Connect the 8-pin PCIe power connector from your power supply to the corresponding port on the graphics card. Ensure a firm connection.

Image: Top view of the graphics card, highlighting the 8-pin PCIe power connector.

2.4 Display Connection

Connect your monitor(s) to the graphics card using the appropriate display cables (DisplayPort, HDMI, or DVI). This card features one DisplayPort, one HDMI, and one DVI port.

DP

HDMI

DVI

Image: Rear view of the graphics card, showing the DisplayPort, HDMI, and DVI output ports.

2.5 Driver Installation

1. Close your computer case and reconnect all peripherals and power.
2. Power on your computer.
3. Download the latest drivers for your EVGA GeForce RTX 2060 from the official NVIDIA or EVGA website.
4. Follow the on-screen instructions to complete the driver installation. A system restart may be required.

3. OPERATING YOUR GRAPHICS CARD

Once installed and drivers are updated, your EVGA GeForce RTX 2060 XC GAMING graphics card is ready for use. It is designed to enhance your computing experience, particularly for gaming and demanding graphical tasks.

3.1 Software and Utilities

- **EVGA Precision X1:** This utility allows you to monitor your graphics card, adjust clock speeds, fan curves, and other settings to optimize performance. It is recommended for advanced users.
- **NVIDIA GeForce Experience:** Provides optimal game settings, driver updates, and features like ShadowPlay for recording gameplay.

3.2 Performance Features

- **Real-time Ray Tracing:** Experience next-generation graphics with realistic lighting, reflections, and shadows in supported games.
- **NVIDIA G-SYNC:** Pair with a G-SYNC compatible monitor to eliminate screen tearing and minimize display stutter and input lag.
- **High-Bandwidth Memory:** The 6GB GDDR6 memory ensures fast data transfer for high-resolution textures and complex scenes.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your graphics card.

- **Dust Removal:** Regularly clean dust from the graphics card fans and heatsink using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Airflow:** Maintain good airflow within your computer case to prevent overheating. Ensure case fans are functioning correctly and not obstructed.
- **Driver Updates:** Keep your graphics drivers updated to benefit from performance improvements, bug fixes, and new features.

5. TROUBLESHOOTING

If you encounter issues with your graphics card, try the following troubleshooting steps:

- **No Display Output:**

  - Ensure all display cables are securely connected to both the graphics card and the monitor.
  - Verify the monitor is set to the correct input source.
  - Check that the 8-pin PCIe power connector is firmly attached to the graphics card.
  - Re-seat the graphics card in its PCIe slot.

- **Driver Issues:**

  - Perform a clean installation of the latest graphics drivers.
  - If issues persist, try rolling back to a previous stable driver version.

- **Performance Problems (Stuttering, Low FPS):**

  - Ensure your system meets the recommended specifications for the games or applications you are running.
  - Monitor GPU temperatures using software like EVGA Precision X1 to check for overheating.
  - Close unnecessary background applications.

- **System Instability/Crashes:**

  - Ensure your power supply unit (PSU) meets the minimum wattage requirement (500W).
  - Check for any loose connections inside the computer case.
  - Update your motherboard BIOS to the latest version.

6. SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 2060
Memory Detail	6144MB GDDR6
Memory Speed	14000 MHz
Real Boost Clock	1755 MHz
Max Screen Resolution	7680x4320
Video Output Interface	HDMI, DisplayPort, DVI
Total Power Draw	160 Watts
Minimum Power Supply	500 Watt
Item Dimensions (LxWxH)	7.48 x 2.75 x 4.38 inches
Item Weight	2.14 pounds

7. WARRANTY AND SUPPORT

For detailed warranty information, technical support, and additional resources, please visit the official EVGA website.
Keep your purchase receipt for warranty claims.
EVGA Website: www.evga.com