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› **EVGA GeForce GTX 1080 FTW GAMING ACX 3.0 Graphics Card User Manual**

### EVGA 08G-P4-6286-KR

# EVGA GeForce GTX 1080 FTW GAMING ACX 3.0 Graphics Card User Manual

Model: 08G-P4-6286-KR

## PRODUCT OVERVIEW

The EVGA GeForce GTX 1080 FTW GAMING ACX 3.0 is a high-performance graphics card designed for advanced gaming and demanding graphical applications. It features NVIDIA's Pascal GPU architecture, 8GB of GDDR5X memory, and EVGA's ACX 3.0 cooling technology for efficient heat dissipation and quiet operation.

Key features include a real boost clock of 1860 MHz, RGB LED lighting, 10CM fans, 10 power phases, and a double BIOS for enhanced reliability and customization. It supports DX12 OSD and is VR Ready.



Figure 1: The EVGA GeForce GTX 1080 FTW GAMING ACX 3.0 graphics card shown with its retail packaging.

## WHAT'S IN THE Box

Upon unboxing your EVGA GeForce GTX 1080 FTW GAMING ACX 3.0, verify that all components are present:

- EVGA GTX 1080 FTW GAMING ACX 3.0 Graphics Card
- Driver CD (Note: Latest drivers are recommended from the official EVGA website)
- Installation Guide
- 6Pin(2) to 8 Pin Adapter
- EVGA Gaming Poster
- Powered by EVGA Case Badge
- EVGA Enthusiast Built Sticker



Figure 2: Included accessories and documentation with the graphics card.

## SETUP AND INSTALLATION

Proper installation of your graphics card is crucial for optimal performance and system stability. Ensure your system is powered off and unplugged before beginning the installation process.

### System Requirements:

- PCI Express-compliant motherboard with one dual-width x16 graphics slot.
- Minimum 500W or greater power supply with two 8-pin PCI Express power connectors.
- Windows 10, Windows 8, or Windows 7 (32-bit or 64-bit operating system).
- 1.5GB of available hard-disk space.
- 8GB system memory (16GB recommended).

### Installation Steps:

1. **Prepare your PC:** Power down your computer and unplug all cables. Open your PC case.

2. **Remove old graphics card (if applicable):** Unscrew and carefully remove any existing graphics card.
3. **Locate PCIe Slot:** Identify an available PCI Express x16 slot on your motherboard. This card is bulky and requires sufficient space.
4. **Insert the Graphics Card:** Align the card with the PCIe slot and press down firmly until it clicks into place. Secure it with the retaining screw.
5. **Connect Power Cables:** Connect the required 8-pin PCI Express power connectors from your power supply to the graphics card. Use the provided 6Pin(2) to 8 Pin adapter if necessary.
6. **Close Case and Connect Display:** Close your PC case, plug in all cables, and connect your display to one of the graphics card's output ports (DisplayPort, HDMI, DVI).
7. **Install Drivers:** Power on your PC. Once Windows loads, install the latest drivers from the EVGA website ([www.evga.com/drivers/](http://www.evga.com/drivers/)) for optimal performance and feature access.



Figure 3: The EVGA GeForce GTX 1080 installed in a PC, highlighting its dual-fan cooling system.



Figure 4: Display output ports on the EVGA GeForce GTX 1080, including DisplayPort, HDMI, and DVI.

## OPERATING THE GRAPHICS CARD

The EVGA GeForce GTX 1080 FTW GAMING ACX 3.0 is designed for high-performance computing, particularly gaming and content creation. Once installed and drivers are updated, the card operates automatically, optimizing performance

based on application demands.

## Key Features and Usage:

- **Gaming Performance:** Experience smooth frame rates and high-resolution graphics in modern games. The card is capable of handling 1080p, 1440p, and even some 4K gaming workloads.
- **VR Ready:** Optimized for virtual reality experiences, providing the necessary performance for immersive VR gaming.
- **EVGA PrecisionX OC:** Utilize the EVGA PrecisionX OC software for advanced control over your graphics card. This software allows for:
  - Monitoring GPU temperature, clock speeds, and fan speeds.
  - Customizing RGB LED lighting effects.
  - Adjusting fan curves for optimized cooling and noise levels.
  - Overclocking for additional performance (use with caution).
- **Double BIOS:** The card features a dual BIOS switch, allowing users to switch between two different BIOS configurations. This can be useful for testing overclocking profiles or as a backup in case of a corrupted BIOS. Refer to the EVGA PrecisionX OC manual for detailed instructions on utilizing this feature.
- **DX12 OSD Support:** Full support for DirectX 12 with On-Screen Display (OSD) for real-time performance monitoring during gameplay.



Figure 5: The EVGA GeForce GTX 1080's cooling solution, featuring dual fans for efficient heat dissipation.

## 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 rapidly during cleaning to prevent damage.
- **Driver Updates:** Keep your graphics drivers updated to the latest version available from the EVGA or NVIDIA website. Driver updates often include performance improvements, bug fixes, and compatibility enhancements.
- **Temperature Monitoring:** Use EVGA PrecisionX OC or similar software to monitor GPU temperatures during heavy loads. Ensure temperatures remain within safe operating limits (typically below 80-85°C). Good airflow within

your PC case is essential for effective cooling.

- **Physical Inspection:** Occasionally inspect the card for any loose connections, bent pins, or visible damage.

## TROUBLESHOOTING

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

### Common Issues and Solutions:

- **No Display/Black Screen:**
  - Ensure the display cable is securely connected to both the graphics card and the monitor.
  - Verify that the graphics card is fully seated in the PCIe slot.
  - Check that all required power cables are connected to the graphics card.
  - Try a different display output port or cable.
- **Driver Crashes/System Instability:**
  - Perform a clean installation of the latest graphics drivers. Uninstall existing drivers before installing new ones.
  - Ensure your operating system is up to date.
  - Check for overheating. Monitor GPU temperatures during use.
- **Poor Performance in Games:**
  - Ensure you have the latest graphics drivers installed.
  - Check in-game graphics settings. Reduce settings if necessary.
  - Verify that your power supply meets the minimum wattage requirements.
  - Monitor GPU utilization and clock speeds using EVGA PrecisionX OC to ensure the card is boosting correctly.
- **Fan Noise:**
  - Adjust fan curves using EVGA PrecisionX OC to find a balance between cooling and noise.
  - Clean dust from the fans and heatsink.
  - Ensure adequate airflow within your PC case.

For more advanced troubleshooting or persistent issues, consult the official EVGA support resources or the detailed user manual available on their website.

## SPECIFICATIONS

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Detailed technical specifications for the EVGA GeForce GTX 1080 FTW GAMING ACX 3.0 (Model: 08G-P4-6286-KR):

Feature	Detail
Graphics Coprocessor	Nvidia GeForce GTX 1080
Memory Size	8 GB GDDR5X
Real Base Clock	1721 MHz
Real Boost Clock	1860 MHz
Memory Speed	1706 MHz
Max Screen Resolution	7680 x 4320

Feature	Detail
Video Output Interface	HDMI, DisplayPort, DVI
Item Dimensions (LxWxH)	10.5 x 1.5 x 5.06 inches
Item Weight	3 pounds
Cooling Technology	EVGA ACX 3.0 (Dual Fans)
Additional Features	RGB LED, 10 Power Phases, Double BIOS, DX12 OSD Support, VR Ready

## WARRANTY INFORMATION

EVGA products are backed by a manufacturer's warranty. For specific warranty terms, duration, and registration details, please refer to the official EVGA website or the warranty card included with your product. Registering your product is recommended to ensure access to priority services and support.

*Note:* The provided JSON input indicates that EVGA offers protection plans. These are typically extended warranties or service plans available for purchase separately and are not part of the standard manufacturer's warranty.

## SUPPORT AND RESOURCES

For further assistance, driver downloads, and product information, please visit the official EVGA support channels:

- **Official EVGA Website:** [www.evga.com](http://www.evga.com)
- **Driver Downloads:** [www.evga.com/drivers/](http://www.evga.com/drivers/)
- **Product Support:** [www.evga.com/support/](http://www.evga.com/support/)
- **User Manual (PDF):** A comprehensive PDF user manual is available for download from the Amazon product page or EVGA's support section. [Download PDF Manual](#)

EVGA is known for its 24/7 customer service with knowledgeable representatives. Having your product registered can expedite support inquiries.