GIGABYTE GV-N1070IXEB-8GD

AORUS Gaming Box GTX 1070 eGPU User Manual

Model: GV-N1070IXEB-8GD

Introduction

Welcome to the user manual for your GIGABYTE AORUS Gaming Box GTX 1070. This external graphics processing unit (eGPU) is designed to transform your Ultrabook or laptop PC into a powerful gaming platform. Featuring the GIGABYTE GeForce GTX 1070 overclock edition graphics card, it delivers exceptional performance for graphics-intensive applications and virtual reality (VR) experiences. GIGABYTE's advanced thermal and overclocking technologies ensure high performance in a quiet operating environment.



Figure 1: AORUS Gaming Box GTX 1070 and its retail packaging.

What's in the Box

Upon unboxing your AORUS Gaming Box, please verify that all the following components are included:

- AORUS GTX 1070 Gaming Box
- Power Cord
- Installation Guide
- Driver CD
- Carry Bag

Technical Specifications

Feature	Specification
Model Number	GV-N1070IXEB-8GD
Graphics Coprocessor	NVIDIA GeForce GTX 1070
Graphics Card RAM Size	8 GB GDDR5
Memory Speed	8008 MHz
Max Screen Resolution	3840x2160
Video Output Interface	HDMI, DisplayPort, DVI
Power Supply Unit (PSU)	450W, >90% efficiency (80 plus Gold equivalent)
AC Input	100-240V ~ / 7-3.5A / 60-50Hz
Connectivity	Thunderbolt 3, 3x USB 3.0 ports (supports Quick Charge 3.0 and Power Delivery 3.0)
Dimensions (LxWxH)	6.38 x 3.78 x 8.35 inches
Item Weight	4.42 pounds

Setup Guide

Follow these steps to set up your AORUS Gaming Box:

1. **Power Connection:** Connect the provided power cord to the AORUS Gaming Box and then to a wall outlet.
2. **Thunderbolt 3 Connection:** Connect the AORUS Gaming Box to your laptop or PC using a Thunderbolt 3 cable. Ensure your computer has a Thunderbolt 3 port that supports external GPUs.
3. **Display Connection:** Connect your monitor(s) to the AORUS Gaming Box using the available HDMI, DisplayPort, or DVI outputs. The unit supports multi-view with up to 4 displays.
4. **Peripheral Connection:** You can connect USB peripheral devices such as a keyboard, mouse, or external storage to the three USB 3.0 ports on the Gaming Box. These ports also support Quick Charge (QC 3.0) and Power Delivery (PD 3.0) for compatible devices.
5. **Driver Installation:** Insert the provided Driver CD into your computer's optical drive and follow the on-screen instructions to install the necessary graphics drivers. Alternatively, download the latest drivers directly from the official GIGABYTE website for optimal performance and compatibility. It is highly recommended to refer to the User Manual and Application Guide from the Technical Specification before use.



Figure 2: Rear view of the AORUS Gaming Box, highlighting the power input, Thunderbolt 3 port, USB 3.0 ports, and video output interfaces (HDMI, DisplayPort, DVI).

Operating Instructions

Once the setup is complete and drivers are installed, your AORUS Gaming Box is ready for operation.

- **Power On/Off:** The Gaming Box will typically power on automatically when connected to a powered-on computer via Thunderbolt 3. Disconnect the Thunderbolt 3 cable or power off your computer to power down the Gaming Box.
- **Performance:** The embedded GeForce GTX 1070 will significantly boost your computer's graphics performance, enabling smooth gameplay for graphics-intensive titles and a seamless VR experience.
- **USB Ports:** Utilize the three USB 3.0 ports for connecting additional peripherals. These ports offer Quick Charge 3.0 and Power Delivery 3.0 capabilities for fast charging and efficient power delivery to compatible devices.
- **RGB Fusion Lighting:** The AORUS Gaming Box features RGB Fusion, allowing for 16.8 million customizable color lighting options. Use the GIGABYTE software (typically included on the driver CD or available for download) to personalize the lighting effects to match your setup.

Maintenance

To ensure the longevity and optimal performance of your AORUS Gaming Box, consider the following maintenance tips:

- **Cleaning:** Periodically clean the exterior of the unit with a soft, dry cloth. For dust accumulation on vents or fan grilles, use compressed air to gently clear debris. Ensure the unit is powered off and unplugged before cleaning.
- **Airflow:** Ensure the Gaming Box is placed in a location with adequate ventilation to prevent overheating. Do not block the air intake or exhaust vents.
- **Software Updates:** Regularly check the official GIGABYTE website for the latest graphics drivers and firmware updates. Keeping your software up-to-date can improve performance, stability, and introduce new features.

Troubleshooting

If you encounter issues with your AORUS Gaming Box, refer to the following common troubleshooting steps:

- **No Display Output:**
  - Ensure all cables (power, Thunderbolt 3, display) are securely connected.
  - Verify that your laptop/PC's Thunderbolt 3 port supports external GPUs.
  - Check if the correct display input is selected on your monitor.
  - Reinstall or update your graphics drivers.
- **Performance Issues / Low FPS:**
  - Ensure you are using the latest NVIDIA graphics drivers.
  - Verify that your game or application is configured to use the external GPU.
  - Check for background applications consuming system resources.
  - Monitor the unit's temperature to ensure it's not overheating. Ensure proper airflow.
- **Coil Whine:** Some users may experience a high-pitched sound, known as coil whine, under heavy load. This is often a characteristic of high-performance graphics cards and is generally not indicative of a fault.
  - Activating V-Sync in games can sometimes reduce coil whine by limiting frame rates.
  - Ensure the unit is placed on a stable surface to minimize vibrations.
- **USB Ports Not Functioning:**
  - Ensure the Thunderbolt 3 connection is stable.
  - Check device manager for any driver issues related to USB controllers.

For more detailed troubleshooting, refer to the official GIGABYTE support resources.

Warranty and Support

GIGABYTE products are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official GIGABYTE website.

Support Resources:

- **Official User Manuals:** You can find additional user guides and installation manuals in PDF format on the GIGABYTE support page or via the following links:
  - Installation Manual (PDF)
  - User Guide (PDF)
- **GIGABYTE Store:** For product information, drivers, and further support, visit the official GIGABYTE store or website:Visit the GIGABYTE Store
- **Customer Service:** Contact GIGABYTE customer service for technical assistance or warranty claims. Refer to the GIGABYTE website for contact details specific to your region.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question