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> [ASUS ROG XG Mobile \(2023\) External Graphics Card Docking Station Instruction Manual](#)

ASUS GC33Y-059

ASUS ROG XG Mobile (2023) External Graphics Card Docking Station Instruction Manual

Model: GC33Y-059

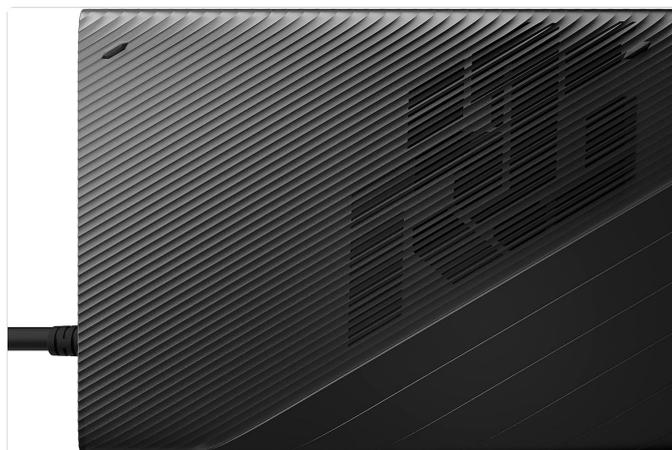
Brand: ASUS

PRODUCT OVERVIEW

The ASUS ROG XG Mobile (2023) is an external graphics card docking station designed to enhance the performance of ROG Flow Series laptops. It features an NVIDIA GeForce RTX 4090 Laptop GPU with a max TGP of 150W, transforming your mobile device into a powerful battlestation.

Beyond its graphics capabilities, the XG Mobile serves as an I/O expansion hub, providing extensive connectivity options through a proprietary PCIe connection. This allows for higher bandwidth and a comprehensive set of ports, including HDMI 2.1, DisplayPort 1.4, multiple USB 3.2 Gen2 ports (one Type-C), an SD card reader, and a 2.5G Ethernet port. It also integrates a 330W power adapter to power your Flow machine directly.

Designed for optimal performance, the XG Mobile incorporates advanced cooling technologies, including a vapor chamber on the GPU die and intelligent cooling, to maintain low temperatures and quiet operation even during demanding tasks.



Front view of the ASUS ROG XG Mobile (2023) External Graphics Card Docking Station, showcasing its compact design and textured surface.



Side view of the ASUS ROG XG Mobile (2023) External Graphics Card Docking Station, highlighting its extensive I/O ports including HDMI, DisplayPort, USB, and Ethernet.



Back view of the ASUS ROG XG Mobile (2023) External Graphics Card Docking Station, showing the power input and cooling vents.

This video provides a comprehensive overview of the ASUS ROG XG Mobile (2023) External Graphics Card Docking Station, showcasing its features and design.

SETUP GUIDE

Unboxing

Carefully unbox your ASUS ROG XG Mobile (2023) and ensure all components are present. The package includes the XG Mobile unit and one power cable.

This video demonstrates the unboxing and installation process for an external GPU docking station, providing a general guide for setting up similar devices like the ASUS ROG XG Mobile. (Note: This video features a different product model, MINISFORUM DEG1,

but the general installation steps are applicable.)

Connecting the XG Mobile

1. **Power Connection:** Connect the provided power cable to the XG Mobile's power input.
2. **Host Device Connection:** Connect the proprietary PCIe cable from the XG Mobile to your compatible ROG Flow Series laptop. Ensure the connection is secure and locked into place.
3. **Display Connection:** Connect your external monitor(s) to the XG Mobile using either the HDMI 2.1 or DisplayPort 1.4 outputs. The XG Mobile supports up to 7680x4320 resolution.



The ASUS ROG XG Mobile (2023) External Graphics Card Docking Station connected to a compatible ROG Flow laptop via its proprietary PCIe cable, demonstrating the compact setup.



A detailed view of the various ports on the ASUS ROG XG Mobile (2023) External Graphics Card Docking Station, including HDMI, DisplayPort, USB, and the proprietary PCIe connector.

Driver Installation

After connecting the XG Mobile, ensure your ROG Flow laptop's operating system and drivers are up to date. The system should automatically detect the XG Mobile and prompt for NVIDIA GeForce RTX 4090 driver installation. Follow the on-screen instructions to complete the driver setup.

This video illustrates the first-time setup process for an external graphics solution, including driver installation and initial configuration. (Note: This video features a different product model, Khadas Mind Graphics, but the general setup steps are applicable.)

OPERATING INSTRUCTIONS

Powering On/Off

The XG Mobile powers on automatically when connected to a powered ROG Flow laptop. To power off, ensure your laptop is properly shut down or disconnected from the XG Mobile.

Using the I/O Hub

The XG Mobile provides a variety of ports for expanded connectivity:

- **HDMI 2.1 & DisplayPort 1.4:** Connect up to four external monitors for multi-display setups.
- **USB 3.2 Gen2:** Four ports (one Type-C) for connecting peripherals like keyboards, mice, and external storage.
- **SD Card Reader:** For convenient data transfer from memory cards.
- **2.5G Ethernet Port:** For high-speed wired network connectivity.

Performance Modes

The XG Mobile automatically optimizes performance based on your system's needs. For specific control, refer to your ROG Flow laptop's software (e.g., Armoury Crate) for performance profile adjustments.

MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your ASUS ROG XG Mobile (2023), follow these maintenance guidelines:

- **Cleaning:** Regularly clean the exterior with a soft, dry cloth. Use compressed air to clear dust from vents and ports.
 - **Airflow:** Ensure the XG Mobile is placed in a well-ventilated area to allow for proper heat dissipation. Do not block the cooling vents.
 - **Temperature:** Avoid operating the device in extreme temperatures or direct sunlight.
 - **Cable Management:** Handle the proprietary PCIe cable with care to prevent damage.
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TROUBLESHOOTING

If you encounter issues with your ASUS ROG XG Mobile (2023), refer to the following common troubleshooting steps:

- **No Display Output:**
 - Ensure all display cables (HDMI/DisplayPort) are securely connected to both the XG Mobile and the monitor.
 - Verify that the XG Mobile's PCIe cable is firmly connected to your ROG Flow laptop.
 - Check if the external monitor is set to the correct input source.
 - Update your NVIDIA graphics drivers to the latest version.
- **Performance Issues:**
 - Confirm that your ROG Flow laptop's software (e.g., Armoury Crate) is set to a high-performance profile.
 - Ensure the XG Mobile is receiving adequate power.
 - Close unnecessary background applications on your laptop.
- **Compatibility:**

- The ASUS ROG XG Mobile (2023) is exclusively compatible with ASUS ROG Flow Series laptops. Ensure your laptop model is supported.

TECHNICAL SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 4090
Graphics Card RAM Size	24 GB
Memory Speed	24000 MHz
Max Screen Resolution	7680x4320
Video Output Interface	DisplayPort, HDMI
Power Adapter	Integrated 330W
Item Weight	4.71 pounds
Product Dimensions (LxWxH)	9.5 x 1.18 x 0.04 inches
Connectivity	Proprietary PCIe, 4x USB 3.2 Gen2 (1x Type-C), SD Card Reader, 2.5G Ethernet

WARRANTY AND SUPPORT

The ASUS ROG XG Mobile (2023) is covered by a manufacturer's warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the warranty card included with your product or visit the official ASUS support website.

For technical assistance, troubleshooting, or service requests, please contact ASUS customer support. You can find contact information and additional resources on the ASUS official website.
