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> [ASUS ROG Strix NVIDIA GeForce RTX 3070 V2 OC Edition Gaming Graphics Card User Manual](#)

## ASUS ROG-STRIX-RTX3070-O8G-V2-GAMING

# ASUS ROG Strix NVIDIA GeForce RTX 3070 V2 OC Edition Gaming Graphics Card User Manual

Brand: ASUS | Model: ROG-STRIX-RTX3070-O8G-V2-GAMING

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your ASUS ROG Strix NVIDIA GeForce RTX 3070 V2 OC Edition Gaming Graphics Card. This high-performance graphics card is designed for demanding gaming and creative applications, featuring PCIe 4.0 support, 8GB GDDR6 memory, HDMI 2.1, DisplayPort 1.4a, and an advanced Axial-tech fan design for superior cooling.



Figure 1.1: ASUS ROG Strix RTX 3070 V2 OC Edition Graphics Card

## 2. PACKAGE CONTENTS

Verify that all items listed below are present in your product package:

- ROG-STRIX-RTX3070-O8G-V2-GAMING Graphics Card
- ROG Velcro Hook & Loop Cable Ties
- ROG Ruler

- Collection Card
- Speedsetup Manual

## 3. SETUP AND INSTALLATION

### 3.1 Pre-Installation Checklist

- Ensure your power supply unit (PSU) has sufficient wattage and the necessary PCIe power connectors (e.g., 8-pin).
- Verify your motherboard has an available PCIe 4.0 x16 slot.
- Confirm your PC case has adequate space for the card's dimensions (12.5 x 5.5 x 0.04 inches, 2.9-slot design).
- Back up important data before making hardware changes.

### 3.2 Physical Installation

1. Power off your computer and unplug the power cord from the wall outlet.
2. Open your computer case.
3. Locate an available PCIe 4.0 x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.
4. Carefully align the graphics card with the PCIe slot and press it down firmly until it is securely seated. Ensure the retention clip on the motherboard clicks into place.
5. Secure the graphics card to the case with screws.
6. Connect the required PCIe power cables from your power supply to the graphics card's power connectors.
7. Close your computer case.





Figure 3.1: Graphics Card Display Outputs (HDMI and DisplayPort)

### 3.3 Driver Installation

1. Reconnect the power cord and turn on your computer.
2. Connect your monitor to one of the graphics card's display outputs (HDMI or DisplayPort).
3. Once Windows (or your operating system) loads, download the latest graphics drivers from the official NVIDIA website ([www.nvidia.com/drivers](http://www.nvidia.com/drivers)) or the ASUS support website ([www.asus.com/support](http://www.asus.com/support)).
4. Follow the on-screen instructions to complete the driver installation. A restart may be required.

## 4. OPERATION

### 4.1 Connecting Displays

The graphics card supports multiple display connections via its HDMI 2.1 and DisplayPort 1.4a outputs. Connect your monitors using compatible cables. For multi-monitor setups, configure display settings within

your operating system's display options or through the NVIDIA Control Panel after driver installation.

## 4.2 Software Utility (GPU Tweak II)

The ASUS GPU Tweak II utility allows you to monitor and fine-tune your graphics card's performance. You can adjust clock speeds, voltage, fan performance, and more. Download GPU Tweak II from the ASUS support website. Refer to the GPU Tweak II user guide for detailed instructions on its features and usage.

## 5. MAINTENANCE

### 5.1 Cleaning

Regularly clean your graphics card to prevent dust buildup, which can hinder cooling performance. Use compressed air to gently blow dust out of the heatsink fins and fan blades. Ensure the system is powered off and unplugged before cleaning. Do not use liquid cleaners directly on the card.

### 5.2 Driver Updates

Keep your graphics drivers updated to ensure optimal performance, stability, and compatibility with the latest games and applications. Check the NVIDIA website periodically for new driver releases.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your graphics card.

Problem	Possible Solution
No display output	<ul style="list-style-type: none"><li>• Ensure the monitor cable is securely connected to both the graphics card and the monitor.</li><li>• Verify the graphics card is fully seated in the PCIe slot and power cables are connected.</li><li>• Try a different display output port or cable.</li><li>• Check if your monitor is set to the correct input source.</li></ul>
Low performance in games/applications	<ul style="list-style-type: none"><li>• Ensure the latest graphics drivers are installed.</li><li>• Check if the card is receiving adequate power from the PSU.</li><li>• Monitor GPU temperatures to prevent thermal throttling.</li><li>• Verify game/application settings are not excessively high for the card's capabilities.</li></ul>
Driver crashes or instability	<ul style="list-style-type: none"><li>• Perform a clean installation of the graphics drivers.</li><li>• Ensure your operating system is up to date.</li><li>• Check for any conflicting software.</li><li>• Verify system memory (RAM) stability.</li></ul>

Problem	Possible Solution
Fans not spinning or making unusual noise	<ul style="list-style-type: none"> <li>• The fans may not spin at low temperatures due to 0dB technology; this is normal.</li> <li>• If fans are not spinning under load, check power connections.</li> <li>• Clean dust from fan blades.</li> <li>• If noise persists, contact ASUS support.</li> </ul>

## 7. SPECIFICATIONS

Key technical specifications for the ASUS ROG Strix NVIDIA GeForce RTX 3070 V2 OC Edition Gaming Graphics Card:

Feature	Detail
Graphics Coprocessor	NVIDIA GeForce RTX 3070
Graphics RAM Size	8 GB GDDR6
Video Output Interface	HDMI 2.1, DisplayPort 1.4a
Interface	PCIe 4.0
Cooling	Axial-tech Fan Design (Triple Fan)
Slot Design	2.9-Slot
Power Delivery	Super Alloy Power II
Product Dimensions	12.5 x 5.5 x 0.04 inches
Item Weight	4 pounds

## 8. WARRANTY AND SUPPORT

For specific warranty terms and conditions, please refer to the warranty card included in your product package or visit the official ASUS support website. Warranty coverage typically varies by region and purchase date.

For technical support, driver downloads, and further assistance, please visit the ASUS support portal:

<https://www.asus.com/support>

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**Related Documents - ROG-STRIX-RTX3070-O8G-V2-GAMING**



[ASUS TUF Gaming GeForce RTX 3070 Ti OC Edition Graphics Card - Product Information](#)

Detailed information about the ASUS TUF Gaming GeForce RTX 3070 Ti OC Edition Graphics Card, including specifications, features, and product details. Learn about its NVIDIA Ampere architecture, Axial-tech fan design, and military-grade components.



[ASUS Graphics Card Installation and Driver Guide](#)

Comprehensive guide from ASUS covering the installation, display connection, and driver setup for ASUS graphics cards. Includes safety information and compliance details.



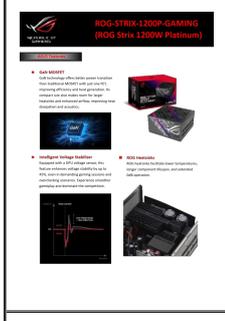
[ASUS ROG STRIX Power Supply Unit Quick Start Guide](#)

This document provides a quick start guide for the ASUS ROG STRIX Power Supply Unit, covering installation, safety precautions, and product features. It includes multilingual quick start information and compliance details.



[Ghid Electronic ASUS ROG Strix SCAR 18 \(2023\) G834 - Manual Complet](#)

Explorați manualul electronic complet pentru notebook-ul ASUS ROG Strix SCAR 18 (2023) G834. Descoperiți ghiduri detaliate despre configurarea hardware, utilizarea sistemului Windows, sfaturi de întreținere și soluții de depanare.



[ASUS ROG Strix 1200W Platinum Power Supply Unit - Features and Specifications](#)

Explore the features and specifications of the ASUS ROG Strix 1200W Platinum power supply unit, including GaN MOSFET, Intelligent Voltage Stabilizer, ROG Heatsinks, ATX 3.1 compatibility, and 10-year warranty.



[ASUS ROG Strix OLED XG32UCWMG User Guide](#)

User guide for the ASUS ROG Strix OLED XG32UCWMG monitor, covering setup, features like GamePlus and Aura Sync, and safety information.