ASUS RTX5060-O8G-LP-BRK

ASUS GeForce RTX 5060 LP BRK 8GB GDDR7 OC Edition Graphics Card User Manual

Model: RTX5060-O8G-LP-BRK

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your ASUS GeForce RTX 5060 LP BRK 8GB GDDR7 OC Edition Graphics Card. This low-profile, compact graphics card is designed for multi-monitor productivity and features a slim footprint to optimize space within small chassis. It incorporates dual ball bearings for enhanced durability, offering up to twice the lifespan of traditional sleeve-bearing designs.

Figure 1: ASUS GeForce RTX 5060 LP BRK Graphics Card and its retail packaging.

2. PRODUCT OVERVIEW AND KEY FEATURES

The ASUS GeForce RTX 5060 LP BRK OC Edition Graphics Card is built on the NVIDIA Blackwell architecture, offering advanced performance and features for various computing tasks. Key features include:

- **AI Performance:** 613 AI TOPS. OC Mode: 2580 MHz / Default Mode: 2550 MHz (Boost Clock).
- **NVIDIA Blackwell Architecture and DLSS 4:** Powered by the latest NVIDIA architecture for enhanced graphics and AI capabilities.
- **Low-Profile Design:** A compact form factor that conserves space, allowing for better cable management and airflow in smaller PC chassis.
- **IP5X Dust Resistance:** Provides protection against particle ingress, contributing to improved durability and fan longevity.
- **Dual Ball Fan Bearings:** Engineered for superior durability, these bearings can last up to twice as long as traditional

sleeve-bearing designs.

- **Auto-Extreme Technology:** Utilizes an automated manufacturing process to enhance reliability and precision.
- **GPU Tweak III Software:** Offers intuitive performance tweaking, advanced thermal control, and comprehensive system monitoring.
- **Recommended PSU:** A 550W power supply is recommended for optimal performance.
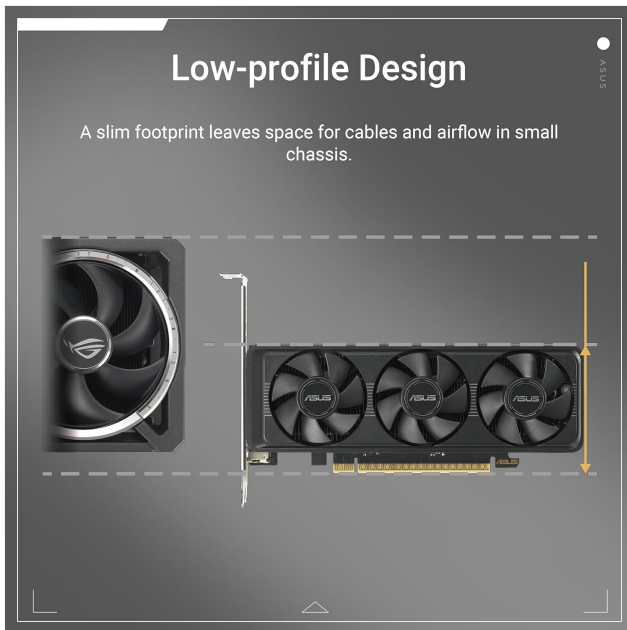

Figure 2: The low-profile design of the graphics card, ideal for compact systems.

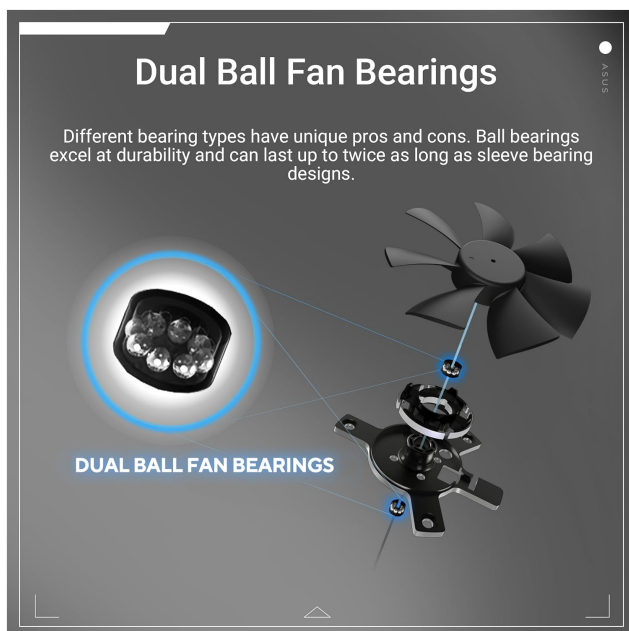Figure 3: IP5X dust resistance protects the fan from particle ingress.

Figure 4: Dual ball fan bearings offer extended lifespan and reliability.

Figure 5: The stainless steel bracket provides robust and corrosion-resistant mounting.

Video Overview

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Video 1: An overview of the ASUS Dual GeForce RTX 5060 Ti, highlighting key features and design elements. While a slightly different model, it showcases the general product line quality.

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Video 2: A promotional video for the ASUS Prime GeForce RTX 5050, demonstrating the brand's commitment to performance and design across its graphics card range.

3. Setup and Installation

Before installing your new graphics card, ensure your system meets the recommended power supply unit (PSU) requirement of 550W. Always power off your computer and disconnect it from the power source before opening the chassis.

1. **Prepare Your System:** Power down your computer and unplug all cables. Open your PC case to access the motherboard.
2. **Locate PCIe Slot:** Identify an available PCIe 5.0 x16 slot on your motherboard.
3. **Remove Old Graphics Card (if applicable):** If replacing an existing card, carefully unmount it and disconnect any power cables.
4. **Install New Graphics Card:** Align the graphics card with the PCIe slot and press down firmly until it clicks into place. Secure the card with the chassis screw.
5. **Connect Power:** Connect the necessary power cables from your PSU to the graphics card. Refer to your PSU manual for correct cable identification.
6. **Close Chassis and Connect Peripherals:** Close your PC case, reconnect all peripherals (monitor, keyboard, mouse, etc.), and power on your system.
7. **Driver Installation:** Once your operating system loads, install the latest NVIDIA GeForce drivers from the official NVIDIA website (nvidia.com/drivers) or the ASUS support page.

Figure 6: The graphics card connected to a compatible power supply unit.

4. OPERATING YOUR GRAPHICS CARD

Your ASUS GeForce RTX 5060 LP BRK graphics card is designed for optimal performance out of the box. For advanced users, the following options are available:

Dual BIOS Modes

The graphics card features a Dual BIOS switch, allowing you to toggle between two distinct performance profiles:

- **Performance Mode (P Mode):** Prioritizes maximum clock speeds and fan performance for demanding tasks.
- **Quiet Mode (Q Mode):** Optimizes fan curves for quieter operation, ideal for less intensive workloads or noise-sensitive environments.

GPU Tweak III Software

Utilize the ASUS GPU Tweak III software for comprehensive control over your graphics card. This utility allows for:

- Intuitive performance tweaking (overclocking).
- Advanced thermal control and fan speed adjustments.
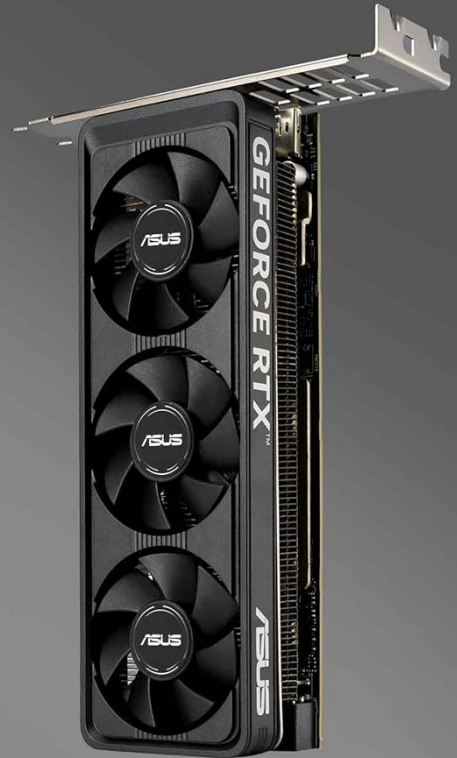- Real-time system monitoring.

Figure 7: GPU Tweak III software for fine-tuning your graphics card.

MuseTree Software

MuseTree is an AI-powered image-generation application designed to enhance creativity. It allows users to effortlessly create and manage images and visual ideas, unlocking new inspirations.

Figure 8: MuseTree software for AI-powered image generation.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your graphics card. The ASUS GeForce RTX 5060 LP BRK is designed with features to minimize maintenance needs:

- **Dust Resistance:** The IP5X dust resistance rating helps prevent dust and particles from entering the fan assembly, reducing the need for frequent cleaning.
- **Fan Longevity:** Dual ball fan bearings are inherently more durable than traditional sleeve bearings, contributing to a longer operational lifespan for the fans.

For general cleaning, ensure the system is powered off and unplugged. Use compressed air to gently remove dust from the fan blades and heatsink fins. Avoid using liquid cleaners directly on the card.

6. TROUBLESHOOTING

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

- **No Display Output:** Ensure the monitor cable is securely connected to the graphics card and the monitor. Verify that the graphics card is properly seated in the PCIe slot and all power connectors are attached.
- **Driver Issues:** Uninstall existing graphics drivers and perform a clean installation of the latest drivers from the NVIDIA or ASUS support website.
- **System Instability/Crashes:** Check your power supply unit (PSU) to ensure it meets the recommended 550W. Monitor temperatures using GPU Tweak III to rule out overheating.
- **Performance Degradation:** Ensure your system's cooling is adequate. Check for background applications consuming resources. Verify that the graphics card is operating in Performance Mode if desired.

For further assistance, please visit the official ASUS support website or contact their customer service.

7. SPECIFICATIONS

Feature	Specification
Graphics Coprocessor	NVIDIA GeForce RTX 5060
Brand	ASUS
Graphics RAM Size	8 GB GDDR7
GPU Clock Speed	2580 MHz (OC Mode) / 2550 MHz (Default Mode)
Max Screen Resolution	7680x4320 Pixels
Video Output Interface	1 x Native DisplayPort 2.1a, 2 x Native HDMI 2.1
Item Model Number	RTX5060-O8G-LP-BRK
Item Weight	12.8 ounces
Product Dimensions	6.9 x 2.7 x 0.1 inches
Color	BLACK
Recommended PSU	550W

8. PACKAGE CONTENTS

The following items are included in your product package:

- RTX5060-O8G-LP-BRK graphics card
- Speedsetup Manual
- Thank you Card
- LP Bracket

9. WARRANTY AND SUPPORT

Your ASUS GeForce RTX 5060 LP BRK Graphics Card comes with a 3-Year Limited Warranty. For specific details regarding your warranty coverage, please refer to the warranty information provided with your product or visit the official ASUS support website.

For technical support, driver downloads, and additional resources, please visit the ASUS Support website: https://www.asus.com/support/

Amazon offers a 30-day return/replacement policy for this product. Please refer to Amazon's return policy for more details.