ASUS TFH-01/BK/6 ARGB/6 PWM

ASUS TUF Gaming ARGB PWM Fan Hub User Manual

Model: TFH-01/BK/6 ARGB/6 PWM

Image: The ASUS TUF Gaming ARGB PWM Fan Hub shown alongside its retail packaging, highlighting the product's design and branding.

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the ASUS TUF Gaming ARGB PWM Fan Hub. This device is designed to centralize control of up to six case fans, offering both Pulse Width Modulation (PWM) for fan speed control and Addressable RGB (ARGB) for lighting synchronization. It ensures efficient cooling and aesthetic customization for your PC build.

SAFETY INFORMATION

Please read and understand all safety precautions before installing or operating the fan hub. Failure to do so may result in damage to the product, other components, or personal injury.

- Ensure your PC is powered off and unplugged from the wall outlet before installation.
- Handle the fan hub and cables with care to avoid damage to connectors or components.
- Do not expose the device to moisture or extreme temperatures.
- Only use the provided cables or compatible replacements.
- The hub is designed for internal PC use only.
- Do not attempt to disassemble or modify the fan hub.

PACKAGE CONTENTS

Verify that all items are present in the package:

- ASUS TUF Gaming ARGB PWM Fan Hub
- PWM signal cable
- ARGB signal cable
- User Manual (this document)

PRODUCT OVERVIEW

The ASUS TUF Gaming ARGB PWM Fan Hub is a compact and efficient solution for managing multiple fans and ARGB devices within your PC case. Key features include:
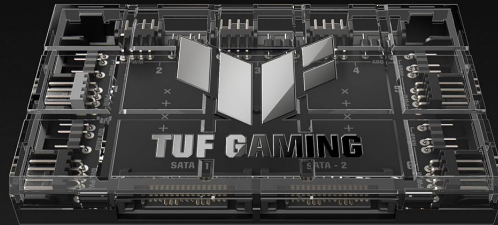
- **Six Fan Ports:** Supports up to six PWM fans for synchronized speed control.
- **Six ARGB Ports:** Connects up to six Addressable RGB devices for customizable lighting effects.
- **Dual SATA Power Input:** Provides stable and sufficient power (up to 45W for ARGB and 108W for PWM) directly from your power supply unit (PSU), reducing load on the motherboard.
- **Safety Fuses:** Integrated overcurrent and short-circuit protection for enhanced system safety.
- **Magnetic Mounting:** Allows for easy and secure attachment to any metal surface inside your PC case.
- **Clear Indicators:** Visible power and operational indicators provide real-time status of connected ports.

Image: An illustration showing the ASUS TUF Gaming ARGB PWM Fan Hub connected to multiple fans and ARGB lighting components within a computer case, demonstrating its capacity to manage up to six fans and ARGB devices.

Dual SATA Power Inputs

Stable power input via dual SATA ports directly from the PSU, ensuring a stable and consistent power supply.

45W
Total ARGB Power Support

108W
Total PWM Power Support

Image: A detailed view of the ASUS TUF Gaming ARGB PWM Fan Hub, highlighting its dual SATA power input ports and indicating the total ARGB and PWM power support (45W and 108W respectively).

Safety Fuses

Provide overcurrent and short-circuit protection to safeguard your build and ensure uninterrupted performance.
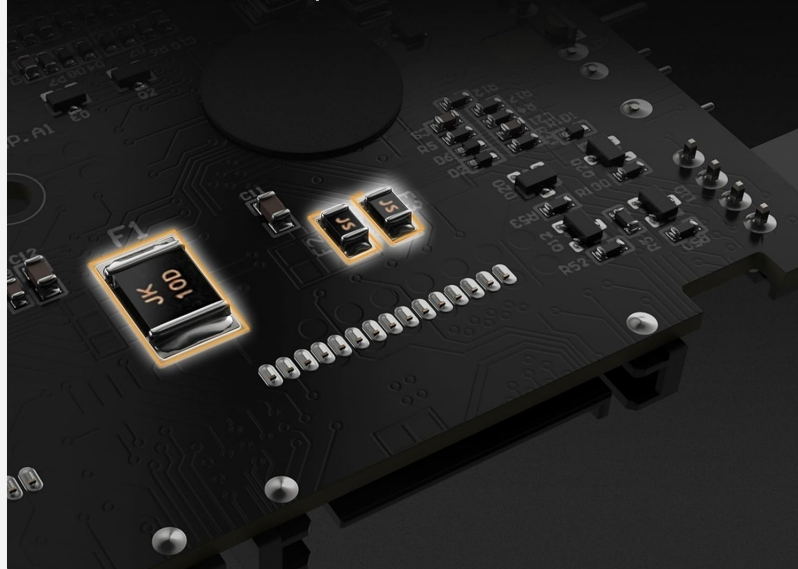
Image: A magnified view of the circuit board within the ASUS TUF Gaming ARGB PWM Fan Hub, specifically showing the integrated safety fuses designed for overcurrent and short-circuit protection.

SETUP AND INSTALLATION

Follow these steps to install your ASUS TUF Gaming ARGB PWM Fan Hub:

1. **Prepare your PC:** Power off your computer and unplug it from the power outlet. Open your PC case to access

the interior.

2. **Mount the Fan Hub:** The fan hub features magnetic mounting. Choose a suitable flat metal surface inside your PC case, typically behind the motherboard tray or in an unused drive bay area, and simply place the hub onto it. Ensure it is securely attached.

3. **Connect Power:** Connect two SATA power cables from your Power Supply Unit (PSU) to the dual SATA power input ports on the fan hub. Ensure both connections are firm.

4. **Connect Fans:**
   - For PWM control, connect your case fans' 4-pin PWM cables to the PWM fan headers on the hub (labeled PWM 1-6).
   - For ARGB lighting, connect your ARGB devices' 3-pin ARGB cables to the ARGB headers on the hub (labeled ARGB 1-6). Ensure correct pin orientation to avoid damage.

5. **Connect to Motherboard:**
   - Connect the included PWM signal cable from the fan hub's "MB PWM" port to an available 4-pin PWM fan header on your motherboard (e.g., CPU_FAN, CHA_FAN). This allows the motherboard to control fan speeds.
   - Connect the included ARGB signal cable from the fan hub's "MB ARGB" port to an available 3-pin 5V Addressable RGB header on your motherboard. This enables software control of ARGB lighting.

6. **Cable Management:** Route all cables neatly to ensure proper airflow and a clean build.

7. **Final Check:** Double-check all connections before closing your PC case and powering on.
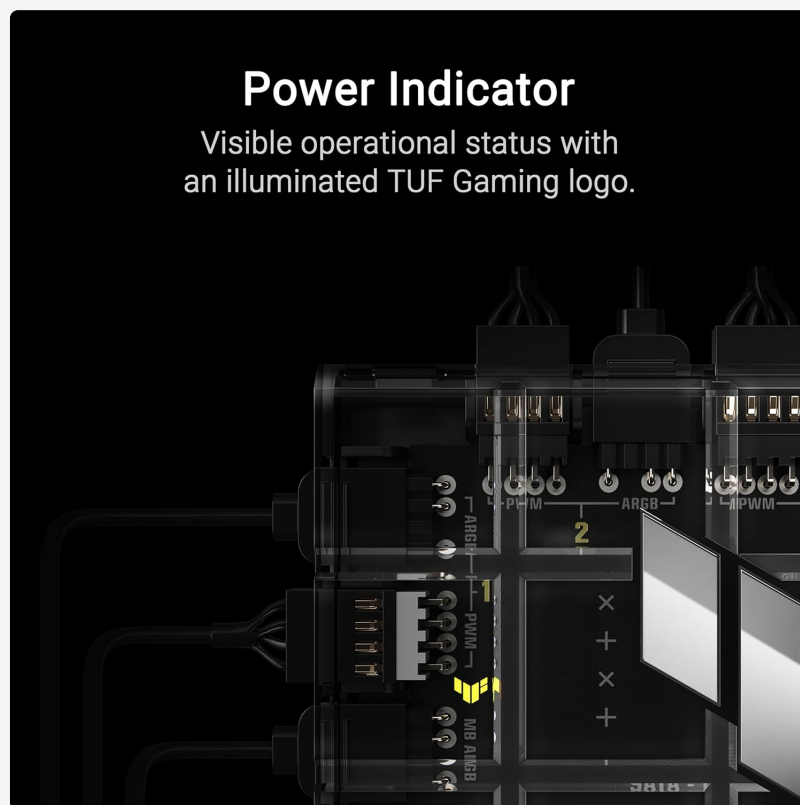

Image: A close-up view of the ASUS TUF Gaming ARGB PWM Fan Hub, illustrating the illuminated TUF Gaming logo which serves as a visible power indicator, confirming the device is receiving power.
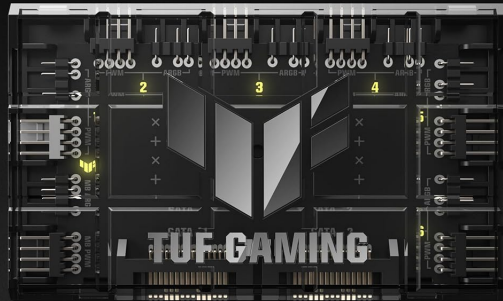
Image: An overhead perspective of the ASUS TUF Gaming ARGB PWM Fan Hub, highlighting the individual operational indicator lights that illuminate when a fan or ARGB device is correctly plugged into its corresponding port, providing clear status feedback.

OPERATING INSTRUCTIONS

Once properly installed and connected, the ASUS TUF Gaming ARGB PWM Fan Hub operates automatically. Fan speed control and ARGB lighting synchronization are managed through your motherboard's software (e.g., ASUS Aura Sync, Fan Xpert) or BIOS settings, provided the signal cables are connected to the motherboard headers.

- **Fan Speed Control:** Adjust fan curves and speeds via your motherboard's BIOS or dedicated fan control software. The hub will relay these commands to all connected PWM fans.
- **ARGB Lighting Control:** Use your motherboard's ARGB software (e.g., ASUS Aura Sync) to customize lighting effects, colors, and patterns for all connected ARGB devices.
- **Indicators:** Observe the power indicator (TUF Gaming logo) and individual port operational indicators to confirm proper functionality.

MAINTENANCE

The ASUS TUF Gaming ARGB PWM Fan Hub requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Periodically clean the hub and its surroundings with a soft, dry cloth to remove dust buildup. Ensure the PC is powered off and unplugged before cleaning. Do not use liquid cleaners.
- **Cable Integrity:** Regularly check that all cables are securely connected and free from kinks or damage.
- **Environment:** Ensure the PC case has adequate airflow to prevent excessive heat buildup around the hub.

TROUBLESHOOTING

If you encounter issues with your ASUS TUF Gaming ARGB PWM Fan Hub, refer to the following common

problems and solutions:

Problem	Possible Cause	Solution
Hub not powering on (TUF logo not lit)	No power from PSU; loose SATA connection.	Ensure both SATA power cables are securely connected from the PSU to the hub. Check PSU functionality.
Fans not spinning or not controllable	Loose PWM fan cable; loose MB PWM signal cable; incorrect BIOS/software settings.	Verify all PWM fan cables are firmly connected to the hub. Ensure the MB PWM signal cable is connected to a functional motherboard fan header. Check motherboard BIOS or software for fan control settings.
ARGB lighting not working or not controllable	Loose ARGB cable; loose MB ARGB signal cable; incorrect ARGB software settings; incompatible ARGB device.	Verify all ARGB device cables are firmly connected to the hub. Ensure the MB ARGB signal cable is connected to a 3-pin 5V Addressable RGB header on your motherboard (not 4-pin 12V RGB). Check ARGB software (e.g., ASUS Aura Sync) settings. Confirm ARGB devices are compatible.
Individual port indicator not lighting up	Device not properly connected to that port; faulty device.	Reconnect the device to the port. Try connecting a different, known-working device to the same port to isolate the issue.

SPECIFICATIONS

Feature	Detail
Model Number	TFH-01/BK/6 ARGB/6 PWM
Dimensions (L x W x H)	6" x 4.1" x 1.1" (15.24 cm x 10.41 cm x 2.79 cm)
Weight	5.29 ounces (150 grams)
Fan Ports	6 x 4-pin PWM
ARGB Ports	6 x 3-pin 5V Addressable RGB
Power Input	Dual SATA Power Connectors
Max ARGB Power Support	45W
Max PWM Power Support	108W
Mounting	Magnetic
Protection	Overcurrent and Short-circuit (Safety Fuses)
Compatible Devices	Desktop PCs, Gaming Consoles (as applicable for fan/RGB control)

WARRANTY AND SUPPORT

ASUS products are designed with quality and reliability in mind. For detailed warranty information, please refer to

the warranty card included with your product or visit the official ASUS support website. Keep your purchase receipt as proof of purchase for warranty claims.

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

www.asus.com/support/

You may also contact ASUS customer service directly for personalized assistance.