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Thermalright FAN ARGB HUB

Thermalright ARGB Fan Hub Controller Rev. A

USER MANUAL

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Support

1. Introduction

This manual provides instructions for the installation and operation of the Thermalright ARGB Fan Hub Controller Rev. A. This device is designed to expand the Addressable RGB (ARGB) lighting capabilities within your PC system, allowing you to connect and synchronize up to 10 ARGB devices. Thermalright is a brand with over 20 years of experience in PC cooling and components, known for its influence in the enthusiast market.

2. Safety Information

- Ensure proper handling of all components to prevent damage.
- Always disconnect power from your PC before installing or removing any components.
- **Important:** The product supply voltage is 12V. It supports 5V ARGB 3-pin fan light interface connections.
- **Warning:** 12V 4-pin RGB interface devices are not supported. Attempting to insert them will cause damage.
- Keep the device away from liquids and extreme temperatures.

3. Package Contents

Verify that all items are present in your package:

- Thermalright ARGB Fan Hub Controller Rev. A
- PWM Signal Cable
- SATA Power Cable
- Double-sided adhesive tape for mounting



Image: The Thermalright ARGB Fan Hub Controller Rev. A shown with its included PWM signal cable, SATA power cable, and double-sided adhesive tape.

4. Product Overview

The Thermalright ARGB Fan Hub Controller Rev. A is a compact device designed to centralize the control of Addressable RGB (ARGB) lighting for up to 10 fans or other ARGB devices. It features a direct SATA power input for stable output under high load and uses a PWM signal cable to connect to your motherboard for synchronization.

TL-ARGB HUB Controller REV.A

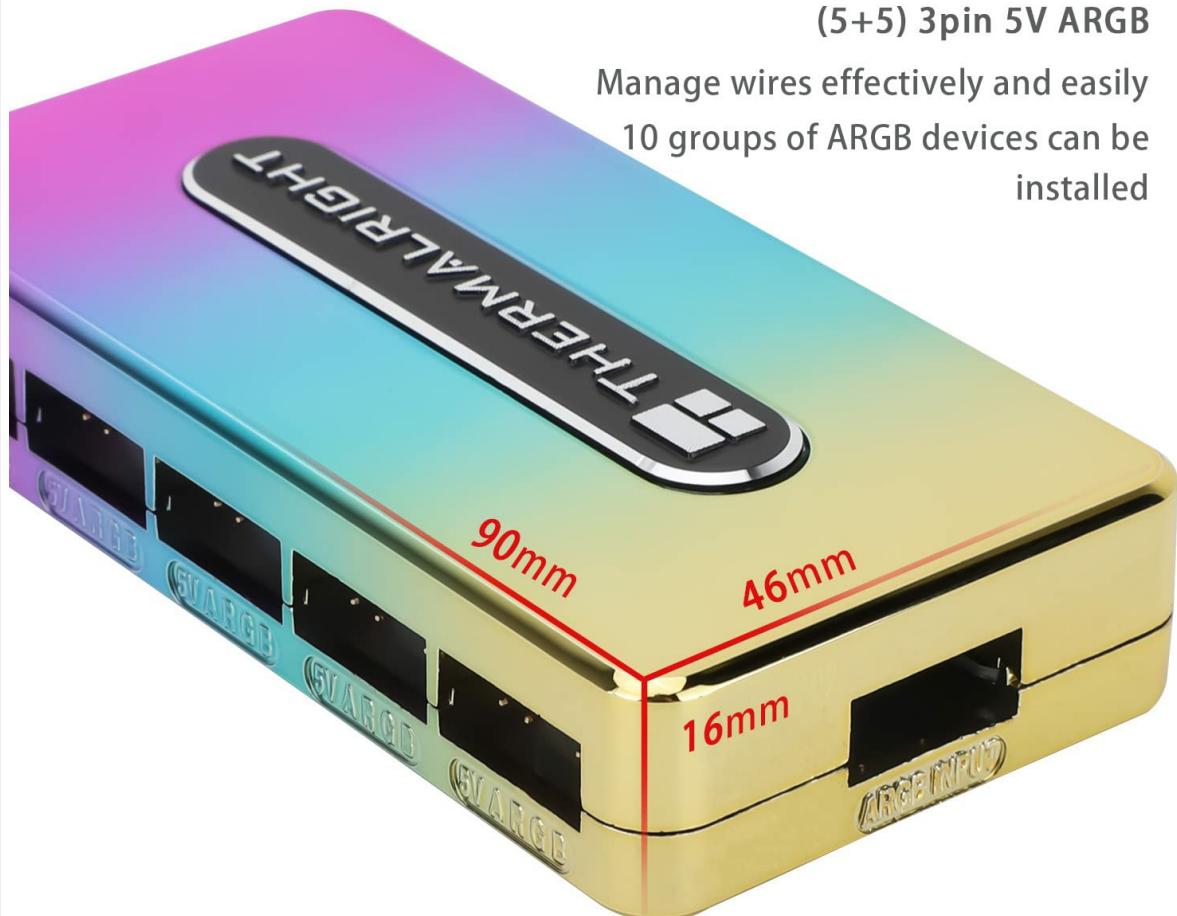


Image: The ARGB Fan Hub Controller Rev. A, displaying its dimensions of 90mm (length) x 46mm (width) x 16mm (height).



SATA direct power input, continuous and stable output under overload conditions

double-sided stickers in package fixed on case with it



Image: A close-up view of the 3-pin 5V ARGB ports on the hub, labeled for connection of ARGB fans and light strips.

5. Setup and Installation

Follow these steps to install your Thermalright ARGB Fan Hub Controller:

- 1. Connect PWM Signal Cable:** Connect one end of the PWM signal cable to the PWM INPUT socket on the fan hub. Connect the other end to a FAN socket on your motherboard. This allows the motherboard to control fan speeds.
- 2. Connect SATA Power Cable:** Connect the SATA power cable to the hub's SATA input port. Then, connect the other end of the SATA power cable to an available SATA power connector from your power supply unit (PSU). This provides power to the hub and connected ARGB devices.
- 3. Install Fan Cables:** Connect your ARGB fan cables to the labeled "FAN" sockets on the hub. Ensure correct orientation. Note that fan speed readings are typically only available from the red-colored socket.
- 4. Mount the Hub:** Apply the provided double-sided adhesive tape to the back of the fan hub. Choose a suitable, flat location inside your PC case, typically behind the motherboard tray, and firmly press the hub into place.

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Video: An installation tutorial demonstrating how to connect the PWM signal cable, SATA power cable, and fan cables to the Thermalright ARGB Fan Hub, and how to mount it inside a PC case.

PACKING DETAILS

TL-ARGB HUB CONTROLLER REV.A



Image: Illustrates the SATA direct power input to the hub and a warning against connecting 12V 4-pin RGB devices to the 5V ARGB motherboard header.

6. Operating the ARGB Fan Hub

Once installed, the Thermalright ARGB Fan Hub Controller Rev. A will allow your connected ARGB fans and other devices to synchronize their lighting effects with your motherboard. The hub itself does not have controls for adjusting lighting colors or patterns. These adjustments are managed through your motherboard's dedicated ARGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, Gigabyte RGB Fusion, ASRock Polychrome Sync) or a separate ARGB controller if your motherboard lacks a 3-pin 5V ARGB header.

7. Maintenance

The Thermalright ARGB Fan Hub Controller Rev. A requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the hub free from dust and debris. Periodically use compressed air to clean around the ports.
- Avoid exposing the device to moisture or corrosive substances.

- Ensure all cable connections remain secure.

8. Troubleshooting

If you encounter issues with your ARGB Fan Hub, consider the following:

- **No ARGB Lighting:**

- Check if the SATA power cable is securely connected to both the hub and the PSU.
- Verify that the 3-pin 5V ARGB cables from your fans are correctly inserted into the hub's ports. Ensure no pins are bent or misaligned.
- Confirm that the PWM signal cable is properly connected to both the hub and the motherboard's ARGB header.
- Ensure your motherboard's ARGB software is installed and configured correctly.
- Double-check that you are not attempting to connect 12V 4-pin RGB devices, as these are incompatible and can cause damage.

- **Incorrect Fan Speed Readings:**

- The hub typically reads fan speed only from the designated red-colored fan socket. Ensure the fan you wish to monitor is connected to this specific port.
- Verify the PWM signal cable connection to the motherboard.

- **Loose Connections:** If lights or fans intermittently stop working, check all cable connections (SATA power, PWM signal, and fan ARGB cables) to ensure they are firmly seated.

9. Specifications

ARGB FAN HUB SPECIFICATION	
Dimensions	L 90mm * W 46mm * H 16mm
Weight	50g
Colour	Rainbow color
Power input	SATA
Pated current	1A(MAX)per port
Port	+5V 3pin PWM
Operating temperature	0°C~75°C

Image: A table summarizing the key specifications of the Thermalright ARGB Fan Hub Controller Rev. A.

Feature	Specification
Model	ARGB HUB Controller Rev. A (FAN ARGB HUB)
Dimensions (L x W x H)	90mm x 46mm x 16mm (3.54" x 1.81" x 0.63")
Weight	50g (3.21 ounces)
Material	Acrylonitrile Butadiene Styrene (ABS)
Color	Silver Gray (Rainbow color casing)
Power Input	SATA

Feature	Specification
Rated Current (per port)	1A (MAX)
Port Type	+5V 3-pin ARGB
Operating Temperature	0°C ~ 75°C
Number of ARGB Ports	10
Voltage	12 Volts (DC)

10. Warranty and Support

Thermalright products are manufactured to high-quality standards. For warranty information, technical support, or any inquiries regarding your ARGB Fan Hub Controller, please refer to the official Thermalright website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.