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Thermalright 5V 3PIN controller

Thermalright 5V 3PIN A-RGB Fan Controller User Manual

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1. INTRODUCTION

This user manual provides comprehensive instructions for the Thermalright 5V 3PIN A-RGB Fan Controller. This device is designed to manage the lighting effects of 5V A-RGB fans, particularly useful for motherboards with insufficient or absent 5V lighting interfaces. It operates via SATA power, eliminating the need for a direct motherboard connection for lighting control.



Figure 1: Thermalright 5V 3PIN A-RGB Fan Controller and its packaging.

2. SAFETY INFORMATION

- Ensure your power supply unit (PSU) is turned off and unplugged before installation to prevent electrical shock or damage to components.
- Handle all components with care to avoid physical damage.
- Do not exceed the current limit of 6 A-RGB fans in series when using SATA power. The maximum output current is 2A.
- Connect only 5V 3PIN A-RGB devices to the controller. Connecting incompatible devices may cause damage.
- Keep the controller away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Thermalright 5V 3PIN A-RGB Fan Controller (1x)

PACKING DETAILS

5V/3PIN ARGB



Figure 2: The controller and its packaging, showing the included components.

4. SPECIFICATIONS

Product Dimensions	0.3 x 0.25 x 0.2 inches
Item Model Number	5V 3PIN controller
Manufacturer	Thermalright
Power Connector Type	SATA (Input), 3-Pin (Output for ARGB)
Voltage	5V (for ARGB lighting)
Output Current (Max)	2A
Compatible Devices	Desktop PCs with 5V 3PIN A-RGB devices
Material	Plastic

5V RGB SPECIFICATION

Power supply access interface	SATA
Access to power supply	+5V
Output current	2A
Output current	3PIN

Figure 3: Visual representation of the 5V RGB specification details.

5. SETUP & INSTALLATION

Follow these steps to install your Thermalright 5V 3PIN A-RGB Fan Controller:

- 1. Connect to SATA Power:** Connect the controller's SATA power connector to an available SATA power cable from your power supply unit (PSU). Ensure a secure connection. This provides power to the controller and connected A-RGB devices.

SATA POWERED

The SATA interface allows you to control the controller mode, brightness, and frequency at will, so you don't need to worry about motherboard compatibility. The SATA power supply mode has a current limit of no more than 6 RGB fans in series.



Figure 4: The controller's SATA power input, ready for connection to your PSU.

2. **Connect A-RGB Devices:** Connect your 5V 3PIN A-RGB fans or other compatible lighting devices to the 3-pin ARGB output on the controller. The controller can support up to 6 A-RGB fans in series.

Computer Case ARGB Fan Controller Fan Hub Support standard 3pin/5v



Figure 5: The A-RGB controller with its input and output cables.

3. **Power On:** Once all connections are secure, you can power on your PC. The A-RGB devices connected to the controller will illuminate.

Installation Video Guide:

Your browser does not support the video tag.

Video 1: A detailed installation guide for the Thermalright 5V ARGB LED fan controller, demonstrating how to connect the SATA power and ARGB devices.

Your browser does not support the video tag.

Video 2: An overview of the Thermalright 5V A-RGB Computer Fan Controller, showcasing its features and basic connections.

6. OPERATING INSTRUCTIONS

The controller features three buttons for managing your A-RGB lighting effects:

- **"S" Button (Light Effect Frequency):** Press the "S" button to cycle through 5 different light effect frequencies. This button is active only when the lighting mode is dynamic.
- **"M" Button (Lighting Modes):** Use the "M" button to switch between various lighting modes.

Options include static colors, dynamic rainbow effects, and color unidirectional modes, offering over a dozen different color cycles.

- **"B" Button (Brightness):** The "B" button allows you to adjust the brightness of the A-RGB lighting. There are 5 brightness levels to cycle through.

LINE CONTROL BOX BUTTON FUNCTION



Figure 6: Explanation of the controller's S, M, and B button functions.

7. MAINTENANCE

To ensure the longevity and optimal performance of your controller:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the controller to direct sunlight or high humidity.
- Do not attempt to disassemble or modify the controller, as this will void the warranty and may cause damage.

8. TROUBLESHOOTING

If you encounter issues with your controller, refer to the following common problems and solutions:

- **No lighting/power:**

- Ensure the SATA power cable is securely connected to both the controller and the PSU.
- Verify that the PSU is powered on.
- Check if the A-RGB devices are correctly connected to the controller's 3-pin interface.

- **Lights not changing modes/brightness:**

- Press the "M" button to cycle through different modes. Some modes may be static.
- Press the "S" button to adjust effect frequency for dynamic modes.
- Press the "B" button to adjust brightness.

- **Inconsistent lighting:**

- Ensure that the total number of connected A-RGB fans does not exceed the recommended limit of 6 in series to avoid power issues.
- Check for loose connections on any of the A-RGB devices.

9. WARRANTY & SUPPORT

Thermalright products are manufactured to the highest quality standards. For specific warranty details and technical support, please refer to the official Thermalright website or contact their customer service directly. Keep your proof of purchase for warranty claims.