Thermalright 5V 3PIN controller

Thermalright 5V A-RGB Computer Fan Controller Instruction Manual

Brand: Thermalright | Model: 5V 3PIN controller

1. INTRODUCTION

This manual provides detailed instructions for the installation and operation of your Thermalright 5V A-RGB Computer Fan Controller. This device is designed to manage the lighting effects of 5V 3-pin Addressable RGB (A-RGB) fans and lighting accessories, especially useful for systems where the motherboard lacks a dedicated 5V A-RGB header. It draws power directly from a SATA connector, ensuring compatibility without requiring motherboard connectivity.

2. WHAT'S IN THE BOX

- Thermalright 5V 3PIN A-RGB Controller

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 2.1: Packaging details showing the Thermalright 5V A-RGB Controller and its components.

3. SPECIFICATIONS

Feature	Detail
Product Dimensions	1.96 x 0.04 x 2.7 inches
Item Weight	1.13 ounces
Model Number	5V 3PIN controller
Brand	Thermalright
Power Connector Type	SATA, 3-Pin
Voltage	5 Volts
Compatible Devices	Personal Computer, Computer Fan
UPC	755225219262

5V RGB SPECIFICATION

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

Figure 3.1: Detailed specifications for the 5V A-RGB Controller.

4. SETUP AND INSTALLATION

Follow these steps to correctly install your Thermalright 5V A-RGB Computer Fan Controller:

1. **Power Connection:** Connect the SATA power connector of the controller to an available SATA power cable from your power supply unit (PSU). Ensure a secure connection.

2. **A-RGB Device Connection:** Connect your 5V 3-pin A-RGB devices (e.g., fans, LED strips) to the 3-pin A-RGB connector on the controller. The controller supports daisy-chaining multiple A-RGB devices, but note that the SATA power supply mode has a current limit of no more than 6 RGB fans in series.

3. **Placement:** Position the controller in a convenient location within your PC case, ensuring the control buttons are accessible if you plan to manually adjust lighting effects.

BUTTON FUNCTIONS

Brightness Mode Speed

LED brightness can be adjusted in some selected lighting modes.

5V ARGB

Luminous

Static, dynamic and many more 5V addressable RGB lighting effects.

Color or color shift speed can be adjusted in some selected lighting modes.

Figure 4.1: The SATA interface provides power to the controller, eliminating the need for motherboard compatibility.

Setup Video Guide:

Your browser does not support the video tag.

Video 4.1: This video demonstrates the connection process for the Thermalright 5V A-RGB Computer Fan Controller, showing how to connect it to a SATA power cable and a 5V A-RGB device.

5. OPERATING INSTRUCTIONS

The Thermalright 5V A-RGB Controller features three buttons for easy control of your lighting effects:

- **M Button (Mode):** Press the 'M' button to cycle through various lighting modes. These include static colors, dynamic rainbow effects, and other color cycling patterns. The controller retains the last selected mode even after power cycling.

- **B Button (Brightness/Color):** This button controls the brightness or specific color within certain modes.
    - In static color modes, the 'B' button cycles through a selection of static colors (e.g., White, Red, Blue, Green, Yellow, Cyan, Magenta).
    - In dynamic modes, the 'B' button adjusts the brightness level, offering 5 distinct levels.

- **S Button (Speed/Luminous):** The 'S' button adjusts the speed of dynamic lighting effects or acts as a luminous control in certain modes.
    - When a dynamic lighting mode is active, the 'S' button cycles through 5 speed settings for the effect.
    - When a static lighting mode is active, the 'S' button may adjust the luminous intensity or a related effect, depending on the specific mode.

Figure 5.1: Overview of the controller's buttons and their respective functions for adjusting lighting effects.

6. MAINTENANCE

The Thermalright 5V A-RGB Computer Fan Controller requires minimal maintenance. Keep the device free from dust and moisture. Ensure all connections remain secure. Do not attempt to disassemble the controller, as this may void any warranty.

7. TROUBLESHOOTING

- **No Lights/Power:**
  - Ensure the SATA power connector is firmly seated in both the controller and the PSU's SATA power cable.
  - Verify that the PSU is powered on and functioning correctly.
  - Check the connection between the A-RGB device and the controller's 3-pin connector. Ensure correct orientation.

- **Incorrect Colors/Effects:**
  - Cycle through the modes using the 'M' button to ensure the desired effect is selected.
  - Adjust brightness/color using the 'B' button and speed using the 'S' button.
  - Ensure your A-RGB devices are 5V 3-pin compatible. This controller is not compatible with 12V 4-pin RGB devices.

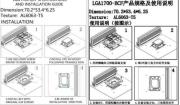- **Lights Flicker or Malfunction:**
  - Check for loose connections.
  - Ensure you are not exceeding the recommended limit of 6 A-RGB fans in series for the SATA power mode. Overloading can cause instability.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Thermalright website or contact your retailer. Keep your proof of purchase for warranty claims.

Related Documents - 5V 3PIN controller

	[Thermalright Assassin X 120 Refined SE CPU Cooler Installation Guide](#) Comprehensive installation guide for the Thermalright Assassin X 120 Refined SE CPU cooler, covering AMD AM4 and Intel LGA 115x, 1200, and 1700 socket compatibility. Includes parts list and fan wiring instructions.
	[LGA1700-BCF Specifications and Installation Guide](#) Detailed specifications and step-by-step installation guide for the Thermalright LGA1700-BCF CPU cooler mounting bracket, ensuring proper installation on Intel LGA 1700 sockets.
	[Thermalright TR-Frost Commander 140 CPU Cooler Installation Guide](#) Detailed installation guide for the Thermalright TR-Frost Commander 140 CPU cooler, covering accessories, mounting for AMD AM4, Intel LGA115X, LGA20XX, and LGA1700 sockets, and fan wiring.
	[Thermalright Silver Soul 135 Series CPU Cooler Installation Guide](#) Comprehensive installation guide for the Thermalright Silver Soul 135 Series CPU Cooler, covering parts identification and step-by-step mounting instructions for AMD AM4 and various Intel LGA sockets (115X, 1200, 20XX, 1700). Includes fan wiring details.
	[Thermalright Assassin Spirit 120 EVO CPU Cooler Installation Guide and Specifications](#) Comprehensive guide for installing the Thermalright Assassin Spirit 120 EVO CPU Cooler. Features compatibility with Intel LGA1700/115x and AMD AM4/AM5 sockets, ARGB lighting, and detailed component descriptions.
	[Thermalright Peerless Assassin 140 CPU Cooler Installation Guide](#) Comprehensive installation guide for the Thermalright Peerless Assassin 140 CPU cooler, detailing steps for AMD AM4/AM5 and Intel LGA 115X, 1200, 1700, 1851, 2011, and 2066 sockets, along with fan wiring instructions.