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› Cooler Master ARGB LED Small Controller MFX-ACBN-NNUNN-R1 Instruction Manual

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Model: MFX-ACBN-NNUNN-R1

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Cooler Master ARGB LED Small Controller (Model: MFX-ACBN-NNUNN-R1). This compact controller is designed to manage Addressable RGB (ARGB) lighting for PC components, particularly useful for systems without an ARGB-compatible motherboard.

WHAT'S IN THE BOX

The Cooler Master ARGB LED Small Controller package includes the following components:

- Cooler Master ARGB LED Small Controller
- SATA Power Cable
- Thermal Detection Cable
- 1-to-3 ARGB Cable
- Motherboard Sync Cable
- Y Cable

SETUP AND INSTALLATION

Follow these steps to properly install and connect your ARGB LED Small Controller:

1. **Connect SATA Power:** Connect the provided SATA power cable to the controller and to an available SATA power connector from your power supply unit (PSU). This supplies power to the controller and connected ARGB devices.
2. **Connect ARGB Devices:** Use the 1-to-3 ARGB cable to connect your 3-Pin ARGB compatible devices (e.g., fans, LED strips) to the controller. Ensure correct pin orientation to avoid damage.
3. **Motherboard Sync (Optional):** If your motherboard supports 3-Pin ARGB (e.g., ASUS Aura Sync, Gigabyte RGB Fusion, MSI Mystic Light, ASRock Polychrome), you can connect the motherboard sync cable from the controller to your motherboard's ARGB header. This allows software control of lighting.

4. **Thermal Detection (Optional):** Connect the thermal detection cable to the controller and place the sensor in a location where you want to monitor temperature. This enables the thermal detection lighting mode.
5. **Mounting:** The controller features built-in magnets for easy attachment to any metallic surface inside your PC case. Ensure it is placed in a secure location that does not obstruct airflow or other components.



Image: Angled view of the Cooler Master ARGB LED Small Controller, highlighting its compact design and various connection ports.

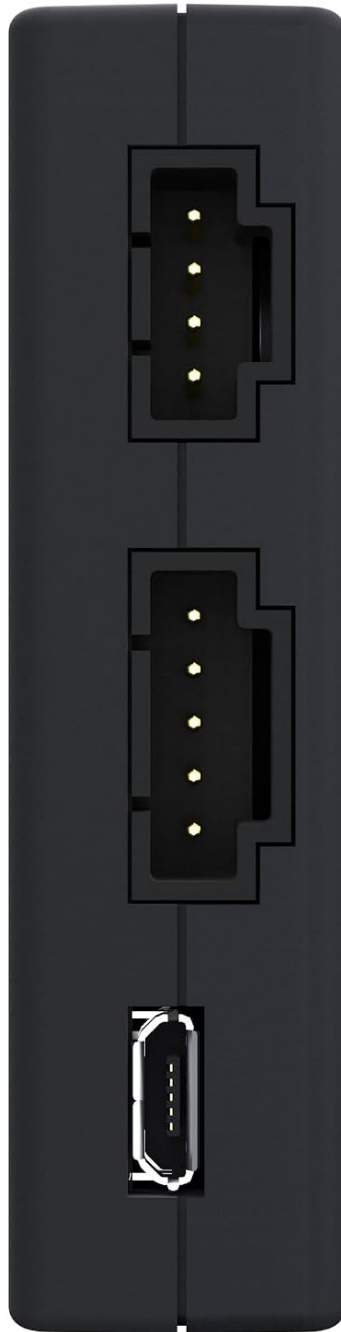


Image: Side view of the controller, illustrating the ARGB output ports and the micro-USB input for motherboard connection.

Video: Demonstrates the connection of a 5V ARGB device to a 3-pin connector and the basic button functions of a similar fan controller.

Video: An installation tutorial for a fan hub controller, showing how to connect cables and mount the hub within a PC case.

OPERATING INSTRUCTIONS

The Cooler Master ARGB LED Small Controller offers intuitive control over your lighting effects:

- **Mode Button:** Press this button to cycle through 6 pre-set lighting modes, including various dynamic effects and static colors.
- **Color Button:** In static color modes, press this button to change between 7 different single color options.
- **Speed Button:** Adjust the speed of dynamic lighting effects by pressing this button.
- **Brightness Button:** Control the brightness level of the ARGB lighting.
- **Thermal Detection Mode:** When the thermal detection cable is connected, the controller can display real-time

temperature through color lighting effects, providing a visual indicator of your system's thermal status.



Image: Top view of the controller, clearly showing the four control buttons for mode, color, speed, and brightness adjustments.

Video: Demonstrates the use of SignalRGB software with a controller, showing how to configure lighting models and adjust layouts for various ARGB components.

MAINTENANCE

To ensure the longevity and optimal performance of your Cooler Master ARGB LED Small Controller, consider the following maintenance tips:

- **Cleaning:** Periodically clean the controller and its connections with a soft, dry cloth to remove dust and debris. Avoid using liquid cleaners or abrasive materials.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent strain on connectors and accidental disconnections.
- **Environmental Conditions:** Operate the controller within recommended temperature and humidity ranges for

electronic devices. Avoid extreme conditions.

TROUBLESHOOTING

If you encounter issues with your ARGB LED Small Controller, try the following solutions:

- **No Power/Lights:**
 - Verify that the SATA power cable is securely connected to both the controller and the PSU.
 - Ensure your PSU is powered on and functioning correctly.
- **Lights Not Responding:**
 - Check all 3-Pin ARGB connections between the controller and your devices for proper seating and orientation.
 - If using motherboard sync, ensure the motherboard sync cable is correctly connected and your motherboard's ARGB software is configured.
 - Test different lighting modes and colors using the controller's buttons to rule out software conflicts.
- **Inconsistent Lighting:**
 - Ensure that all connected ARGB devices are compatible with 3-Pin 5V ARGB standards.
 - Check for any loose connections or damaged cables.
- **Thermal Detection Not Working:**
 - Confirm the thermal detection cable is properly connected to the controller.
 - Ensure the thermal sensor is placed in a suitable location for accurate temperature readings.

SPECIFICATIONS

Feature	Detail
Brand	Cooler Master
Model Name	MFX-ACBN-NNUNN-R1
Connector Type	SATA (Power)
Cable Type	SATA
Compatible Devices	Personal Computer, Server (with 3-Pin ARGB devices)
Special Features	ARGB Lighting, Thermal Detection, Compact Design
Recommended Uses	LED Lighting Control
Color	ARGB
Number of Pins	3 (for ARGB)
Item Weight	3.53 ounces (100 Grams)
Product Dimensions	2.34 x 0.93 x 0.59 inches
Maximum Voltage	5 Volts

Manufacturer	Cooler Master Europe B.V.
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WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Cooler Master ARGB LED Small Controller, please refer to the official Cooler Master website or contact their customer support directly. Keep your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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