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LGIDTECH E3-RF

LGIDTECH E3-RF Miboxer 3-in-1 LED Strip Light Controller User Manual

Model: E3-RF | Brand: LGIDTECH

Product Overview

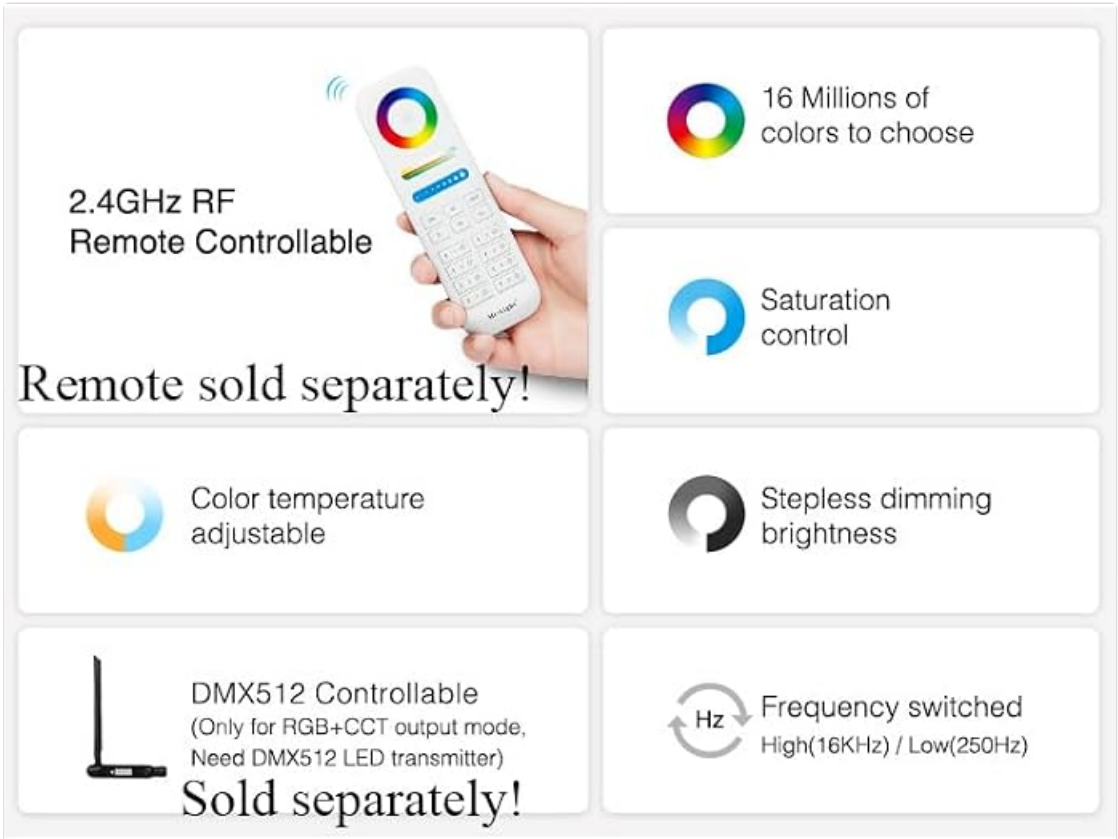
The LGIDTECH E3-RF Miboxer 3-in-1 LED Strip Light Controller is designed for versatile control of various LED strip light types, including RGB, RGBW, and RGB+CCT. This controller features tool-free wiring for easy installation and supports control via a smartphone application and voice commands when paired with a compatible gateway (sold separately). It operates on a DC 12-24V input and provides a maximum total output of 12A, making it suitable for a wide range of LED lighting setups.



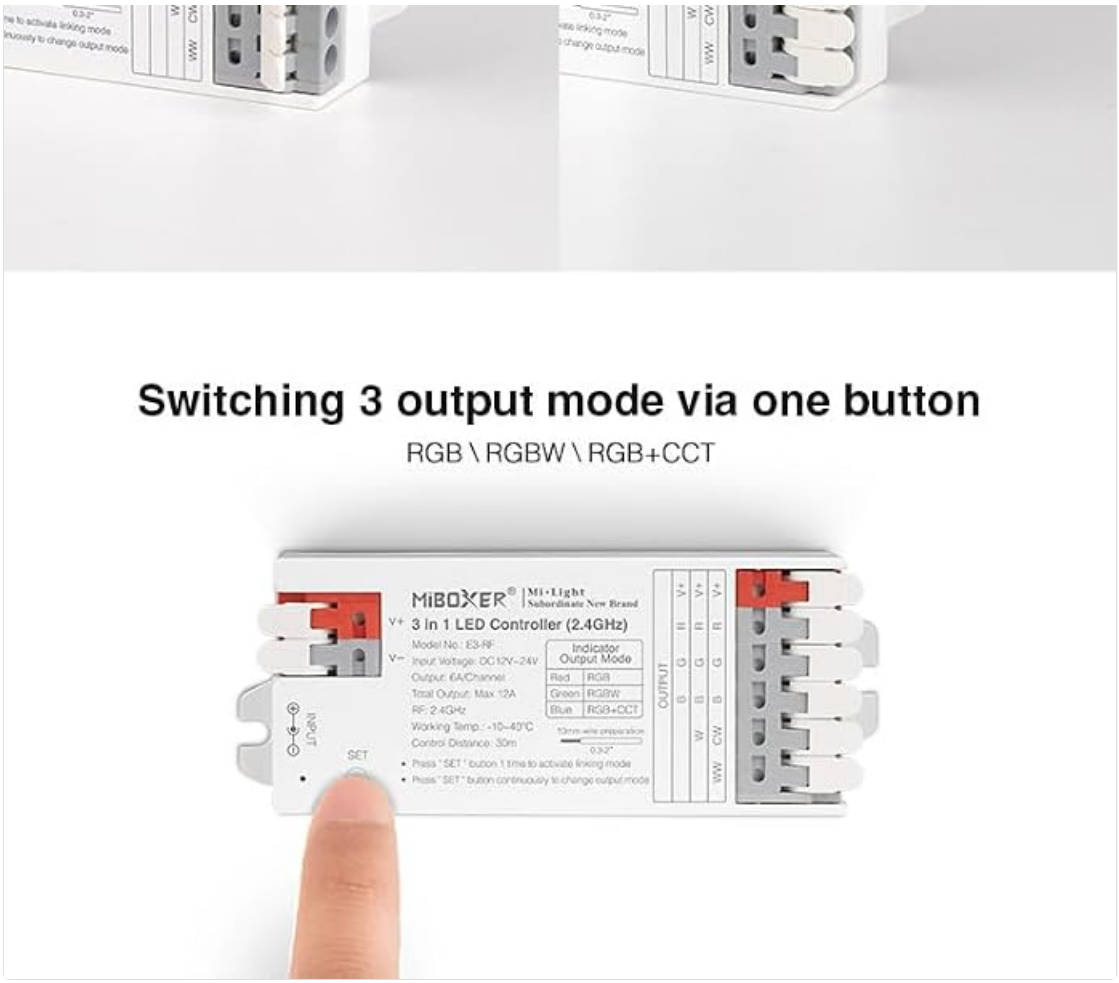
This image shows the compact white LGIDTECH E3-RF controller, highlighting its input and output terminals, and the 'SET' button. Key specifications like model number, input voltage, output, and control distance are visible on the device's label.

Key Features

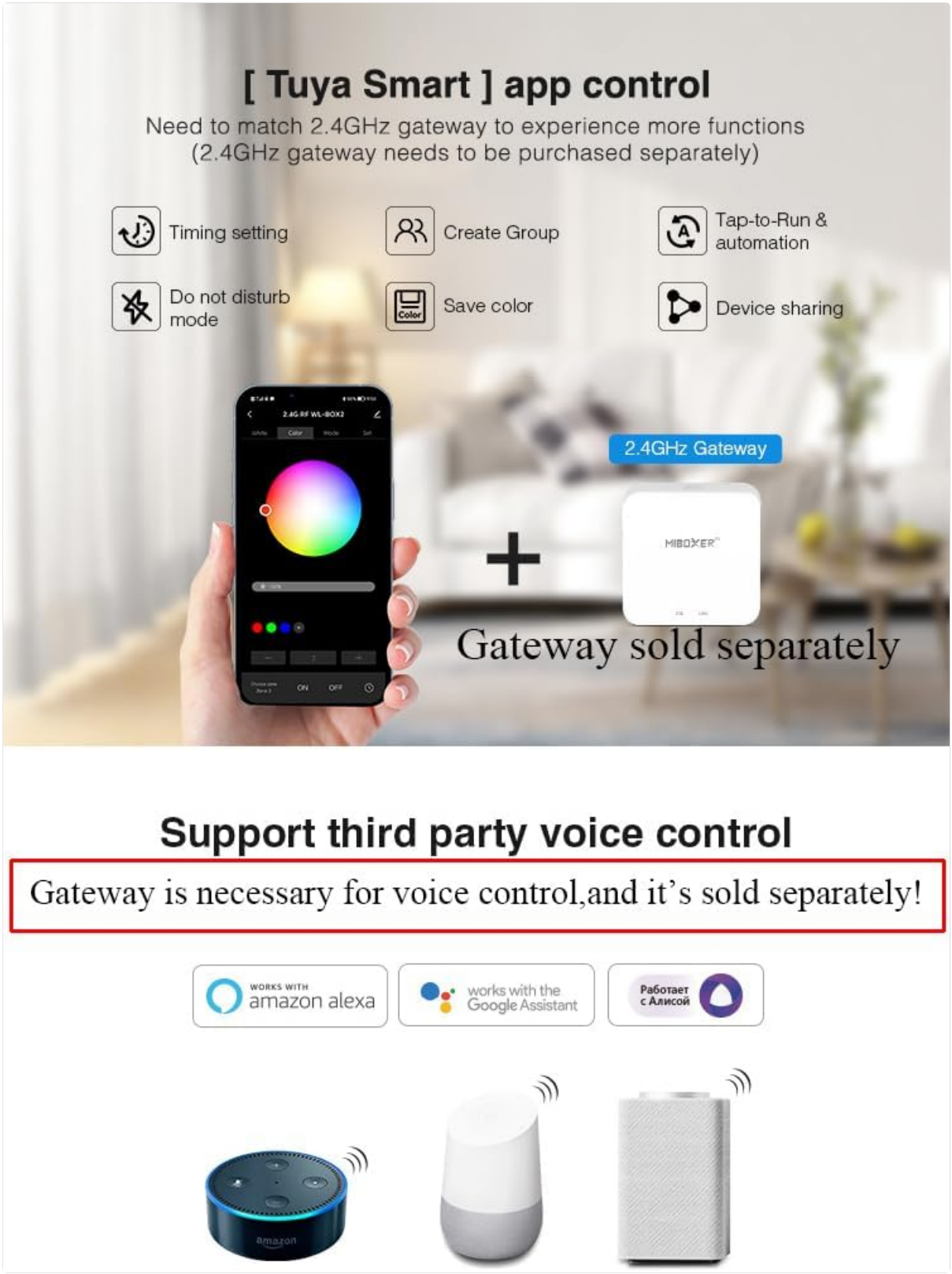
- **Tool-free Instant Wiring:** Simplifies installation by eliminating the need for a screwdriver, allowing for quick and easy wire connections.
- **3-in-1 Compatibility:** Supports three different types of LED strip lights: RGB (4 wires), RGBW (5 wires), and RGB+CCT (6 wires).
- **SET Button for Output Mode Switching:** Easily switch between the three output modes (RGB, RGBW, RGB+CCT) by pressing the dedicated SET button.
- **High Load Capacity:** Provides a maximum output current of 12A, supporting up to 144 Watts with DC 12V LED strip lights or 288 Watts with DC 24V LED strip lights.
- **Smartphone Control via Gateway:** Enables control through a smartphone application when connected to a WL-Box2 gateway (sold separately).
- **Voice Control Compatibility:** Compatible with Amazon Alexa and Google Home for voice control, requiring the WL-Box2 gateway (sold separately).







This diagram highlights features such as 2.4GHz RF remote controllability, 16 million colors, saturation control, adjustable color temperature, stepless dimming brightness, and frequency switching (16KHz/250Hz).



This image shows the easy, tool-free wiring mechanism of the controller and illustrates how the 'SET' button is used to switch between RGB, RGBW, and RGB+CCT output modes.

Setup Guide

Wiring Instructions

The E3-RF controller features tool-free wiring terminals for quick and secure connections. Simply press down on the orange tabs to open the terminal, insert the stripped wire, and release the tab to secure the connection. Ensure correct polarity (V+ and V-) for input power and match the output wires (R, G, B, W, CW, WW) to your LED strip light type (RGB, RGBW, or RGB+CCT).

Set up output mode

Set up correct output mode based on the feature of lights
Setting method: Press "SET" button continuously to switch output mode (attention: it will log out without operation within 3 seconds)

Output mode sheet (confirm output mode based on color of indicator)

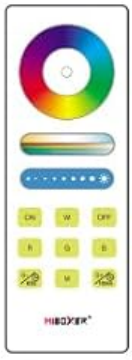
Indicator color	Red Light	Green Light	Blue Light
Output	RGB	RGBW	RGB+CCT

Compatible with these 2.4G RF remote controls (Purchased separately)


FUT100


FUT089S


FUT089
FUT089-B

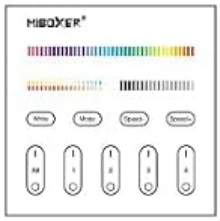

FUT088

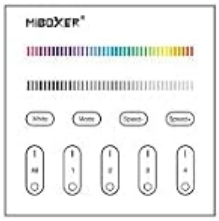

FUT092
FUT092-B


FUT096
FUT096-B

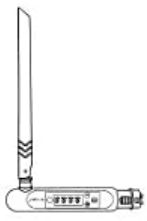

B8


B0 / B0-B


B4 / B4-B / T4


B3 / B3-B / T3


S2-B / S2-W
S2-G


FUTD01

All is sold separately!

This image provides a close-up of the controller's input and output terminals, indicating the LED light interface, power interfaces (wiring port / DC5.5*2.1), and the 'SET' button. It also highlights the classic PC material construction.

Output Mode Configuration

The E3-RF controller supports three output modes: RGB, RGBW, and RGB+CCT. You can switch between these modes using the 'SET' button located on the controller. Press the 'SET' button continuously to cycle through the modes. The indicator light on the controller will change color to confirm the active output mode. If no operation is performed within 3 seconds after pressing the button, the controller will log out of the setting operation.

Output Mode Sheet

Indicator Color	Output
Red Light	RGB
Green Light	RGBW
Blue Light	RGB+CCT

2.4G RF Remote control instruction (Remote Excluded)

1). Linking Code Instructions



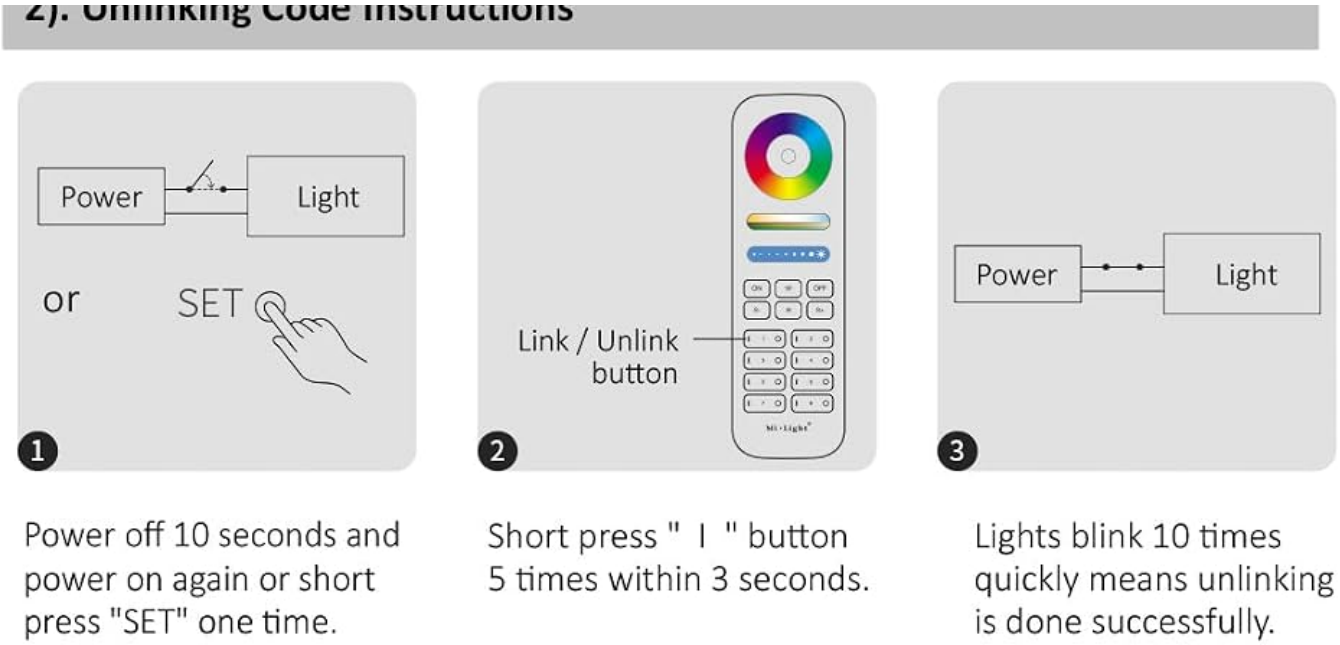
Power off 10 seconds and power on again or short press "SET" one time.

Short press " I " button 3 times within 3 seconds.

Lights blink 3 times slowly means linking is done successfully.

Linking failed if light is not blinking slowly, Please follow above steps again.
(Note: Light that have linked can't link again)

2). Unlinking Code Instructions



This image displays a table correlating indicator light colors (Red, Green, Blue) with their respective output modes (RGB, RGBW, RGB+CCT). Below the table, various compatible 2.4G RF remote controls (FUT100, FUT089S, FUT089, FUT088, FUT092, FUT096, B8, B0/B0-B, B4/B4-B/T4, B3/B3-B/T3, S2-B/S2-W, S2-G, FUTD01) are shown, all sold separately.

Operating Instructions

Remote Control Linking Instructions

To link the E3-RF controller with a compatible 2.4G RF remote control (sold separately), follow these steps:

1. Ensure the controller is powered off.
2. Power on the controller.
3. Within 3 seconds of powering on, short press the 'I' (Link/Unlink) button on your remote control 3 times.
4. The connected LED strip lights will blink 3 times slowly, indicating successful linking.

Note: If linking fails (lights do not blink slowly), please repeat the steps. A light that has already been linked cannot be linked again.

Remote Control Unlinking Instructions

To unlink the E3-RF controller from a previously linked 2.4G RF remote control (sold separately), follow these steps:

1. Ensure the controller is powered off.
2. Power on the controller.
3. Within 3 seconds of powering on, short press the 'I' (Link/Unlink) button on your remote control 5 times.
4. The connected LED strip lights will blink 10 times quickly, indicating successful unlinking.

Note: If unlinking fails (lights do not blink quickly), please repeat the steps. A light that has not been linked cannot be

unlinked.

Smartphone App and Voice Control

The E3-RF controller can be controlled via a smartphone application (e.g., Tuya Smart app) and voice commands through platforms like Amazon Alexa and Google Home. **Please note that direct control is not possible.** A WL-Box2 Gateway is required to enable these functionalities. The gateway acts as a bridge between your controller and your smart home system and is sold separately.

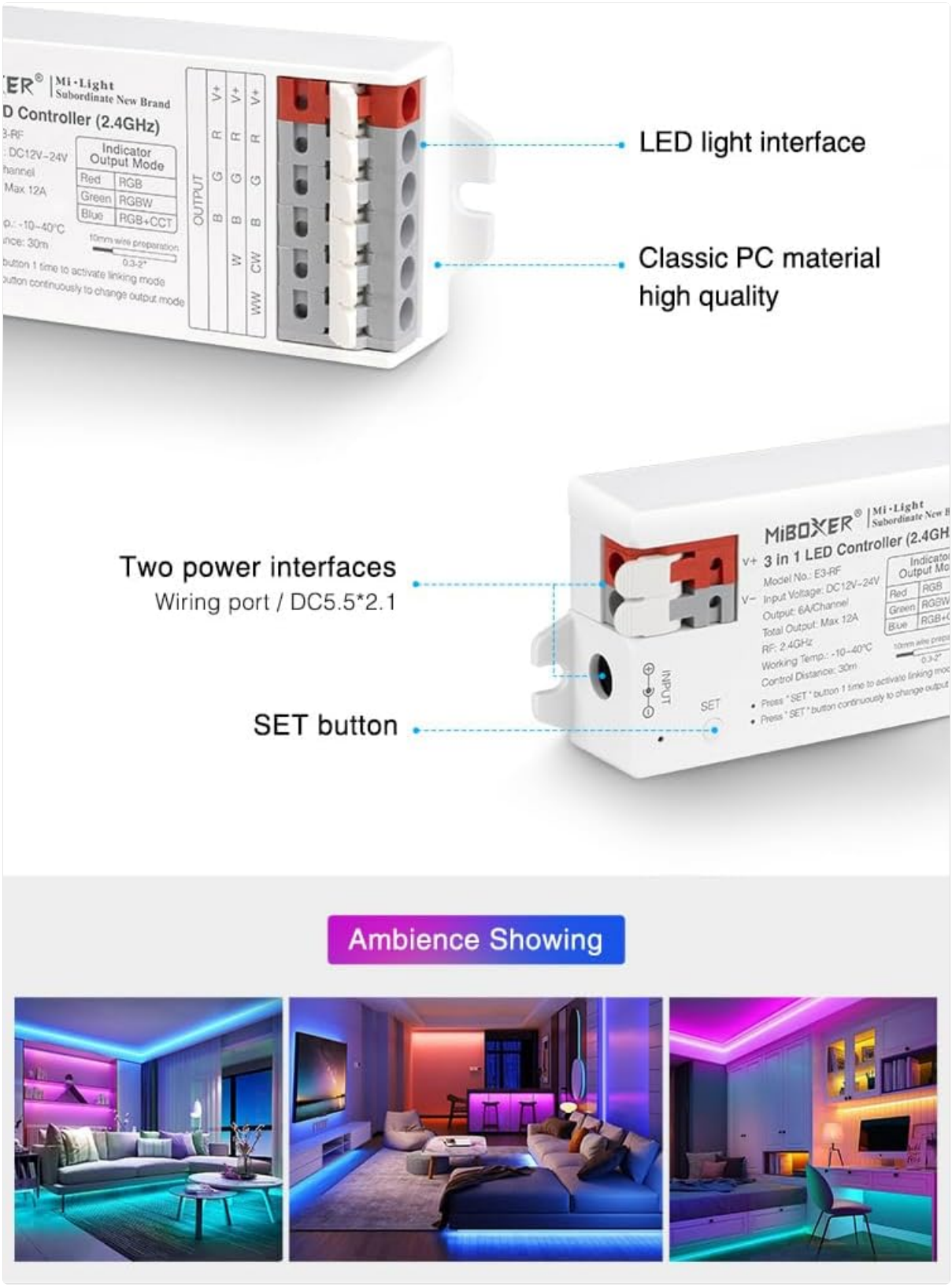


This image shows the Tuya Smart app interface for controlling the LED strip lights and emphasizes the necessity of the 2.4GHz gateway (WL-Box2), which is sold separately. It also highlights compatibility with third-party voice control systems like Amazon Alexa and Google Home, reiterating that the gateway is essential for these functions.

Signal Transmitting and Modes Synchronization

The E3-RF controller features signal transmitting capabilities, allowing one LED controller to transmit signals from the

remote control to another LED controller within a 30-meter range, provided there is another controller within that distance. This enables an extended control range. Additionally, different LED controllers can work synchronously even if they are started at different times. When controlled by the same remote, they can maintain the same dynamic mode and synchronization within a 30-meter distance.



This image illustrates the signal transmitting capability, where one LED controller can relay signals to another within 30 meters. It also depicts modes synchronization, allowing multiple controllers to be started at different times but controlled by the same remote, maintaining synchronized dynamic modes within a 30-meter range. The image also shows DMX512 controllability with a separate DMX512 LED transmitter (FUTD01).

MAINTENANCE

To ensure the longevity and optimal performance of your LGIDTECH E3-RF controller, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the surface of the controller. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing or internal components.
- **Environment:** Operate the controller within its specified working temperature range of -10~40°C (14~104°F). Avoid exposing the device to extreme temperatures, high humidity, or direct sunlight.
- **Ventilation:** Ensure the controller has adequate ventilation and is not covered, to prevent overheating.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.

Troubleshooting

If you encounter issues with your LGIDTECH E3-RF controller, refer to the following common problems and their solutions:

- **Light not responding to remote control:**
  - Ensure the remote control is within the 30-meter control distance.
  - Verify that the controller is properly linked to the remote control. If not, follow the linking instructions.
  - Check for any obstacles that might be blocking the signal between the remote and the controller.
- **Smartphone App or Voice Control not working:**
  - Confirm that the WL-Box2 Gateway is properly connected to power and your home network.
  - Ensure the gateway is correctly paired with the E3-RF controller and configured within the smartphone app.
  - Check your internet connection and the status of the app/voice assistant service.
- **LED strip lights flickering or dim:**
  - Verify that the input voltage (DC12-24V) matches the requirements of your LED strip lights and power supply.
  - Check the total load of your LED strip lights. Ensure it does not exceed the controller's maximum output of 12A.
  - Inspect all wiring connections for looseness or corrosion.
- **Incorrect color output or mode:**
  - Press the 'SET' button on the controller to cycle through the output modes (RGB, RGBW, RGB+CCT) and ensure the correct mode is selected based on your LED strip light type. Observe the indicator light color.
  - Verify that the output wires from the controller are correctly connected to the corresponding inputs on your LED strip light.

Technical Specifications

Specification	Detail
Product Name	3 in 1 LED Controller (2.4GHz)
Model Number	E3-RF
Brand	LGIDTECH
Input Voltage	DC12~24V

Specification	Detail
Output	6A/Channel
Total Output	Max 12A
Max Load (12V)	144 Watts
Max Load (24V)	288 Watts
Control Distance	30 meters (98 feet)
Working Temperature	-10~40°C (14~104°F)
Output Connection	Common anode
Control Method	App, Voice (via Gateway), Remote Control (sold separately)
Item Weight	1.76 ounces
Package Dimensions	4.06 x 1.65 x 0.94 inches
Manufacturer	Miboxer
Type of Bulb	LED

Warranty Information

Specific warranty details for the LGIDTECH E3-RF Miboxer 3-in-1 LED Strip Light Controller are not provided in this manual. For information regarding product warranty, including terms, conditions, and duration, please refer to the product packaging, the seller's website, or contact LGIDTECH directly.

Customer Support

For technical assistance, troubleshooting, or any inquiries regarding your LGIDTECH E3-RF controller, please contact LGIDTECH customer service. You may find contact information on the product packaging or by visiting the official LGIDTECH store on Amazon: LGIDTECH Amazon Store.

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