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## MJJC GL-C-002P

# MJJC GL-C-002P GLEDOPTO Zigbee 3.0 Mini 5-in-1 RGBCCT LED Strip Controller User Manual

Model: GL-C-002P | Brand: MJJC

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MJJC GL-C-002P GLEDOPTO Zigbee 3.0 Mini 5-in-1 RGBCCT LED Strip Controller. This device is designed to control various types of LED strip lights, offering versatile lighting options through smart home integration.

## PRODUCT OVERVIEW

The GL-C-002P is an ultra-thin, compact LED controller utilizing Zigbee 3.0 protocol for smart home integration. It supports five different LED strip configurations: RGBCCT, RGBW, RGB, CCT, and Dimmer. Key features include:

- **Ultra-thin Design:** Compact dimensions (70x37x10mm) for discreet installation.
- **5-in-1 Compatibility:** Works with Single Color, CCT, RGB, RGBW, and RGBCCT LED strip lights.
- **Zigbee 3.0 Protocol:** Ensures low power consumption, high stability, strong anti-interference ability, and enhanced security. Supports connection of over 50 devices.
- **Smart Speaker Integration:** Compatible with popular smart speakers for voice control of brightness and other functions.
- **Zigbee Gateway Compatibility:** Works with various Zigbee gateways (e.g., SmartThings, Tuya) for app control on Android/iOS devices.
- **2.4G RF Remote Control Support:** Can be controlled directly with a 2.4G RF remote or wall switch without a Zigbee hub.

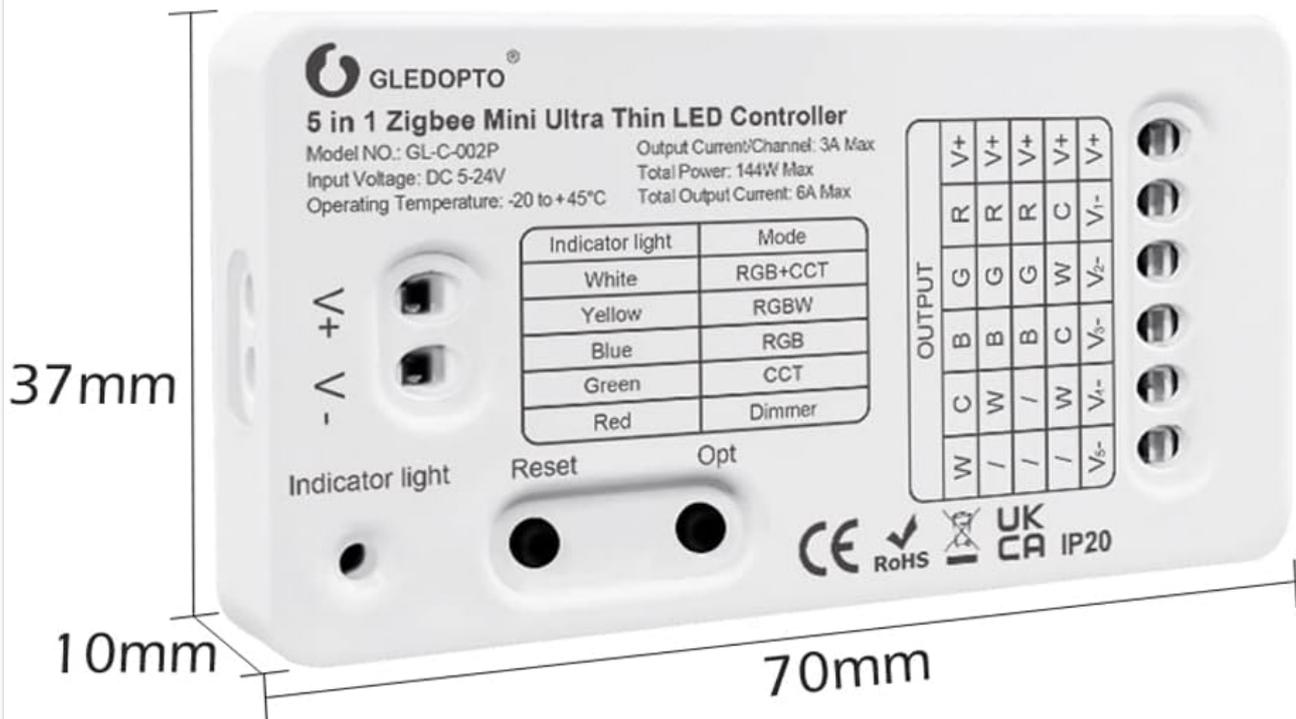


Image: The MJJC GL-C-002P Zigbee 3.0 Mini 5-in-1 RGB CCT LED Strip Controller, showcasing its compact design and connection terminals.

## TECHNICAL SPECIFICATIONS

| Parameter              | Value  |
|------------------------|--|
| Product Name           | Zigbee Ultra Thin Mini 5 in 1 LED Controller |
| Model No.              | GL-C-002P                                    |
| Product Size           | 70 x 36 x 10 mm (2.76 x 1.46 x 0.39 inches)  |
| Input Voltage          | DC 5-24V                                     |
| Protection Rate        | IP20   |
| Total Power            | 144W Max                                     |
| Output Current/Channel | 3A Max                                       |
| Total Output Current   | 6A Max                                       |
| Operating Temperature  | -20°C to +45°C                               |
| Material               | Plastic                                      |
| Indoor/Outdoor Usage   | Indoor                                       |

# Product Parameters



## Product Name: 5 in 1 Zigbee Mini Ultra Thin LED Controller

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Input Voltage:<br>DC 5-24V         | Model NO.:<br>GL-C-002P              |
| Output Current/Channel:<br>3 A Max | Total Output Current:<br>6 A Max     |
| Total Power:<br>144 W Max          | Operating Temperature:<br>-20°C~45°C |
| Size:<br>70x37x10mm                | Protection Rate:<br>IP20             |
| N.W.:<br>23.5g                     | G.W.:<br>36.1g                       |

Image: Detailed product parameters including dimensions, input voltage, and output current.

## PACKAGE CONTENTS

- 1x MJJC GL-C-002P Zigbee Mini 5-in-1 LED Strip Controller

- 1x User Manual (this document)
- 1x 3cm Sticker
- 1x Wiring Tool

## SETUP AND INSTALLATION

Follow these steps to set up your LED strip controller:

### 1. Wiring the LED Strip

The controller supports various LED strip types. Ensure correct wiring based on your LED strip configuration (RGB CCT, RGBW, RGB, CCT, or Dimmer). The controller features a press-type design for wire connections.

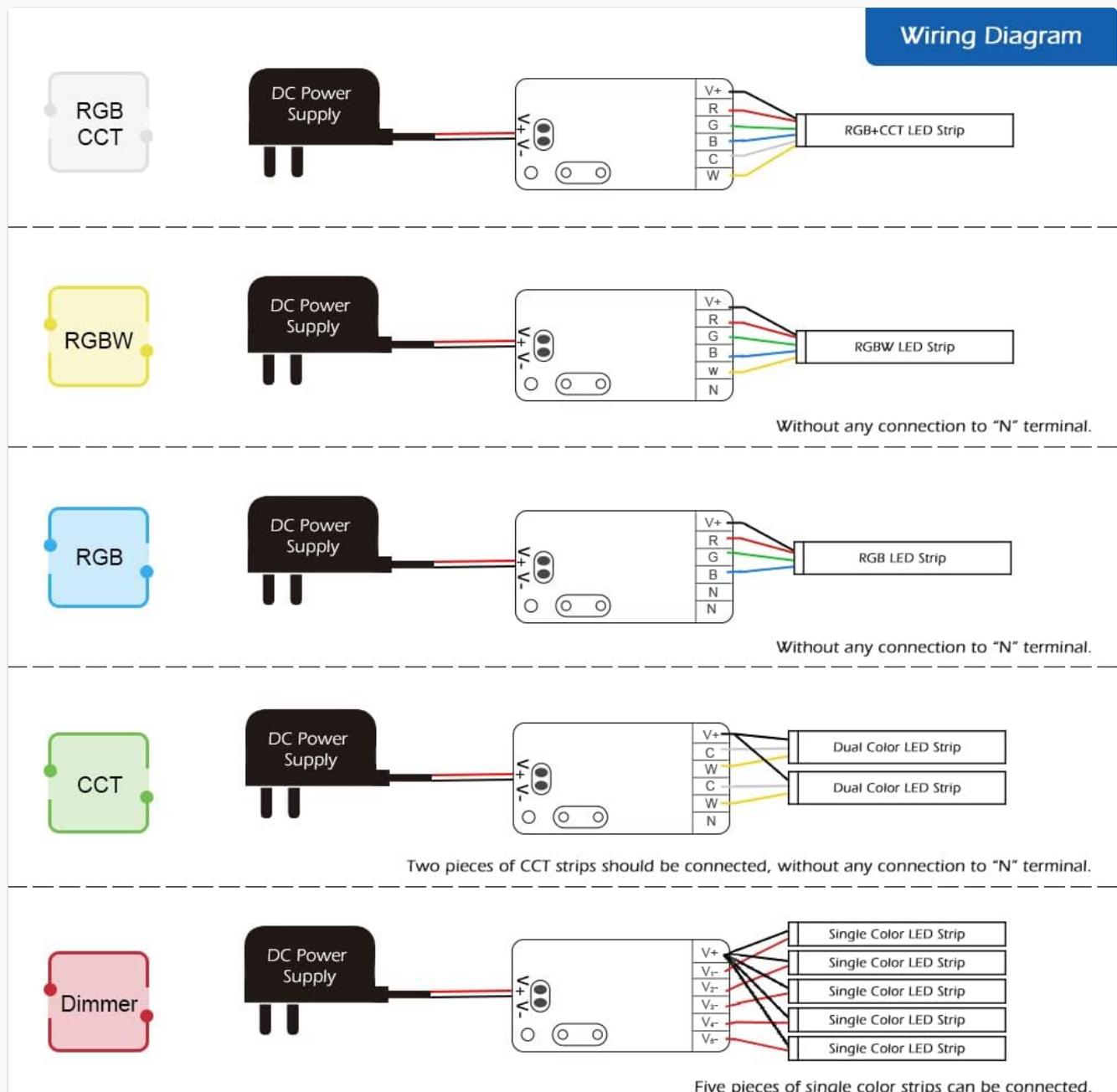


Image: Wiring diagrams illustrating connections for RGB CCT, RGBW, RGB, CCT, and Dimmer LED strips to the controller.

- **RGB CCT:** Connect R, G, B, CW, WW, and V+ terminals.
- **RGBW:** Connect R, G, B, W, and V+ terminals.

- **RGB:** Connect R, G, B, and V+ terminals.
- **CCT (Dual Color):** Connect C, W, and V+ terminals. Two CCT strips can be connected.
- **Dimmer (Single Color):** Connect V- and V+ terminals. Up to five single color strips can be connected.

**Note:** For RGBW, RGB, CCT, and Dimmer configurations, ensure no connection to the "N" terminal if present on your strip.

## 2. Powering the Light Source

Connect the LED strip, controller, and a compatible DC 5-24V power adapter. Plug the power adapter into an electrical outlet. The controller will automatically power up.

## 3. Setting Up the Zigbee Bridge (Gateway)

If using a Zigbee gateway (e.g., SmartThings, Tuya, Philips Hue), plug it into power and connect it to your Wi-Fi router using the provided network cable. Refer to your gateway's manual for initial setup.

## 4. Downloading the Gateway App

Download the corresponding app for your Zigbee gateway on your Android or iOS phone. Follow the app's instructions to start searching for new devices. This process may take some time. If the device is not found, try power cycling the controller (power off/on) or performing a reset.

## 5. Completing Setup and Control

Once the controller is detected and paired with your gateway, you can use the app to control the light color, color temperature, and brightness of your LED strips.

# Steps for usage

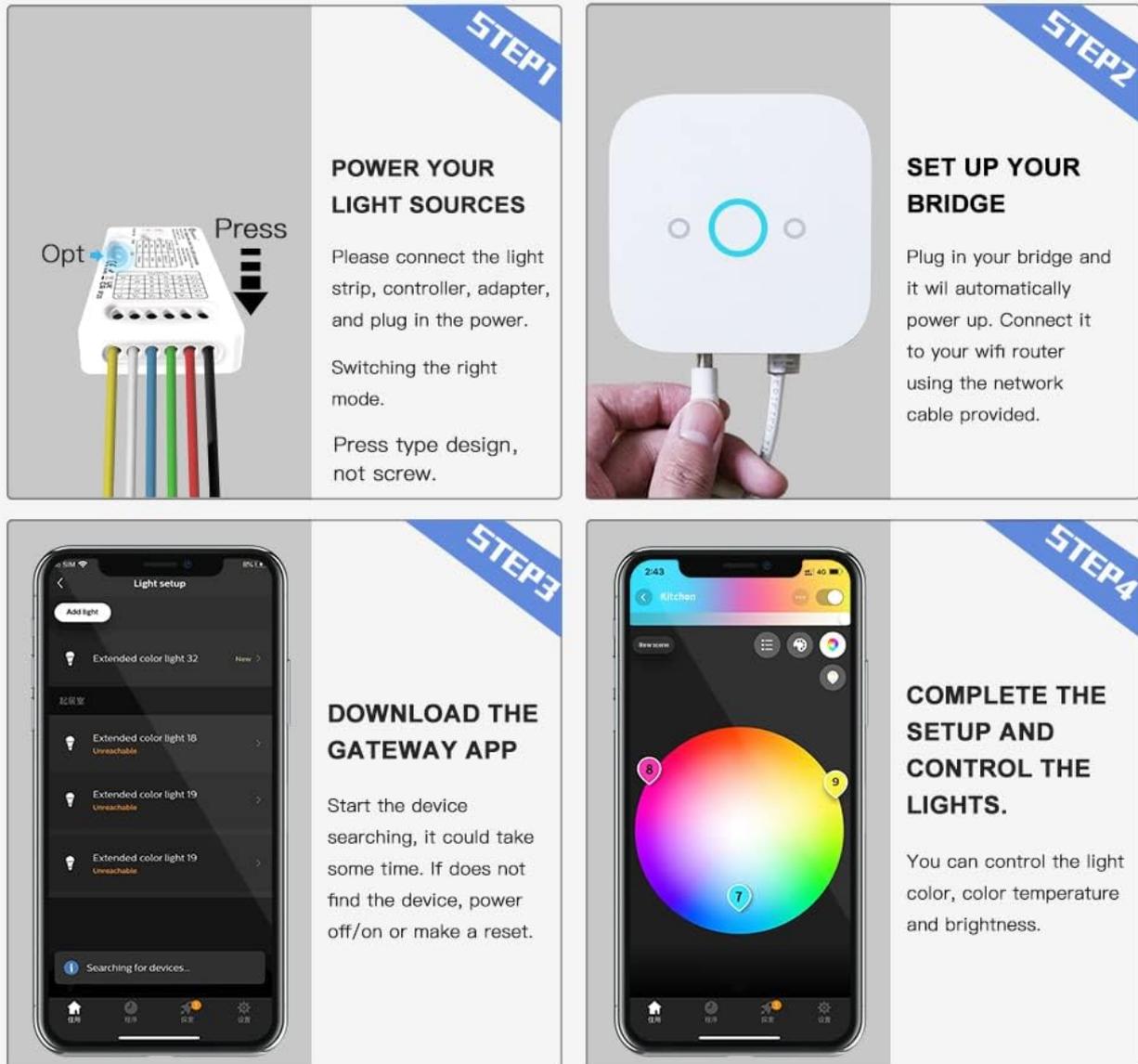


Image: Visual guide showing the four main steps for setup: powering the light source, setting up the bridge, downloading the gateway app, and controlling the lights.

## Pairing with a 2.4G RF Remote Control

To pair the controller with a 2.4G RF remote control:

1. Ensure the controller is powered on.
2. Immediately after powering on, press the "I" button on your 2.4G RF remote control.
3. The LED strip will flash to indicate successful pairing.

Your browser does not support the video tag.

Video: Demonstrates the setup and operation of the Mini Zigbee LED Strip Light Controller, including pairing and various control functions.

## OPERATING INSTRUCTIONS

### App Control

Through your Zigbee gateway's mobile application, you can:

- **Color Adjustment:** Select from 16 million colors to create desired ambiance.
- **Brightness Control:** Adjust brightness from 1% to 100%.
- **Color Temperature Adjustment:** Fine-tune white light from warm to cool. Color lamp beads automatically turn off for more accurate white light adjustment.
- **Grouping:** Create rooms or groups to control multiple light strips simultaneously or individually.
- **Scene Setting:** Configure custom lighting scenes to match different moods or activities.



Image: Example of a smartphone application interface used to control LED strip lights, showing color and brightness selection.

## Voice Control

The controller supports voice control via Amazon Alexa, Google Home, and HomeKit when connected through a compatible Zigbee hub. Use voice commands to turn lights on/off, adjust brightness, and change colors or color temperature.

# Works with Amazon echo plus

You can adjust on/off, brightness, through voice command, which can free your hands.



Image: Illustration of voice control functionality with Amazon Echo Plus, demonstrating commands like "Alexa, turn on the light" or "Alexa, set to warm white."

## Mode Switching

The controller has an "Opt" key for switching between different LED strip modes (RGCCT, RGBW, RGB, CCT, Dimmer). Short press the "Opt" key once to cycle through the modes. The indicator light on the controller will change color to reflect the current mode:

- **White:** RGCCT
- **Yellow:** RGBW
- **Blue:** RGB
- **Green:** CCT
- **Red:** Dimmer

# PRODUCT DETAILS

Details create quality



## PRESS TYPE DESIGN



Wiring is more convenient.

## FIREPROOF MATERIAL



High temperature resistance.



GLEDOPTO®

5 in 1 Zigbee Mini Ultra Thin LED Controller

Model NO.: GL-C-002P

Input Voltage: DC 5-24V

Operating Temperature: -20 to +45°C

Output Current/Channel: 3A max.

Total Power: 144W Max

Total Output Current: 6A Max

| Indicator light | Mode    |
|-----------------|---------|
| White           | RGB+CCT |
| Yellow          | RGBW    |
| Blue            | RGB     |
| Green           | CCT     |
| Red             | Dimmer  |

Indicator light

Reset

Opt

| OUTPUT |    |
|--------|----|
| V+     | V+ |
| R      | R  |
| G      | G  |
| B      | B  |
| W      | W  |
| V-     | V- |
| V+     | V+ |
| R      | R  |
| G      | G  |
| B      | B  |
| W      | W  |
| V-     | V- |
| V+     | V+ |
| R      | R  |
| G      | G  |
| B      | B  |
| W      | W  |
| V-     | V- |

CE

RoHS

UK

CA

IP20



## LED INDICATOR



Different color indicators correspond to different functions.

Image: Close-up of the controller highlighting the "Opt" button and the indicator light, with a table explaining indicator colors for different modes.

### Frequency Settings for Noise Reduction

To reduce potential power supply noise, the controller allows adjustment of the output frequency. Press and hold the "Reset" button for five seconds to cycle through frequency options (600Hz, 800Hz, 1000Hz, 2000Hz, 4000Hz, 8000Hz). The LED strip will flash a specific number of times to indicate the selected frequency:

- 1 flash: 600Hz
- 2 flashes: 800Hz
- 3 flashes: 1000Hz
- 4 flashes: 2000Hz
- 5 flashes: 4000Hz
- 6 flashes: 8000Hz

# Frequency Settings

Match more power supplies to reduce noise.



(One-touch frequency switching)

**1000Hz → 2000Hz → 4000Hz → 8000Hz → 600Hz → 800Hz → 1000Hz**

|                | 600Hz | 800Hz | 1000Hz | 2000Hz | 4000Hz | 8000Hz |
|----------------|-------|-------|--------|--------|--------|--------|
| Flashing times | 1     | 2     | 3      | 4      | 5      | 6      |

Image: Diagram explaining the frequency setting options and their corresponding flashing times for noise reduction.

## Power-On Status Memory

The device remembers its last on/off status. To set the default power-on status (on or off), press and hold the "Opt" button for five seconds. The light will flash to indicate successful setting. When power is restored, the device will revert to the saved status.

## MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the controller. Do not use liquid cleaners or aerosols.
- **Environment:** Ensure the controller is installed in a dry, indoor environment within the specified operating temperature range (-20°C to +45°C). Avoid exposure to direct sunlight, high humidity, or extreme temperatures.
- **Connections:** Periodically check all wiring connections to ensure they are secure.

## TROUBLESHOOTING

### Issue: LED strip does not light up.

- Check if the power adapter is correctly connected and receiving power.
- Verify that the LED strip is correctly wired to the controller's output terminals.
- Ensure the input voltage (DC 5-24V) matches the requirements of both the controller and the LED strip.
- Confirm the LED strip itself is functional.

### Issue: Controller not found by Zigbee gateway/app.

- Ensure the Zigbee gateway is powered on and connected to your network.
- Place the controller within range of the Zigbee gateway.
- Try power cycling the controller (unplug and replug power).
- Perform a factory reset on the controller (long press the "Reset" button for 5 seconds until the indicator light flashes).
- Ensure your gateway app is up to date.

### Issue: Power supply noise (e.g., coil whine).

- Adjust the output frequency of the controller by pressing and holding the "Reset" button for five seconds to cycle through frequency options (600Hz, 800Hz, 1000Hz, 2000Hz, 4000Hz, 8000Hz). Select the frequency that minimizes noise.
- Ensure your power supply is of good quality and compatible with the controller's requirements.

### Issue: Wire connections are loose or difficult.

- The controller uses a press-type terminal design. Ensure wires are fully inserted and secured. Use the provided wiring tool if necessary.
- For very thin wires, consider tinning the ends slightly with solder to provide more rigidity, but be careful not to make them too thick for the terminals.

## WARRANTY AND SUPPORT

For warranty information or technical support, please contact MJJC customer service through your retailer or the official MJJC website. Keep your purchase receipt for warranty claims.

