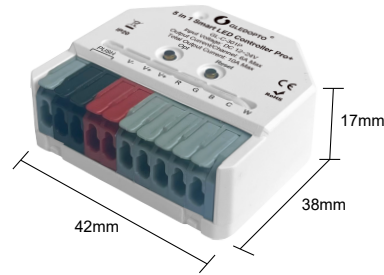




## ZigBee 5in1 LED Smart Controller Pro+ User Instruction

**GL-C-301P**

### Product Parameter



Product Model: GL-C-301P  
 Input Voltage: DC 12-24V  
 Output Current/Channel: 6A Max  
 Total Output Current: 10A Max  
 Communication Protocol: ZigBee 3.0 + 2.4G RF  
 Suggested Wire Type: 0.5-1.5mm<sup>2</sup> (24-16AWG)  
 Stripping Length: 8-9mm  
 Material: Fireproof PC  
 IP Rate: IP20  
 Operating Temperature: -20~45°C  
 Size: 42x38x17mm

### Function of Button

#### OPT:

Short Press: Switch current device function (switching device function will automatically clear Zigbee and RF connections)

Long Press for 5 seconds: Enable/disable memory function (memory function is off by default, it determines whether to remember the power status before power off)

#### Reset:

Short Press: Switch the frequency.  
 Long Press for 5 seconds: Reset the controller. (After reset, it default back to RGB CCT).

#### Push:

Short press: Power On/Off.  
 Long press: Adjust brightness (Assuming: Long press increases brightness, release and long press again decreases brightness).

### Frequency Settings

In order to be applicable to different power supplies, the frequency of device is selectable as 600Hz, 800Hz, 1000Hz, 2000Hz, 4000Hz, 8000Hz with default frequency 1000Hz. **Short press twice "Set" key**, the frequency will switch into the next one. The indicator will flash in Pink color and resume to previous color after "off" for 2 seconds. The rule of indicator flashing times for different frequency please refer to table

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

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

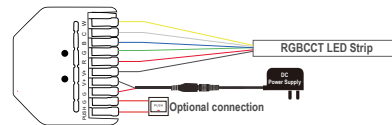
### Indicator Light Status

White	RGB CCT
Yellow	RGBW
Blue	RGB
Green	CCT
Red	Dimmer
Purple	Frequency switching
Light blue	Enable/disable memory function

### Wiring Diagram

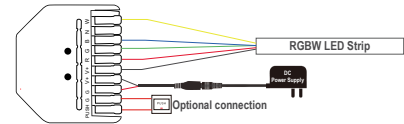
#### RGB CCT:

Under RGB CCT function, the RGB CCT strip can be connected to the device.



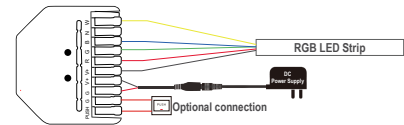
#### RGBW:

Under RGBW function, the RGBW strip can be connected, without any connection to "N" terminal.



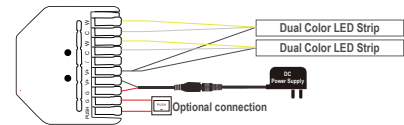
#### RGB:

Under RGB function, the RGB strip can be connected, without any connection to "N" terminal.



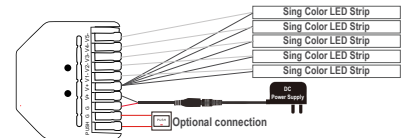
#### CCT:

Under CCT function, two pieces of CCT strips can be connected, without any connection to "N" terminal, but the light strips will be controlled simultaneously.



#### DIMMER:

Under dimmer function, five pieces of single color strips can be connected, but the light strips will be controlled simultaneously.



## Connecting with the Gateway

### Joining Network:

1. Connect the controller to power correctly.
2. Use the gateway's app to start device search, wait for a certain period (refer to the instructions of each gateway). If the gateway does not find the controller, try powering the controller again or resetting it.
3. After the gateway discovers the controller, add the controller to the designated room or group.
4. Once joined to the network, you can start using the controller.

### Leaving Network:

In the app, delete the controller that needs to leave the network. The controller will flash 3 times, indicating successful disconnection.

Note: Disconnection of the controller will clear the 2.4G RF connection and enter the reset state.

The product works with many ZigBee 3.0 Gateways like Philips Hue, Amazon Echo Plus or Smart Things.



## Remote Control Pairing/Unpairing

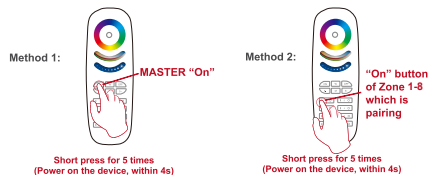
### Pairing:

- 1 Turn off the controller, then power on after 10 seconds.
- 2 Within 4 seconds of powering on, press the "On" button of any group on the RF remote control (see the user manual of each remote control for details).
- 3 When the light strip connected to the controller flashes, it indicates connect with the remote control successfully.



### Unpairing:

- 1 Turn off the controller, then power on after 10 seconds.
- 2 Within 4 seconds of powering on, press the "Master On" button on the RF remote control or press the "On" button of the controller's group 5 times.
- 3 When the light strip connected to the controller flashes, it indicates a disconnection from the remote control.



### 2.4GHz Remote Control Scene Memory Function:

- 1 Click on the button (S1,S2,S3,S4) of the remote control to enter the scene memory function.
- 2 Long press to save the scene; Short press to activate the scene.



## Compatible with 2.4G RF Remote Control



## Mode Description

1. Static Warm white
2. Static Day white color
3. Static Cold white
4. Static Red color
5. Static Green color
6. Static Blue color
7. 16 Million Color Gradient
8. RGB Color Jumping
9. Color Breathing (Brightness gradually changes from 100% to 0%, then back to 100% to 0% in sequence. Adjusting color or color temperature can switch colors in this mode, press the "M" key to exit this mode).

## Compatible with 2.4G RF Remote Control

This controller can adjust the saturation using the remote control buttons.



## Reset Method

1. **Button reset:** Press and hold the RESET button for more than 5 seconds, the light strip flashes 3 times, indicating the reset is complete.
2. **Power On/Off reset:**
  1. Power on the light strip controller.
  2. Within 2 seconds, disconnect the power.
  3. Wait for at least 5 seconds to ensure complete power-off.
  4. Repeat the above steps 5 times.
  5. The light strip will flash 3 times, indicating that the reset is complete.



Note: The controller will return to RGBCT function and clear Zigbee and RF connections after resetting.



### Attention

1. Before turning on the power, please ensure that all wiring is correct and secure. Do not operate while the power is on.
2. Use the product under the rated voltage, Overvoltage or undervoltage may damage controller.
3. Do not disassemble the product, as it may cause fire and electric shock.
4. Do not use the product in direct sunlight, damp, high-temperature, or other harsh environments.
5. Do not use the product in metal shielded areas or near strong magnetic fields, as it will severely affect the wireless signal transmission of the product.

## DISCLAIMERS

- \* Due to our continuous adoption of new technologies, the product specifications may change without prior notice.
- \* This manual is for reference and guidance purposes only. It does not guarantee complete consistency with the actual product. Please refer to the actual product for practical applications.
- \* The components and accessories described in this manual do not represent the standard configuration of the product. The specific configuration is subject to the package contents.
- \* All text, tables, and images in this manual are protected by relevant national laws and may not be used without our company's permission.
- \* This product is compatible with third-party products (such as apps, hubs, etc.), as stated in the gateway compatibility chart. However, our company takes no responsibility for any issues that may arise from changes made by third-party products, resulting in incompatibility or the partial loss of functionality.



LED-Trading Tobias Ebert

Schoeneicher Str. 42, Schoeneiche b. Berlin, Germany, 15566

0049 30 641 689 17 info@led-trading.de

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