
TECHNICAL DOCUMENT

GLEDOPTO 35mm Din Rail Mount 5 in 1 Zigbee Smart Controller GL-C-011P

Product reference: GL-SD-001

Brand: GLEDOPTO

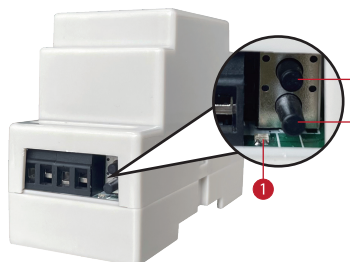
Original Brand document

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Source file: GL-C-011P.pdf

SPECIFICATION

Product Name	DIN Rail 5 in 1 Smart LED Controller
Model NO.	GL-C-011P
Size	91x36x59mm
Input Voltage	DC12-24-36-48-54V
Protection Rate	IP20
Output Current/Channel	5A MAX
Total Output Current	15A MAX
Operating Temperature	-20°C~45°C
Common Anode	
Constant Voltage	



① LED indicator

Different color indicators correspond to different functions.

② Reset

Short press once to switch frequency; Short press twice to enter find and binding; Short press three times to enter touchlink; Short press four times to clear the zigbee network.

③ OPT

Short press once to switch the function; Press and hold for more than 5 seconds to set the power-on status.

FUNCTIONS OF DIFFERENT INDICATOR COLORS SHOWN AS FOLLOWING TABLE: (RGCCT>RGBW>RGB>CCT>DIMMER>RGCCT)

	RGCCT	RGBW	RGB	CCT	Dimmer
Indicator Color	White	Yellow	Blue	Green	Red

I . NETWORK PARING:

1. Pairing with Zigbee Hub

Add the device to a zigbee network via coordinator or hub

① Please ensure the device wasn't be paired.

Otherwise, please "RESET" the device according to the part II "RESET".

② After STEP 1, there will be a pairing process about 90s.

Once times out, you need to repeat the ①.

③ Open the zigbee App (hue or Amazon Alexa), add the device.

④ If the pairing done successfully after the above steps, the device will blink 3 times.



③

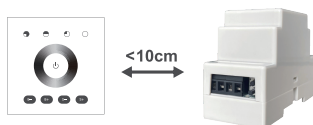


④

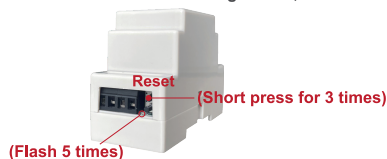
(Flash 3 times)

2. TouchLink to a Zigbee Remote Control / Touch Panel

① Please make sure the distance between the device and remote control/ touch panel less than 10cm;



② Method 1: Please short press key "Reset" 3 times or power on/off the device 3 times to enter into "Touchlink Commissioning" mode, the device will blink 5 times.



(Flash 5 times)

Method 2: Re-power on the device, Touchlink Commissioning will start after 15 seconds if it's not added to a ZigBee network, 165 seconds timeout. Or start immediately if it's already added to a network, 180 seconds timeout. Once timeout, repeat the operation.

③ Set the remote / touch panel to enter "Touchlink Commissioning".

Please refer to the manual of the corresponding remote / touch panel.

④ There shall be indication on the remote or touch panel for successful pairing, the device will blink 2 times. Now the device shall be controllable via the remote / touch panel.



(Flash 2 times)

*Note:

- ① If the device & remote control in different zigbee network, each remote can link with one device.
- ② If the device & remote control in the same zigbee network, max 30 remotes can link with one device.
- ③ For the Philips Hue /Amazon Echo Plus, the device & remote control should in the same network before TouchLink.

3. Find and Bind Mode

*Note: Make sure that the device & remote are in the same network.

① Short press "Reset" button(or re-power on the device)for 2 times. The device will blink twice, and start "Find and Bind" mode to find the "Target Node".



(Flash 2 times)



Any zone "On"

Short press once
(Power on the device, within 4s)

② Set the remote control / touch panel (target node) to enter the "Find and Bind" mode to search for "Bind Initiator".

Please refer to the manual of the corresponding remote / touch panel.

③ "Find and Bind" is completed, the remote / touch panel shall have indication.

Now the device shall be remote control / touch panel controllable.

4. Pairing with 2.4GHz RF Remote Control / Touch Panel

① The pairing will be timeout after 4 seconds when the device powered on.

② The pairing will be done successfully by pressing any zone "On" key of the 2.4G RF Remote or touch panel.

③ The indications from the device will blink 3 times.

II. RESET:

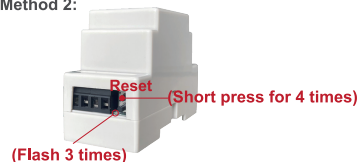
1. RESET the Zigbee Network

- Method 1: Delete the device on the APP, the device will **blink 3 times**.
- Method 2: Short press key "Reset" 4 times (Or re-power on the device 4 times) to unpair the network, the device will **blink 3 times**.

Method 1:



Method 2:



2. RESET the 2.4GHz RF Network

- Method 1: Short press the Master "On" key 5 times within 4 seconds after the device powered on, the device will **blink 3 times**.
- Method 2: Short press continuously 5 times the Zone "On" key the device being paired within 4 seconds after the device powered on, the device will **blink 3 times**.

Method 1:



Method 2:



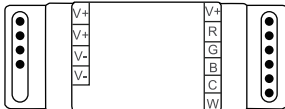
III. FACTORY RESET:

The Factory Reset will be done successfully by long pressing "Reset" key more than 5 seconds (or re-power on the device 5 times or more). All configuration parameters will be reset after the device is reset or removed from the network, including ZigBee and 2.4G RF Network. The indicator will flash firstly 3 times in the color of corresponding function selected, and turn into default White color (Default RGB CCT function) after flashing 4 times again.



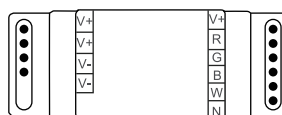
IV. WIRING DIAGRAM: 1. RGBCCT:

Under RGBCCT function, the RGBCCT strip can be connected to the device.



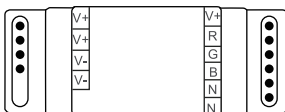
2. RGBW:

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



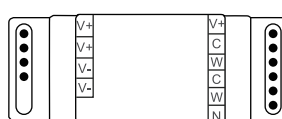
3. RGB:

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



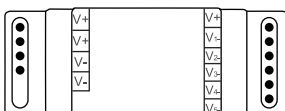
4. CCT:

Under CCT function, two pieces of CCT strips can be connected, without any connection to "N" terminal.



5. DIMMER:

Under dimmer function, five pieces of single color strips can be connected.



V. POWER-ON STATUS & FREQUENCY SETTINGS

1. Power-on Status Settings

Long press "opt" key for more than 5 seconds, the indicator will flash in light blue color and resume to previous color after "off" for 4 seconds to complete power-on status setting. The default power-on status is light on. The indicator **flashing 3 times** in light blue means light on under power-on status, **flashing 4 times** in light blue means light off under power-on status.

2. 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. Once short pressing "Reset" 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

VI. SATURATION CONTROL FUNCTION VIA 2.4G RF REMOTE CONTROL



Enter into & exit Saturation Control Mode	
How to make Saturation Control	



Enter into & exit Saturation Control Mode	
How to make Saturation Control	



Enter into & exit Saturation Control Mode	
How to make Saturation Control	