NAMRON ZigBee RGBW LED Controller Instruction Manual

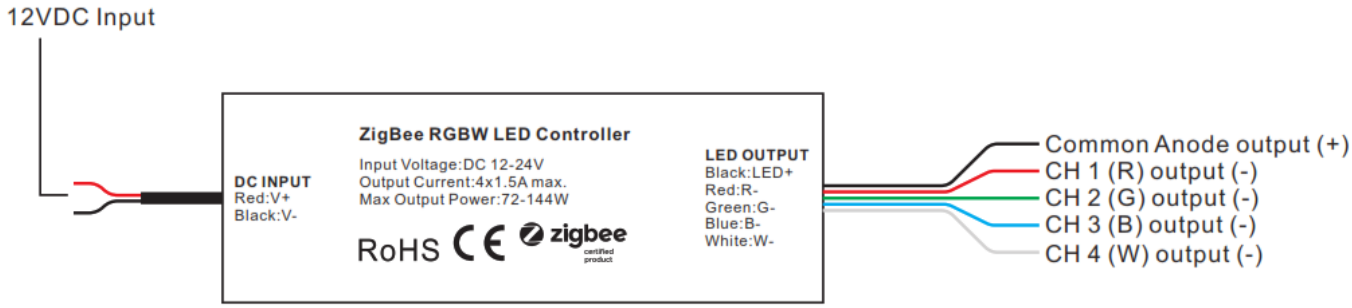
NAMRON DIY ZigBee RGBW LED Controller

Important: Read All Instructions Prior to Installation

Contents

1 Function introduction
2 Safety & Warnings
3 Operation
4 TouchLink to a Zigbee Remote
5 Removed from a Zigbee Network through Coordinator or Hub Interface
6 Factory Reset Manually
7 Factory Reset through a Zigbee Remote (Touch Reset)
8 Find and Bind Mode
9 Learning to a Zigbee Green Power Remote
10 Delete Learning to a Zigbee Green Power Remote
11 Setup a Zigbee Network & Add Other Devices to the Network (No Coordinator Required)
12 Wiring Diagram
13 Documents / Resources
14 Related Posts

Function introduction



Note 1) W channel can be turned on through Gateway's color temperature control interface which will mix RGB channels as 1 channel white and then make color tuning with the 4th channel white. Once turned on, the brightness of the white channel will be controlled together with RGB channels. 2) W channel can be controlled separately from RGB channels through RGBW zigbee remote or touch panel's W button, please refer to their manuals.

Product Data

No.	Input Voltage	Output Current	Output Power	Output Type	Dimension (LxWxH)
1	12124VDC	4CH, 1.5A/CH	72W@12V, 144W @24V	Constant voltage	84x20x14mm

- Mini size ZigBee RGBW LED light device based on latest ZigBee 3.0 protocol
- Enables to control ON/OFF, light intensity and RGB color of connected RGBW LED lights
- W channel can be controlled through Gateway's color temperature control interface
- W channel can be controlled separately from RGB channels through RGBW Zigbee remote or touch panel's W button
- ZigBee end device that supports Touchlink commissioning
- Supports self-forming ZigBee network without a coordinator
- Supports find and bind mode to bind a ZigBee remote
- Supports ZigBee green power and can bind max. 20 Zigbee green power remotes
- Compatible with universal ZigBee gateway products
- Waterproof grade: IP20

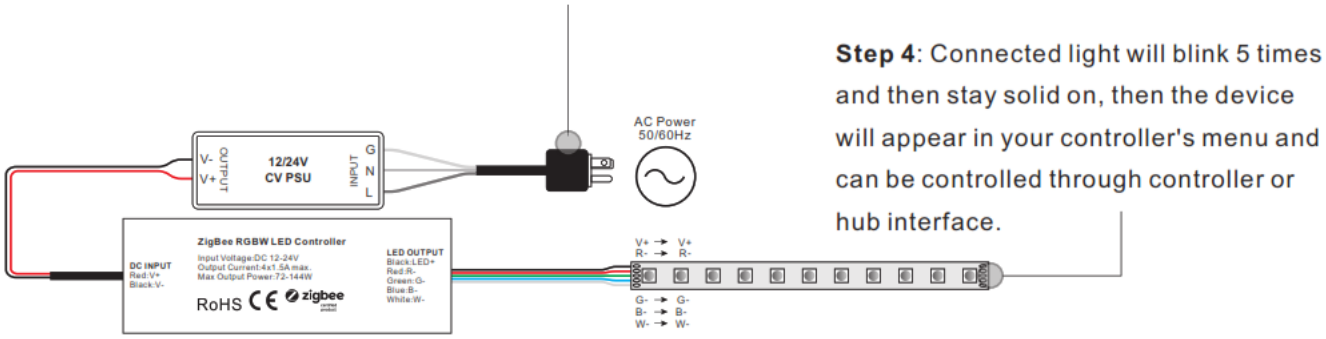
Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

Operation

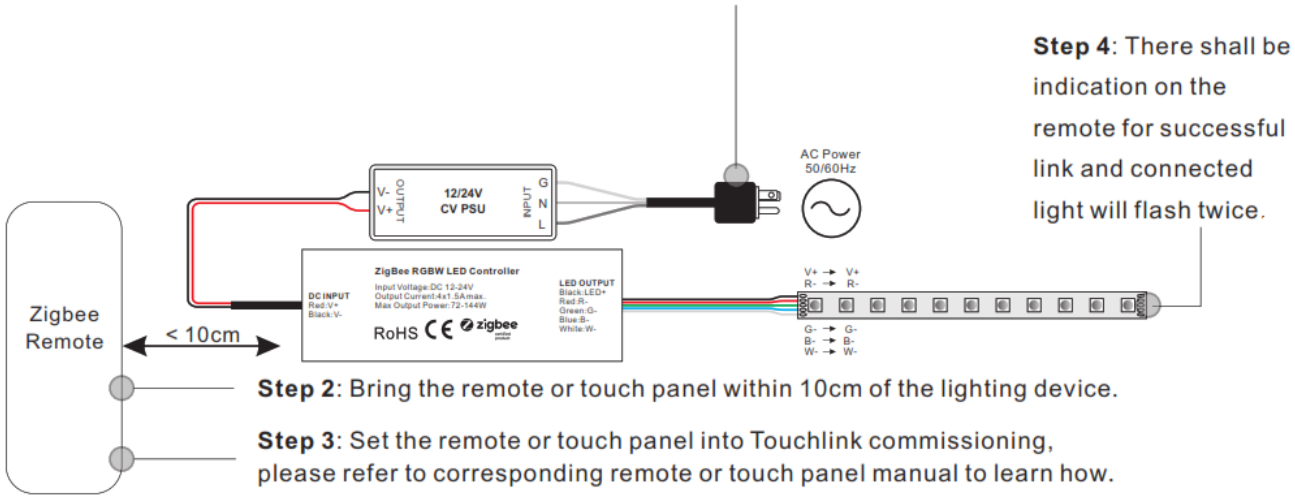
1. Do wiring according to the connection diagram correctly.
2. This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.
3. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)

Step 1: Remove the device from the previous Zigbee network if it has already been added to, otherwise pairing will fail. Please refer to the part “Factory Reset Manually”.
Step 2: From your ZigBee Controller or hub interface, choose to add a lighting device and enter Pairing mode as instructed by the controller.
Step 3: Re-power on the device to set it into network pairing mode (connected light flashes twice slowly), 15 minutes timeout, repeat the operation.



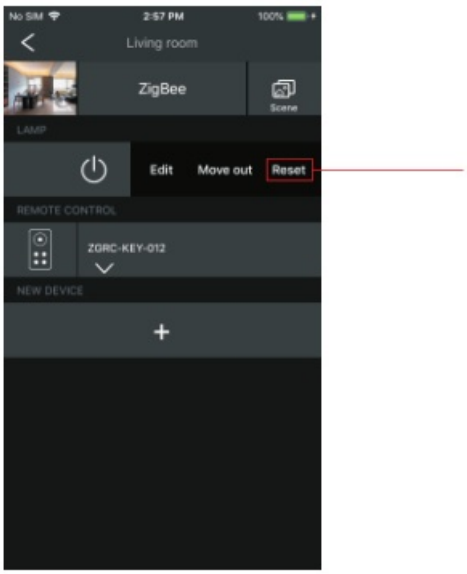
TouchLink to a Zigbee Remote

Step 1: Method 1: Re-power on the device 4 times to start Touchlink commissioning immediately, 180S timeout, repeat the operation.
Method 2: Re-power on the device, Touchlink commissioning will start after 15 if it’s not added to a minutes Zigbee network, 165S timeout. Or start immediately if it’s already added to a network, 180S timeout. Once timeout, repeat the operation.



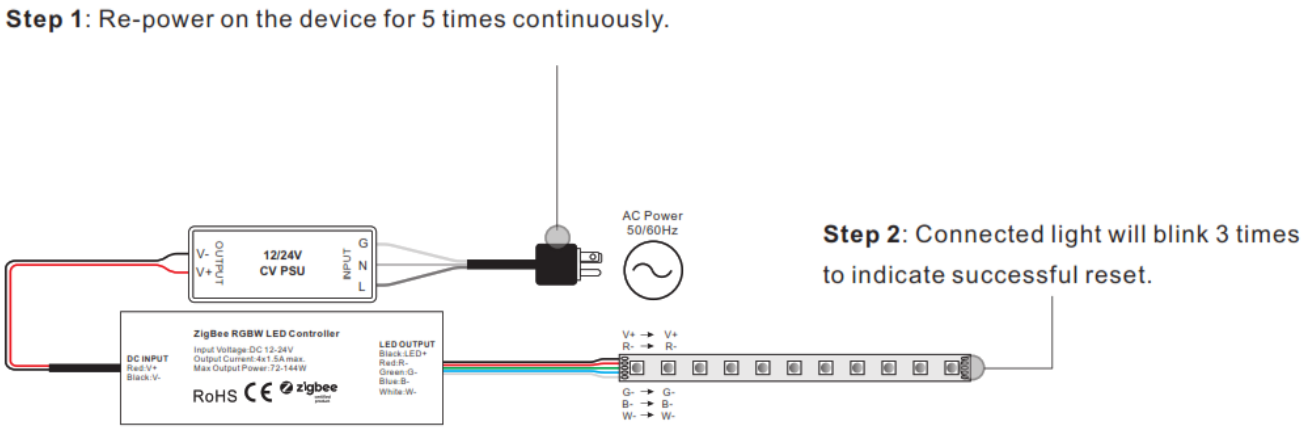
Note: 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.
2) TouchLink after both are added to a ZigBee network, each device can link with max. 30 remotes.
3) For Hue Bridge & Amazon Echo Plus, add remote and device to a network first then TouchLink.
4) After TouchLink, the device can be controlled by the linked remotes.

Removed from a Zigbee Network through Coordinator or Hub Interface



From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate a successful reset.

Factory Reset Manually

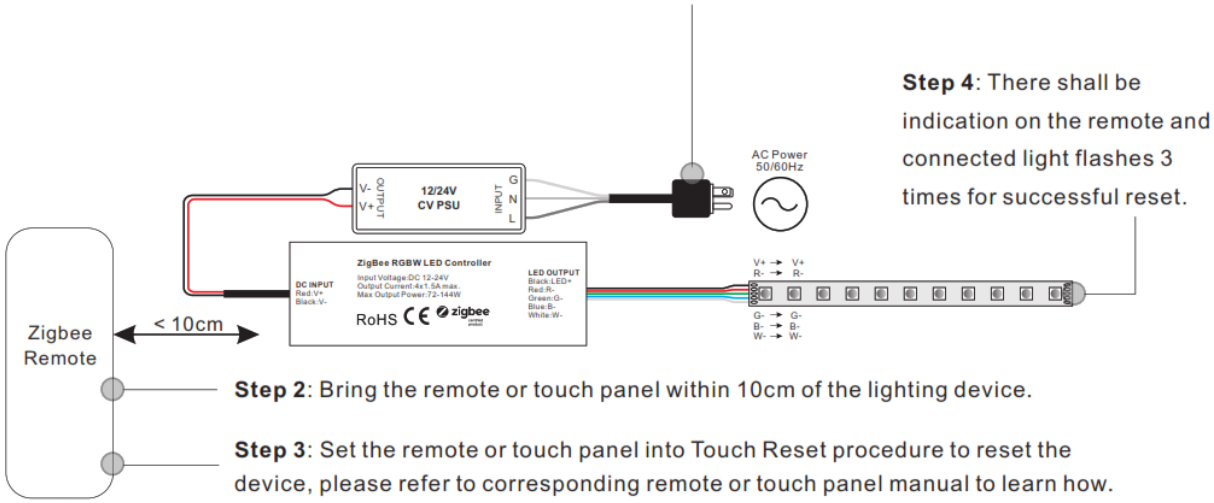


Note 1) If the device is already at the factory default setting, there is no indication when the factory reset again.
2) All configuration parameters will be reset after the device is reset or removed from the network.

Factory Reset through a Zigbee Remote (Touch Reset)

Note: Make sure the device is already added to a network, the remote added to the same one, or not added to any network.

Step 1: Re-power on the device to start TouchLink Commissioning, 180 seconds timeout, repeat the operation.

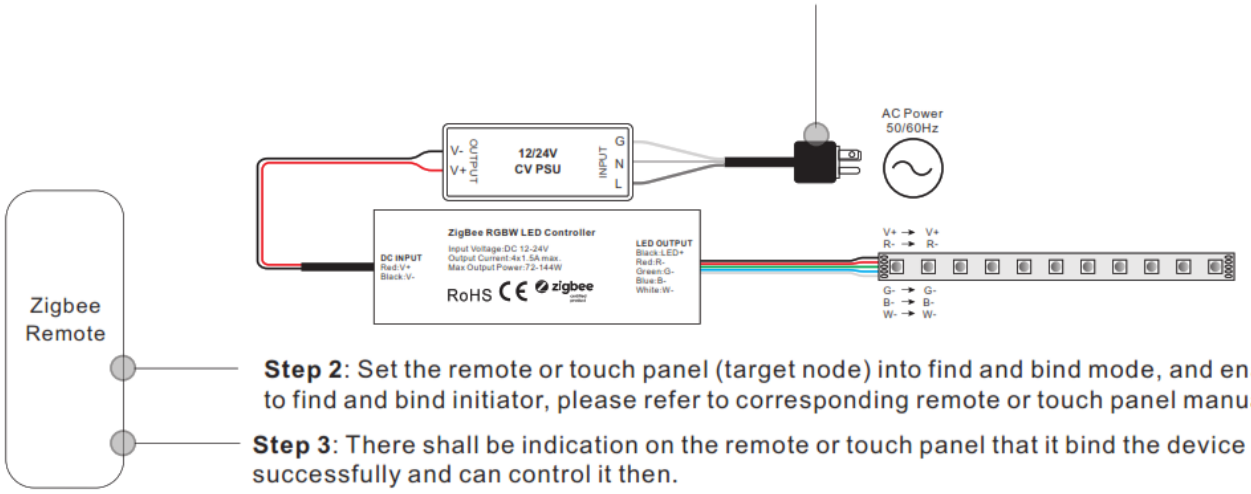


Step 2: Bring the remote or touch panel within 10cm of the lighting device.

Step 3: Set the remote or touch panel into Touch Reset procedure to reset the device, please refer to corresponding remote or touch panel manual to learn how.

Find and Bind Mode

Step 1: Re-power on the device (initiator node) 3 times to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat the operation.

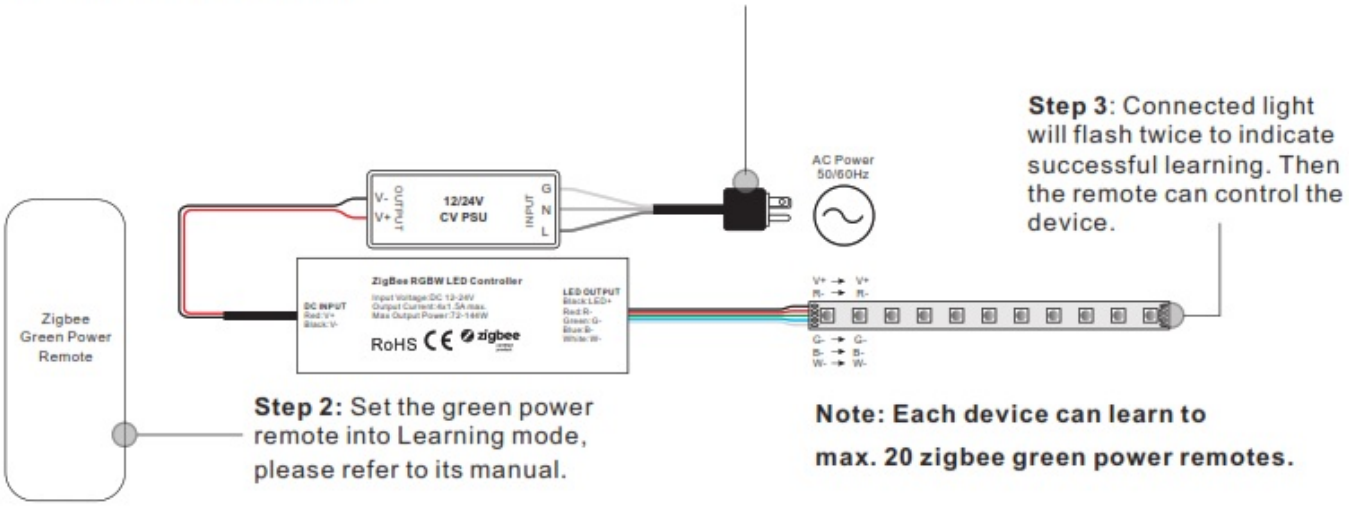


Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to corresponding remote or touch panel manual.

Step 3: There shall be indication on the remote or touch panel that it bind the device successfully and can control it then.

Learning to a Zigbee Green Power Remote

Step 1: Re-power on the device 4 times to start Learning mode (connected light flashes twice), 180 seconds timeout, repeat the operation.

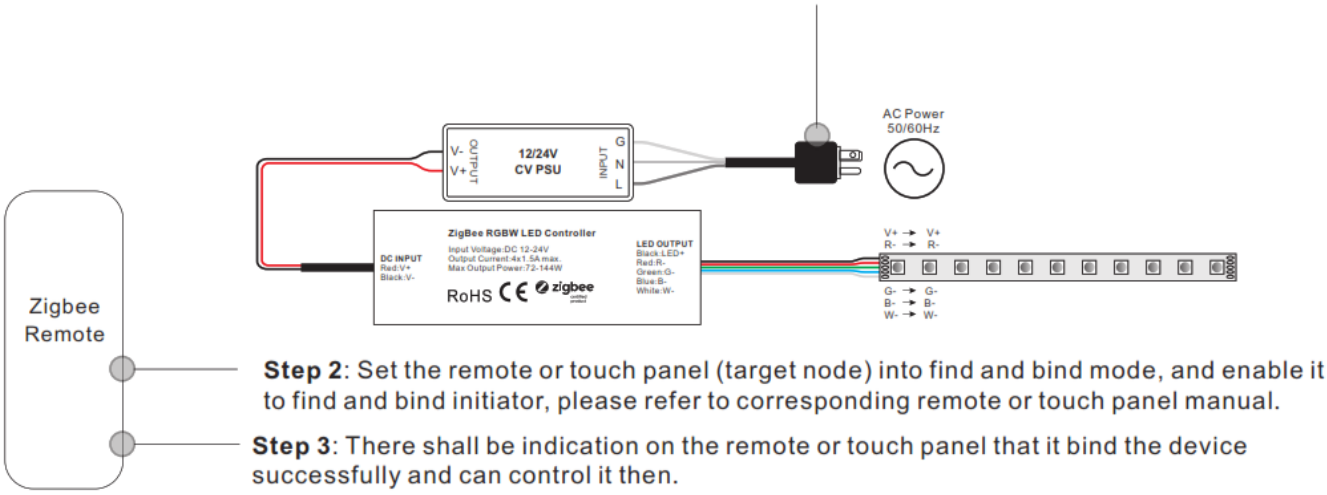


Step 2: Set the green power remote into Learning mode, please refer to its manual.

Note: Each device can learn to max. 20 zigbee green power remotes.

Delete Learning to a Zigbee Green Power Remote

Step 1: Re-power on the device (initiator node) 3 times to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat the operation.

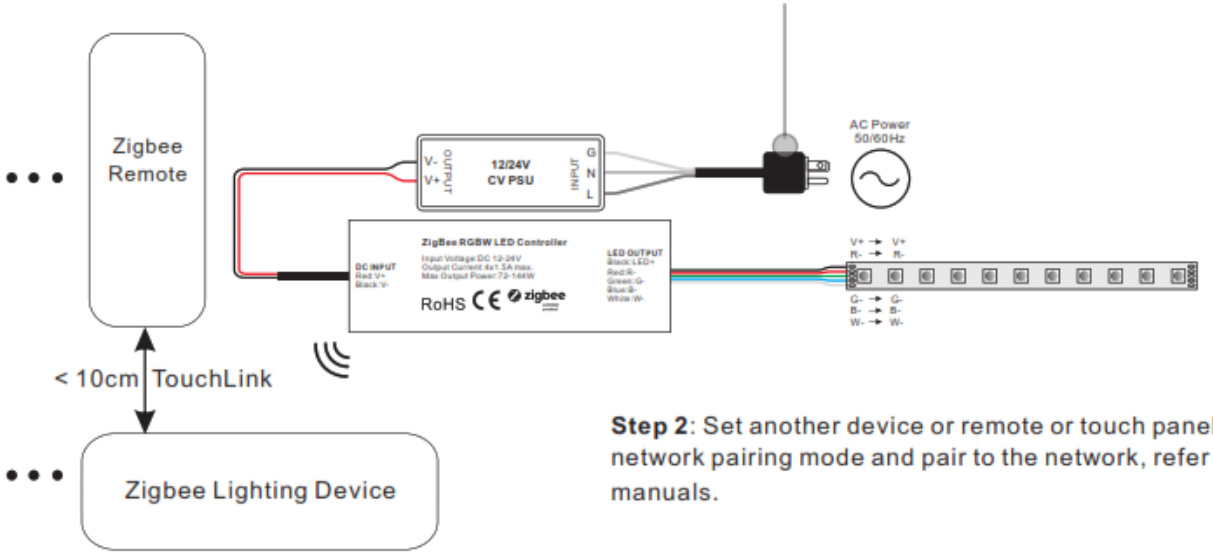


Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to corresponding remote or touch panel manual.

Step 3: There shall be indication on the remote or touch panel that it bind the device successfully and can control it then.

Setup a Zigbee Network & Add Other Devices to the Network (No Coordinator Required)

Step 1: Re-power on the device 4 times to enable the device to setup a zigbee network (connected light flashes twice) to discover and add other devices, 180 seconds timeout, repeat the operation.



Step 2: Set another device or remote or touch panel into network pairing mode and pair to the network, refer to their manuals.

Step 3: Pair more devices and remotes to the network as you would like, refer to their manuals.
Step 4: Bind the added devices and remotes through Touchlink so that the devices can be controlled by the remotes, refer to their manuals.

Note:
1) Each added device can link and be controlled by max. 30 added remotes.
2) Each added remote can link and control max. 30 added devices.

12. ZigBee Clusters the device supports are as follows:

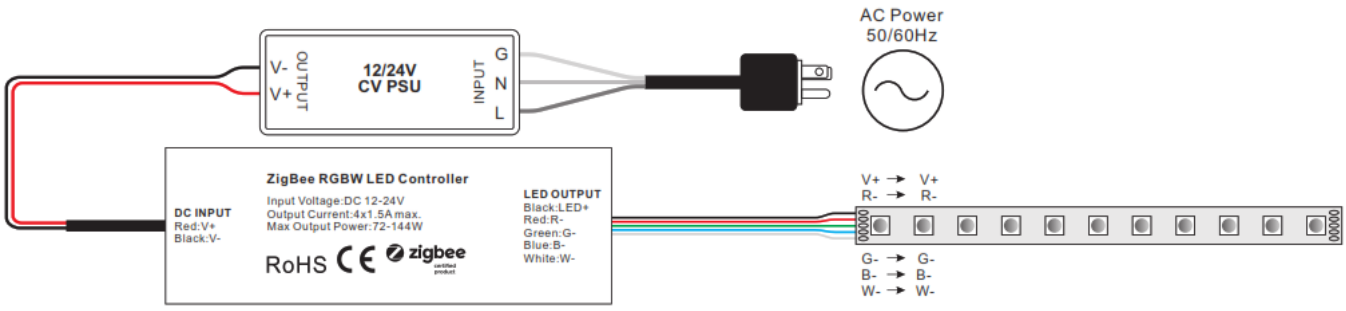
Input Clusters
- 0x0000: Basic
- 0x0003: Identify
- 0x0004: Groups
- 0x0005: Scenes
- 0x0006: On/off
- 0x0008: Level Control
- 0x0300: Color Control
- 0x0b05: Diagnostics

Output Clusters
- 0x0019: OTA

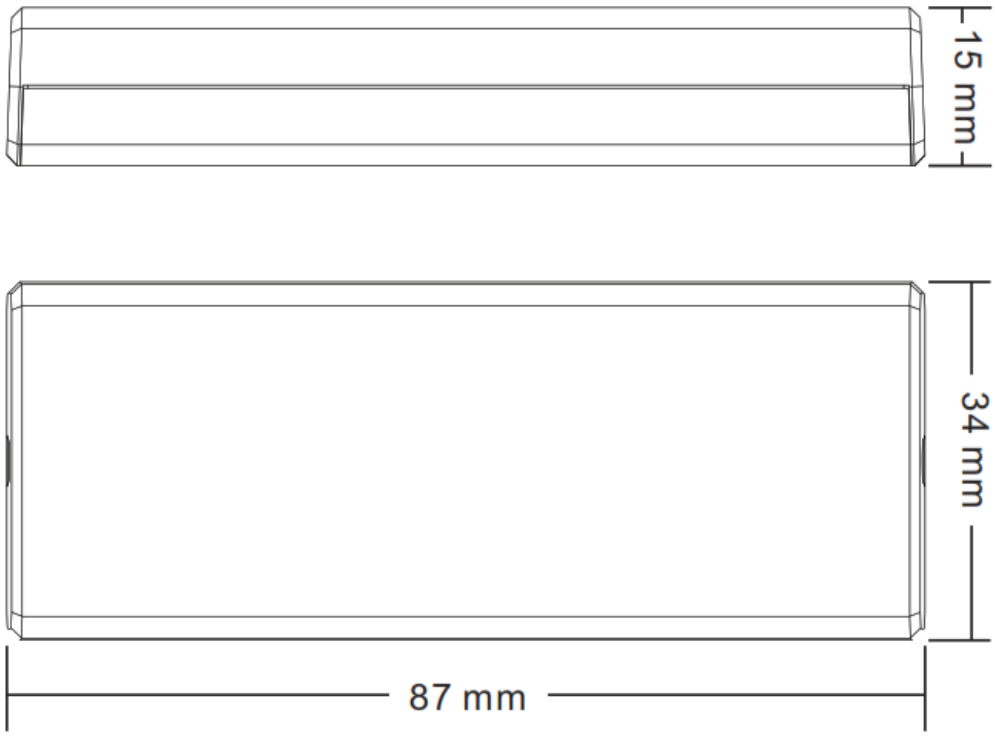
13. OTA

The device supports firmware updating through OTA and will acquire new firmware from the Zigbee controller or hub every 10 minutes automatically.

Wiring Diagram



Product Dimension



Importer:
Namron AS
Nedre kalbakkvei 88B
1081 Olso
Norway
Made in China

Documents / Resources

	NAMRON ZigBee RGBW LED Controller [pdf] Instruction Manual ZigBee, RGBW, LED, Controller