SRP-9101-100-24V

100W ZIGBEE 3.0 DIMMABLE LED DRIVER

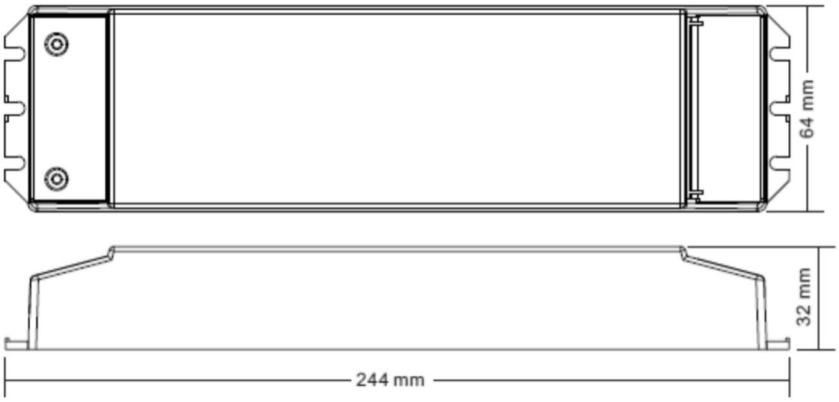
Product Features

- ZigBee 3.0 dimmable singel color Led driver, 24VDC
- Compatible with universal ZigBee coordinator or gateway products like Philips Hue, Amazone Alexa, etc.
- Can directly pair to a compatible ZigBee remote via Touchlink
- Supports zigbee green power and can bind max. 20 zigbee green power remotes
- Built-in two-stage active PFC function, PF > 0.90, Efficiency > 90%
- Compliant with Safety Extra Low Voltage standard
- IP20 rating, suitable for indoor LED lighting applications

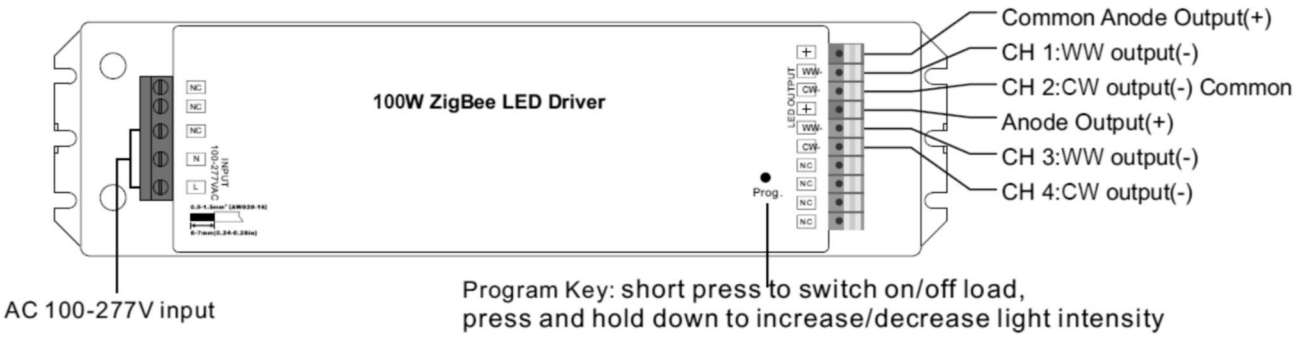
Technical data

INPUT	**Voltage Range**	100-240VAC
	Frequency Range	50/60Hz
	Power Factor (typ.)	>0.9@230VAC
	Total Harmonic Distortion	THD ≤ 15% (@ full load /230VAC)
	Efficiency typ.	90% @ 230VAC full load
	AC Current (typ)	1.2A @ 100VAC, 0.5A @ 230VAC
	Inrush Current (typ)	Cold start max. 50A@230VAC
	Leakage Current	< 0.5mA/230VAC
	Stand by Power Consumption	1W
OUTPUT	**LED Channel**	1
	DC Voltage	24VDC
	Voltage Tolerance	+/- 1%
	Max. Current	max. 4.1A
	Rated Power	max. 98.4W
PROTECTION	**Short Circuit**	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after fault condition is removed
CONTROL	**Dimming Interface**	ZigBee 3.0
	Dimming Range	0.1% - 100%
	Dimming Methode	PWM, 1.5kHz
	Dimming Curve	Logarithmic
ENVIRONMENT	**Working Tempetrature**	-20°C - + 45°C
	Max. Case Temperature	75°C
	Working Humidity	10%-95% RH non-condensing
	Storage Temperature	-40°C - +80°C
	Storage Humidity	10% - 95% RH
	IP Rating	IP20 (suitable for indoor LED lighting applications)
Safety & EMC	**Safety Standards**	TUV EN61347-1, EN61347-2-13 approved
	DALI Standards	Comply with IEC 62386-209:2011
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, , surge immunity Line-Line 1KV
Others	**MTBF**	193.6K hrs min. @ 230VAC full load and 25°C ambient temperature
	Dimension	244 x 64 x 32mm

Product Dimension



Function introduction

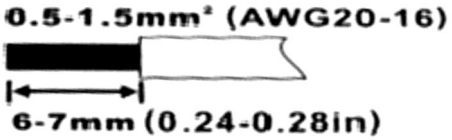


Installation

Safety & Warnings

- ***• DO NOT install with power applied to the device.***
- ***• DO NOT expose the device to moisture.***
- ***The installation of the device mus be done by a specialist.***

- Approved wire diameter: AWG16—AWG20 / 0.5mm^2-1.5mm^2



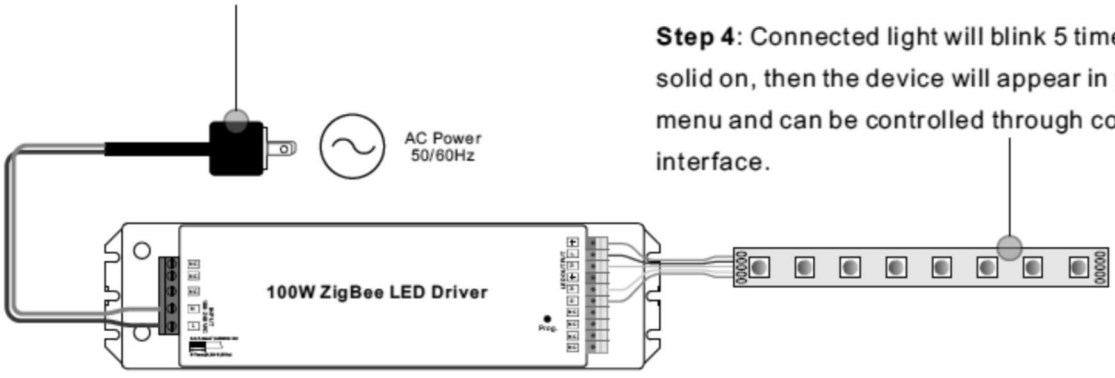
ZigBee Network Pairing through Coordinator or Hub (Add to a network)

Step 1: Remove the device from 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 lighting device and enter Pairing mode as instructed by the controller.

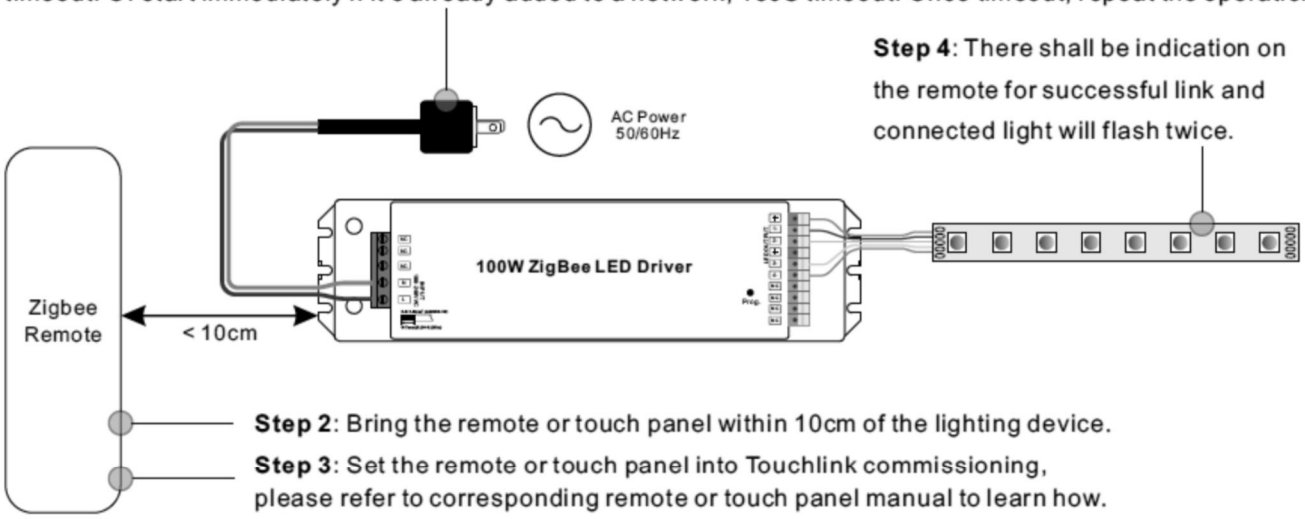
Step 3: Re-power on the device to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat the operation.

Step 4: Connected light will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through controller or hub interface.



TouchLink to a ZigBee remote

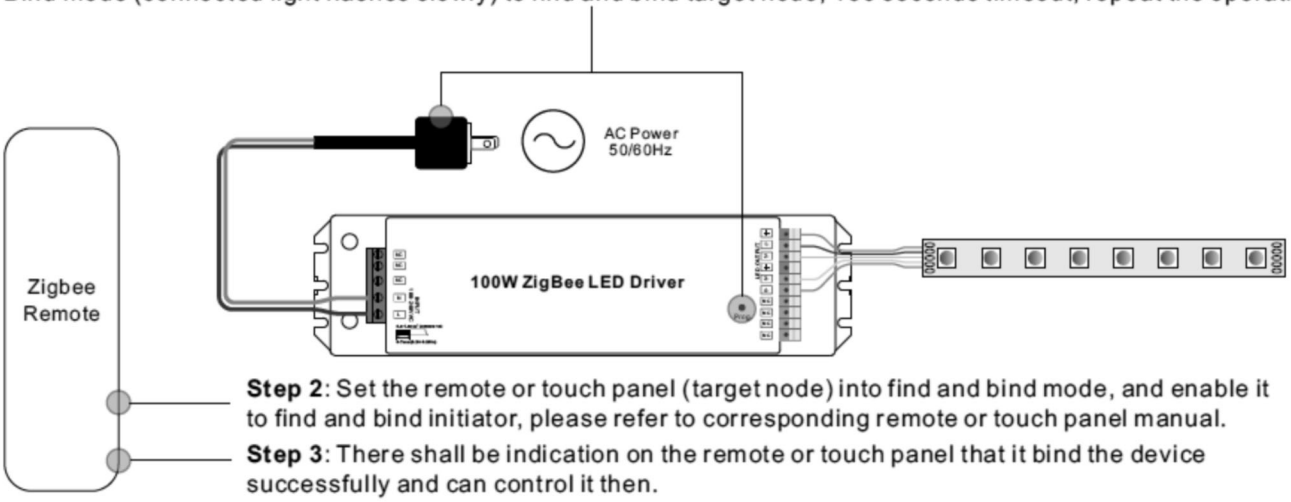
Step 1: Re-power on the device, Touchlink commissioning will start after 15S if it's not added to a network, 165S timeout. Or start immediately if it's already added to a network, 180S timeout. Once timeout, repeat the operation.



Note: 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.
2) TouchLink after both 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 network first then TouchLink.
4) After TouchLink, the device can be controlled by the linked remotes.

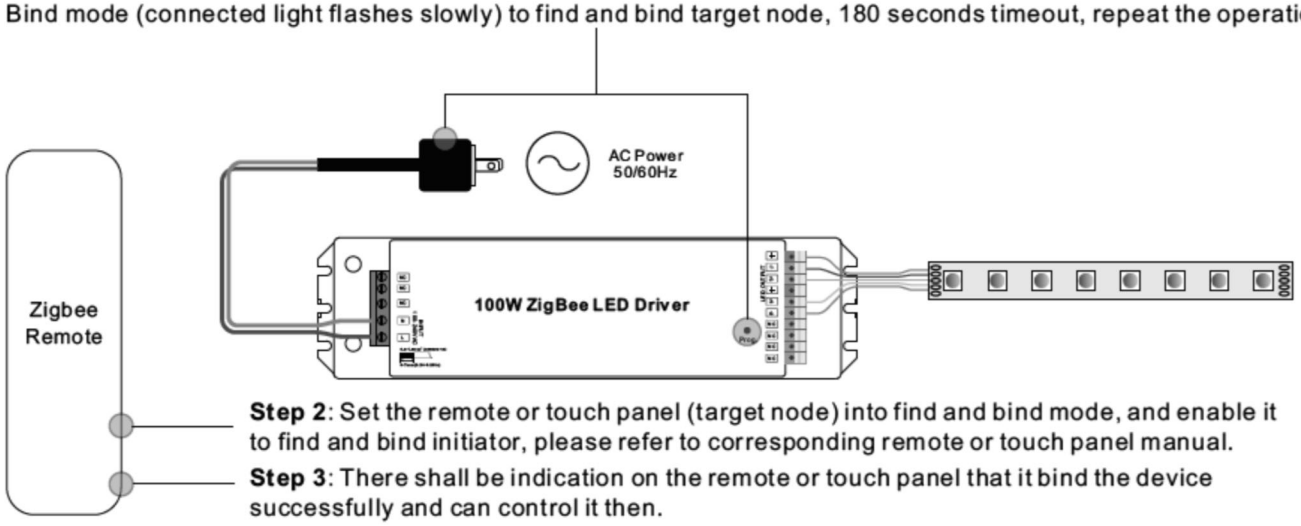
Learning to a ZigBee Green Power remote

Step 1: Short press "Prog." button 3 times (Or 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.



Find and Bind Mode

Step 1: Short press "Prog." button 3 times (Or 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.

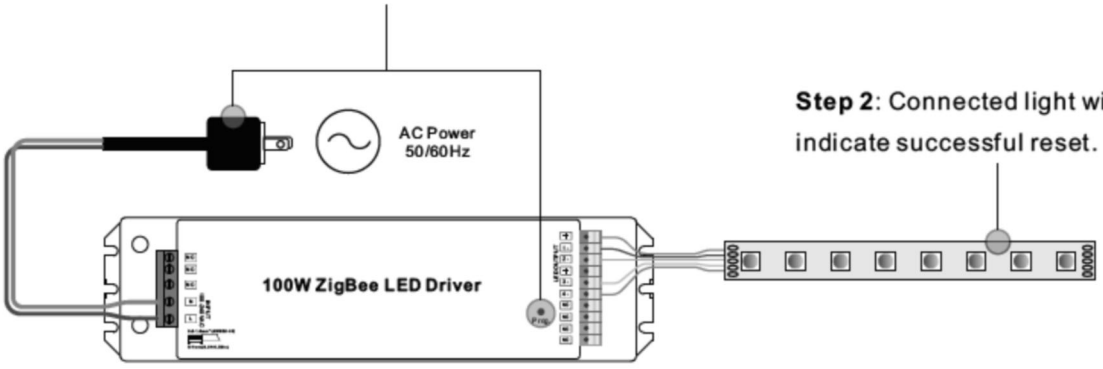


Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to corresponding remote or touch panel manual.

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

Factory reset manualy

Step 1: Short press "Prog." key for 5 times continuously or re-power on the device for 5 times continuously if the "Prog." key is not accessible.



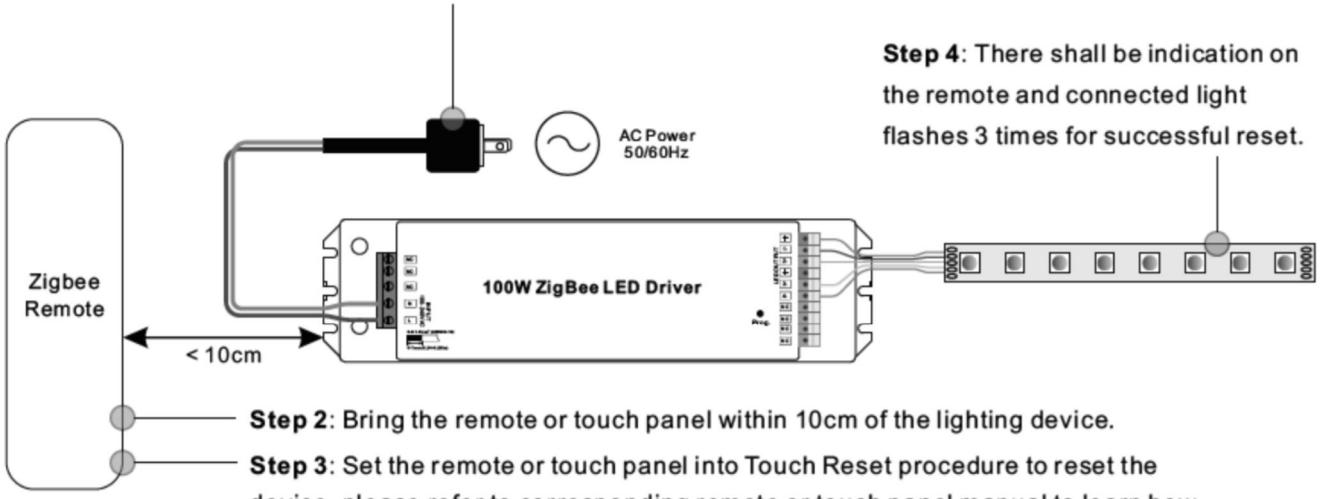
Step 2: Connected light will blink 3 times to indicate successful reset.

Note: 1) If the device is already at factory default setting, there is no indication when 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)

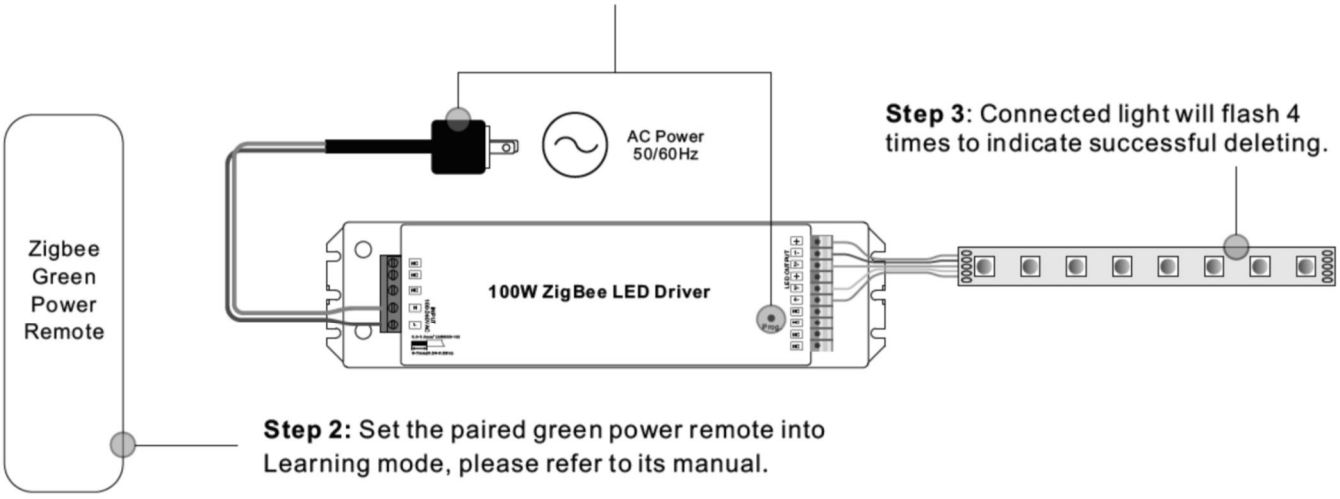
Note: Make sure the device already added to a network, the remote added to the same one or not added to any network.

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



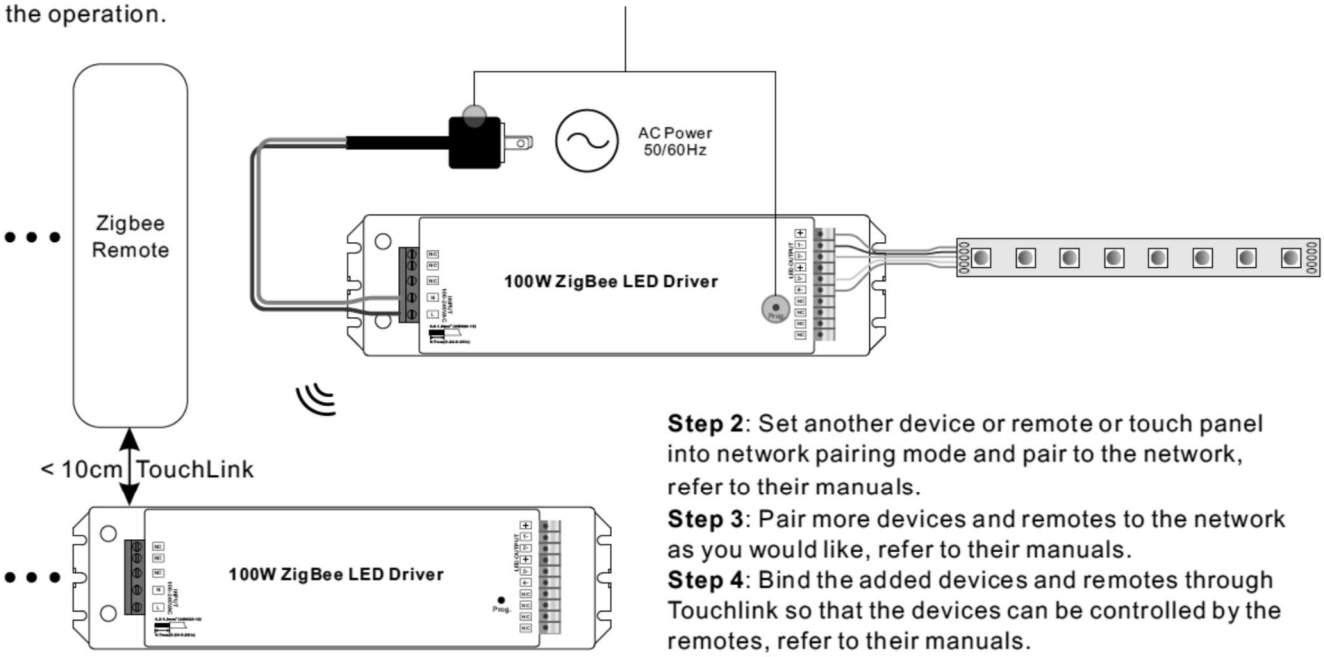
Delete learning to a ZigBee Green Power remote

Step 1: Short press “Prog.” button 3 times (Or re-power on the device 3 times) to start delete Learning mode (connected light flashes slowly), 180 seconds timeout, repeat the operation.



Setup a ZigBee Network & add other devices to the Network (Not coordinator required)

Step 1: Short press "Prog." button 4 times (Or 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.

ZigBee clusters the device supports

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

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