Xiaolei

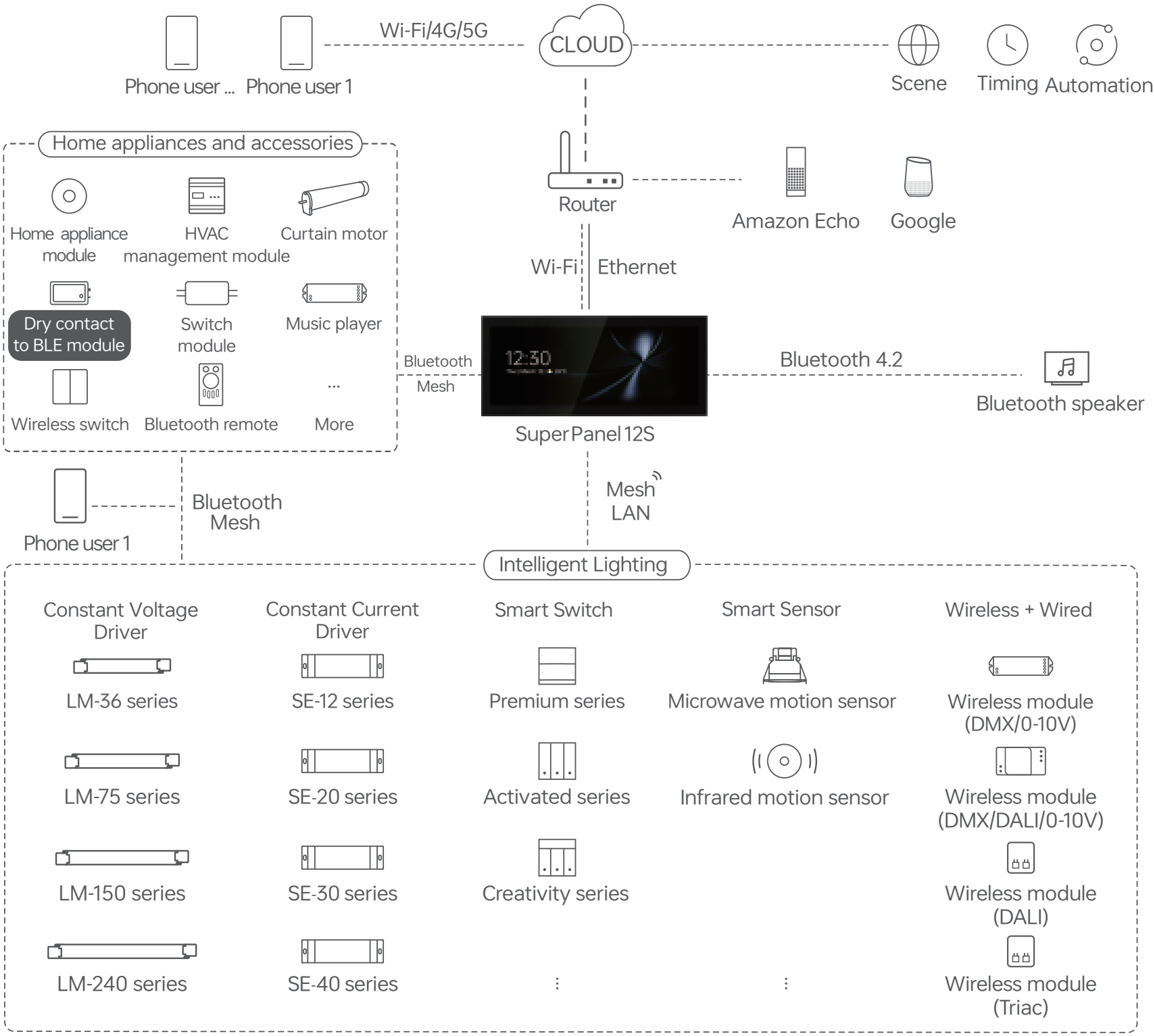
Wireless Module
(Dry Contact to Bluetooth)

CG-TB

Manual

www.xiaolei.com.cn

Application Diagram



Product Features

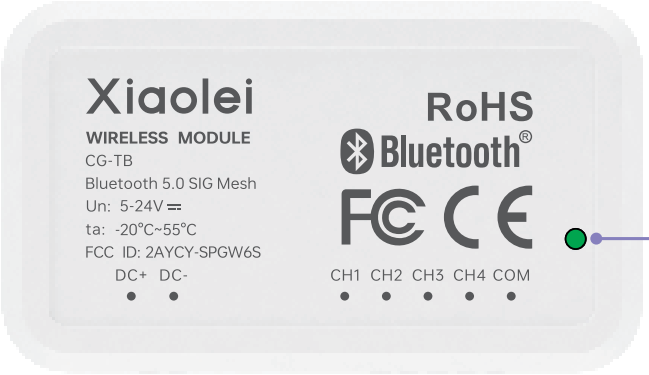
- Small size, light weight. Housing made from SAMSUNG/COVESTRO's V0 flame retardant PC materials;
- Wide input voltage range, anti-reverse protection;
- 4 input channels contain up to 15 input combinations to flexibly control lights, curtains and scenes;
- Control lights, curtains and local scenes in our smart home system using either a mechanical switch, a reset switch or a third-party dry contact device;
- Integrate into the third-party dry contact control system ;
- Support OTA update, maintain ultra-low power consumption;
- Bluetooth 5.0 SIG Mesh with high networking capacity provides reliable and stable performance;
- Connect our Bluetooth to dry contact module (CG-TRIG) to work together so as to link with multiple homes and enable more device connection;
- Support local scenes that still run without the Internet or a gateway. It is faster and more stable;
- Add a smart gateway to achieve a variety of automation.

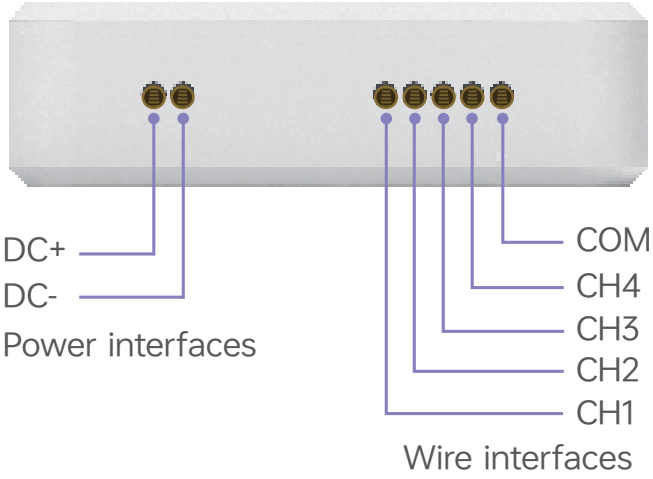
Technical Specs

Model	CG-TB
Wireless Protocol Type	Bluetooth 5.0 SIG Mesh
Wire channel	4CH
Input Voltage	5-24Vdc
Working Temperature	-20°C~55°C
Dimensions(L×W×H)	L48×W28×H14(mm)
Package Size(L×W×H)	L52.5×W40×H30(mm)
Weight	20g

Bluetooth® CE RoHS

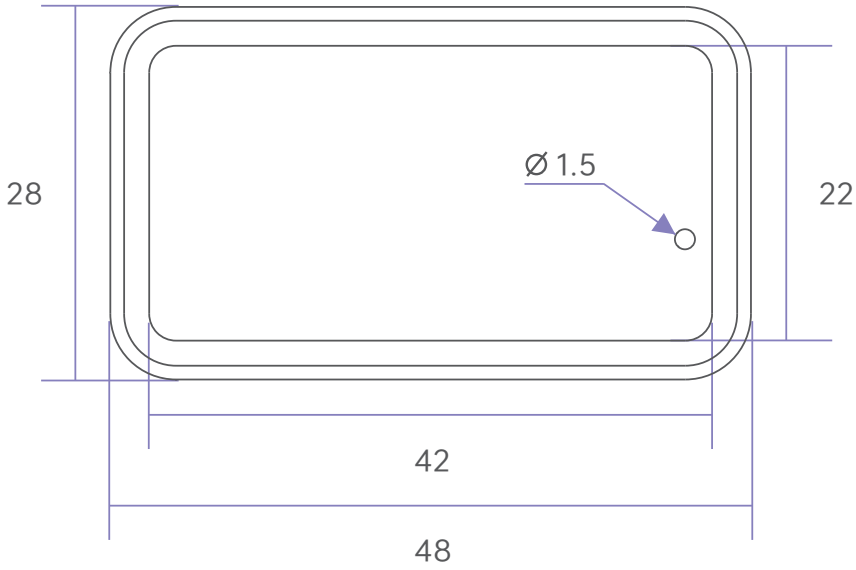
Product Images

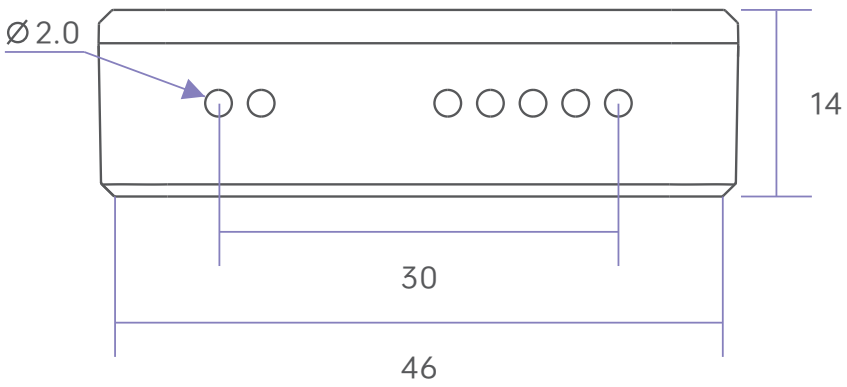




Product Size

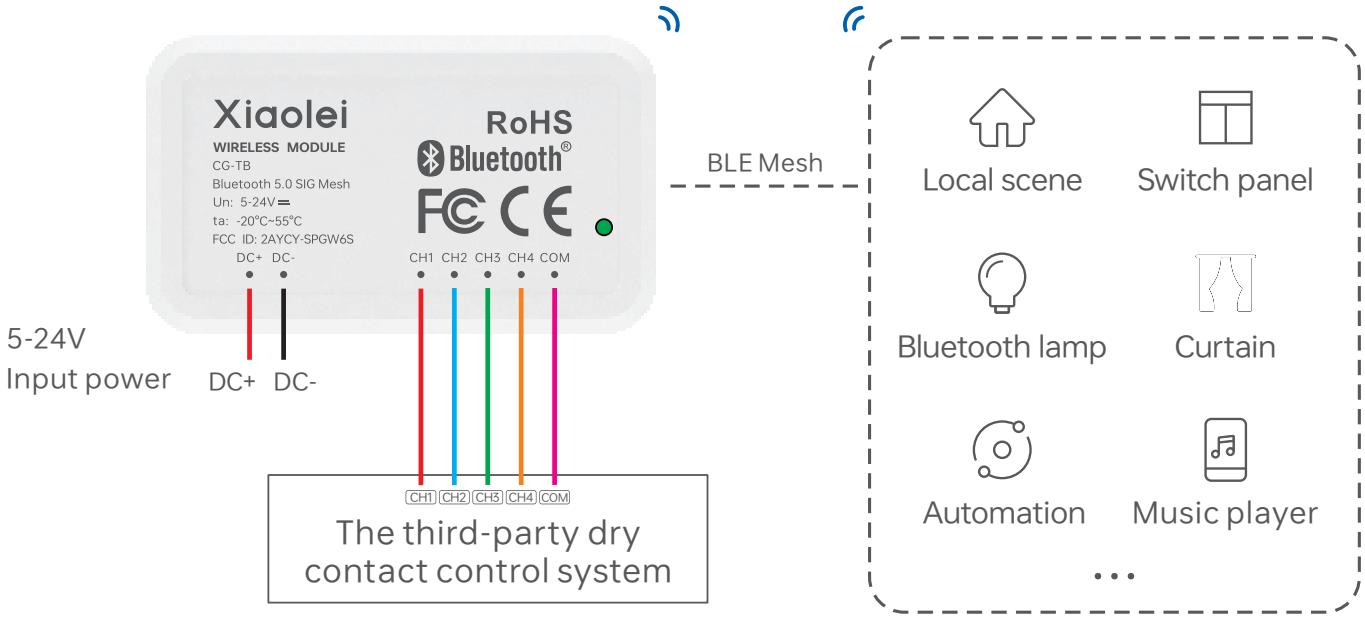
Unit:mm



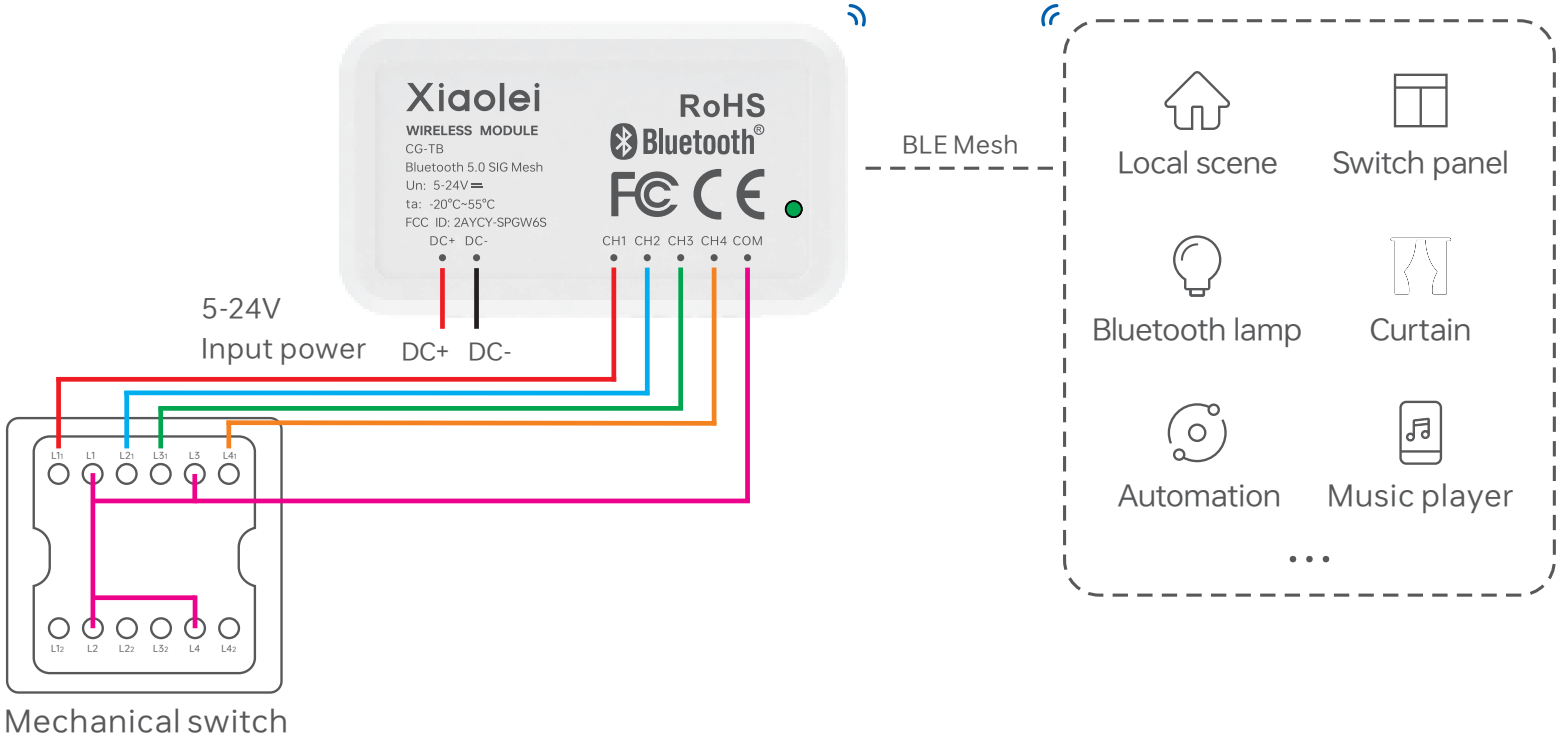


Wiring Diagram

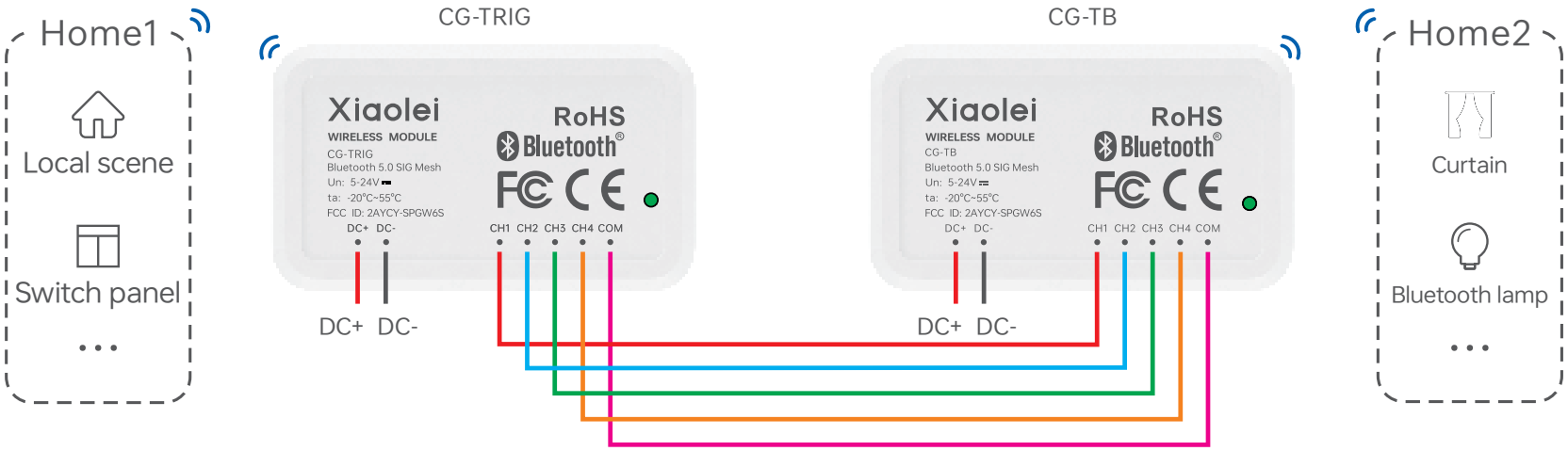
Connect to a third-party system



Connect to a mechanical switch

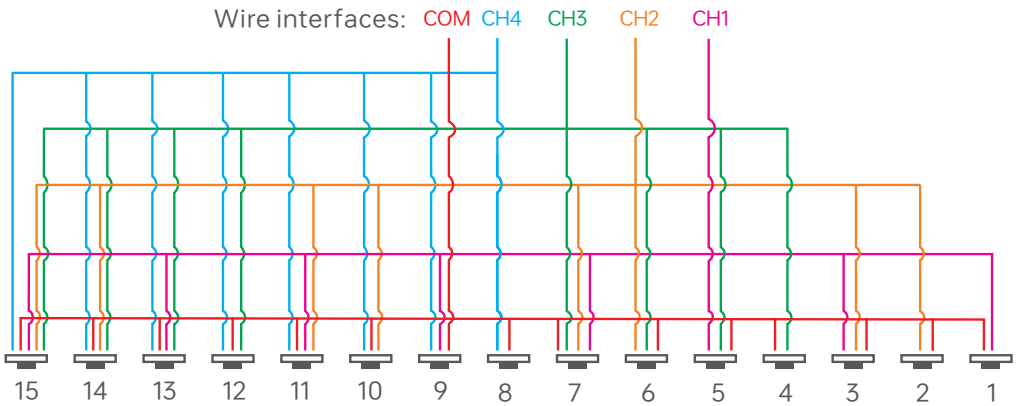


Connect to multiple homes



Combination Of Wire Interfaces

The 4 channels of the module can be connected as shown in the figure below. Up to 15 scenes can be triggered by combining CH1,CH2, CH3, CH4 together using the binary rule.

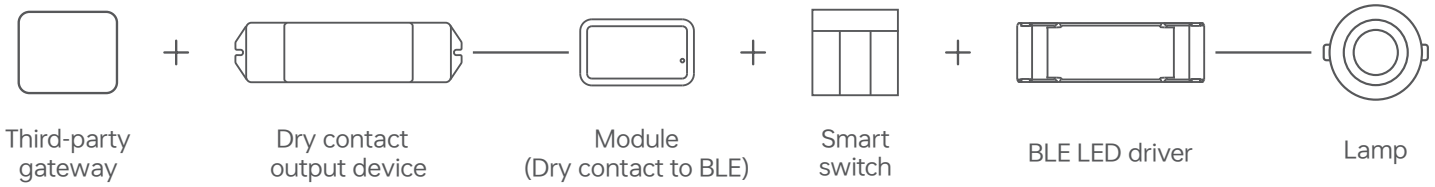


No.1-15 stand for 15 commands

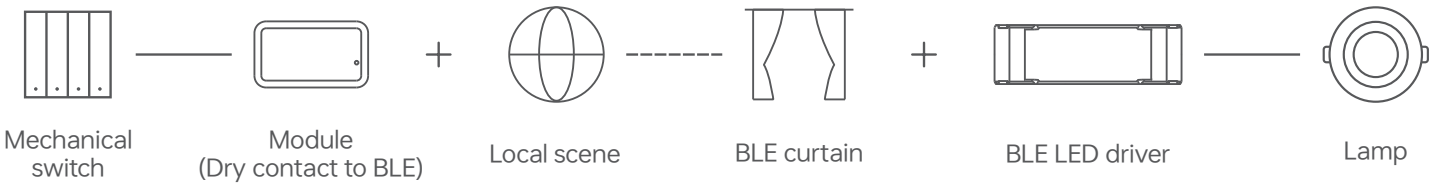
Command	Channel combination	Selectable binding
1	CH1+COM	Light/light group Switch panel/ switch panel group Curtain/curtain group Music player Local scene Automation
2	CH2+COM	
3	CH1+CH2+COM	
4	CH3+COM	
5	CH1+CH3+COM	
6	CH2+CH3+COM	
7	CH1+CH2+CH3+COM	
8	CH4+COM	
9	CH1+CH4+COM	
10	CH2+CH4+COM	
11	CH1+CH2+CH4+COM	
12	CH3+CH4+COM	
13	CH1+CH3+CH4+COM	
14	CH2+CH3+CH4+COM	
15	CH1+CH2+CH3+CH4+COM	

Applications

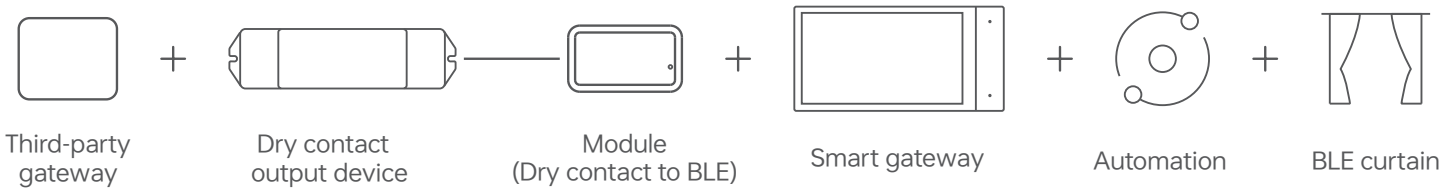
1. Third-party control: After the BLE device is connected with the module (dry contact to BLE)via APP, our BLE device can be controlled by the third-party system.



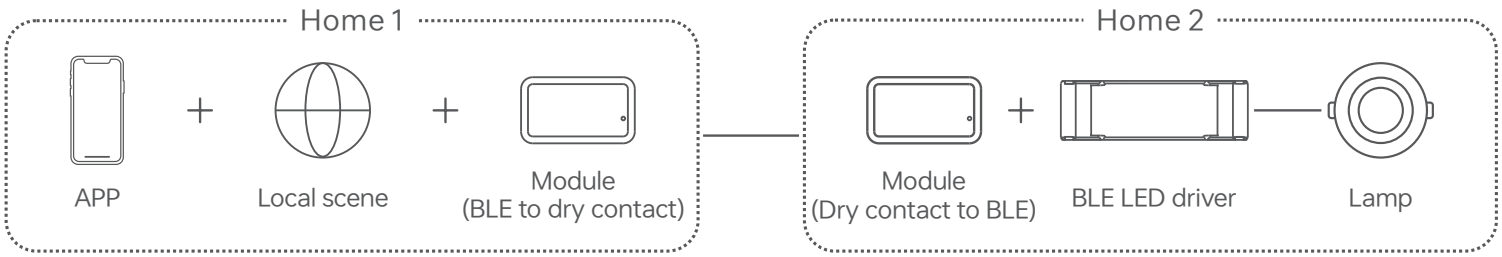
2. Trigger local scenes: No Internet, no gateway needed.



3. Trigger automation: Add a smart gateway to achieve a variety of automation.



4. Link with different homes: Connect our wireless module (Bluetooth to dry contact) to work together so as to link with multiple homes and enable more device connection.



5. More applications of intelligent control are waiting for you to set up.

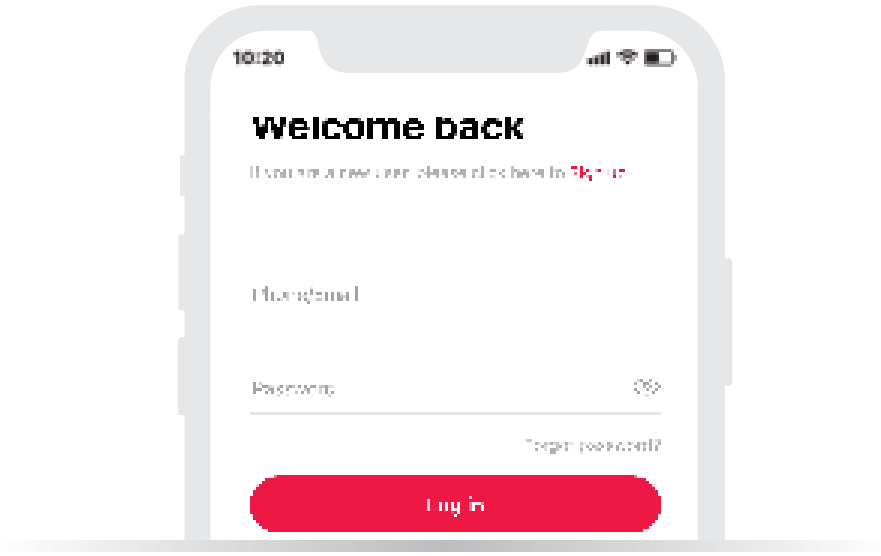
App Operating Instructions

1. Register an account

1.1 Scan the QR code below with you mobile phone and follow the prompts to complete the app installation.

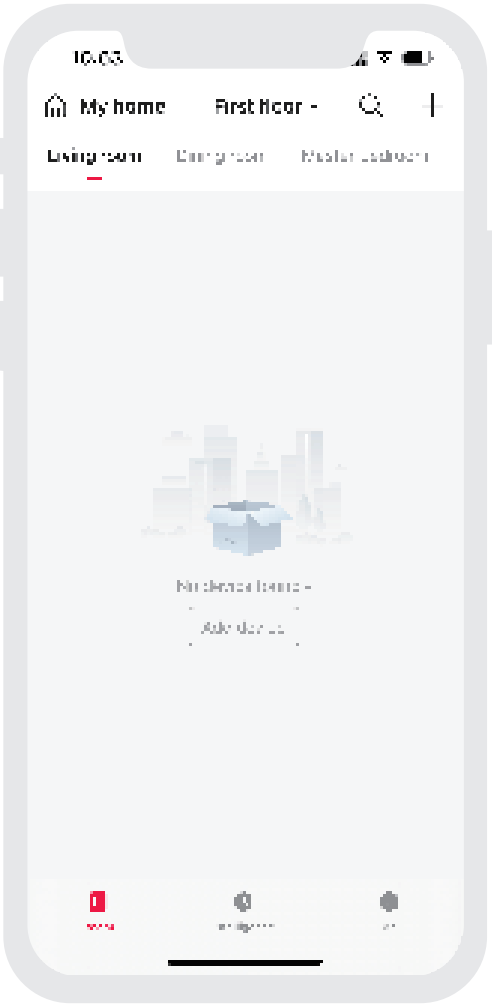
Scan and download the App

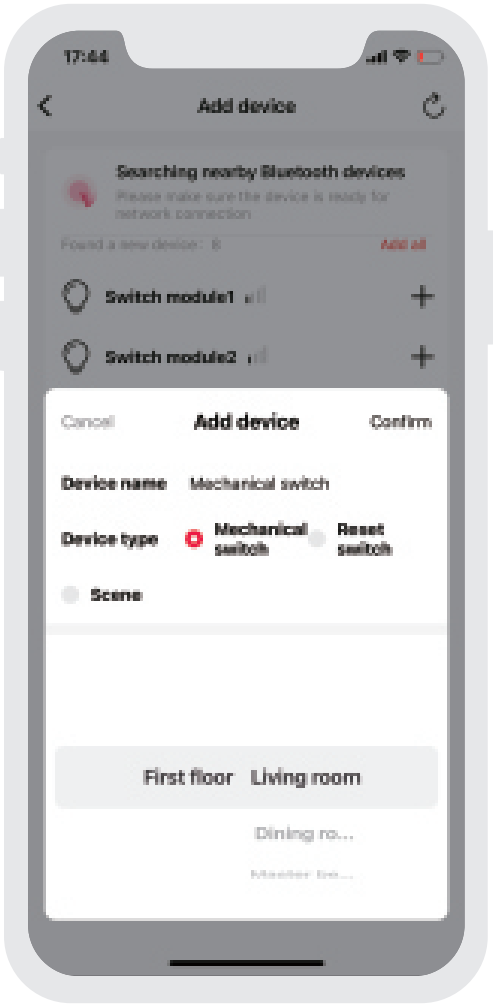
1.2 Open the App and log in or register an account.



2. Pair with the device

Create a home if you are a new APP user. Click【+】icon in the upper right corner to access the “Add device” page. Power the device first and make sure it hasn't been connected to the network, then click “Search via BLE” .When the “Module (Dry contact to BLE)” is found, tap the corresponding【+】icon to add it and select the device type.



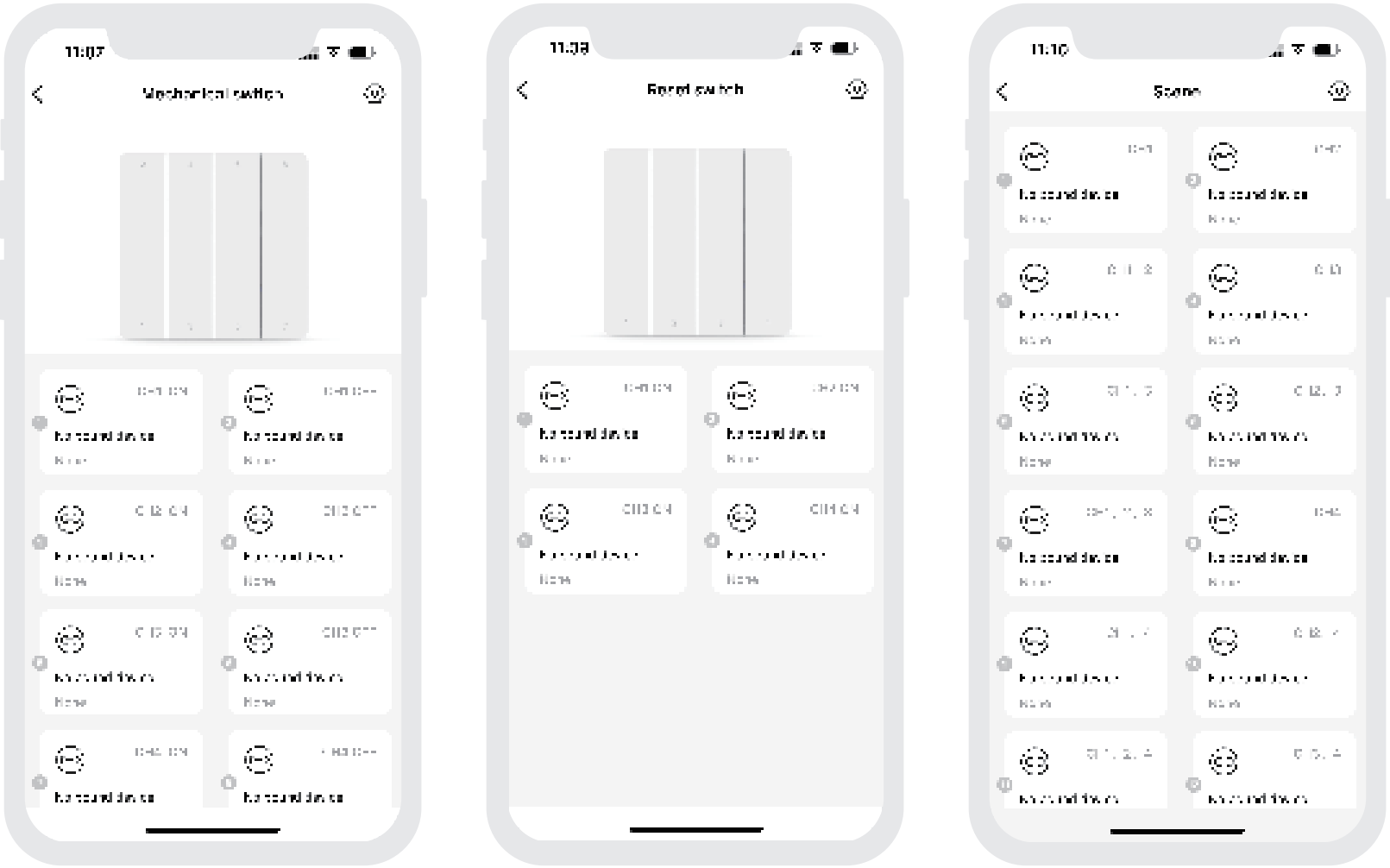


3. Select the device type

Mechanical switch: Supports binding 8 objects. Like a 4-gang mechanical switch, you can press the ON and OFF keys of gang 1/2/3/4 respectively to perform different actions, a total of 8 actions triggered.

Reset switch: Supports binding 4 objects. Like a 4-gang reset switch, you can press the keys of gang1/2/3/4 respectively to perform different actions, a total of 4 actions triggered.

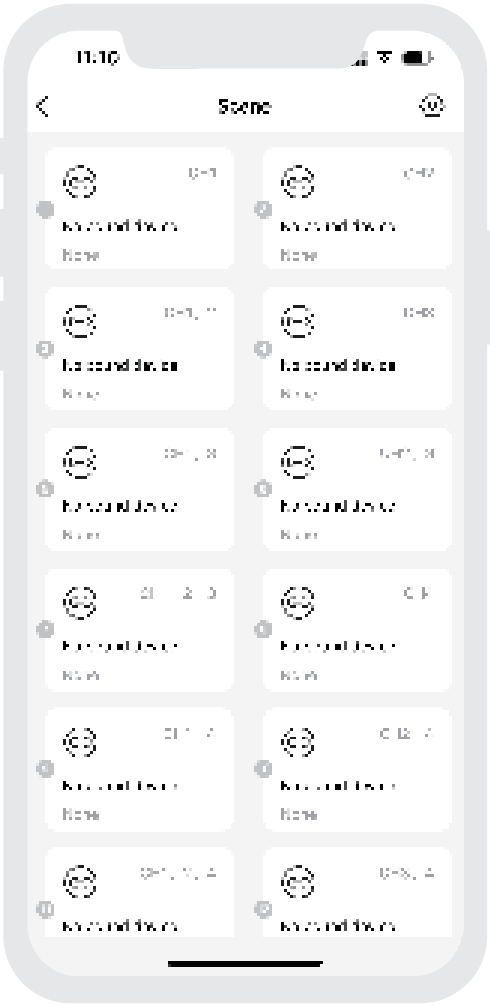
Scenes: Support binding a maximum of 15 scenes. Combine CH1, CH2, CH3, CH4 together using the binary rule to trigger up to 15 scenes.Tap the cards in the control interface to modify the corresponding scenes and key names you bound.

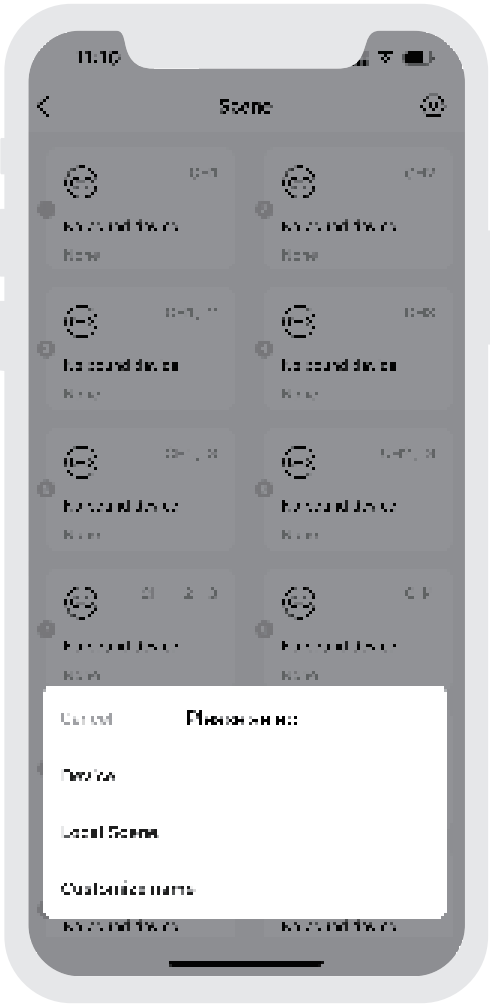


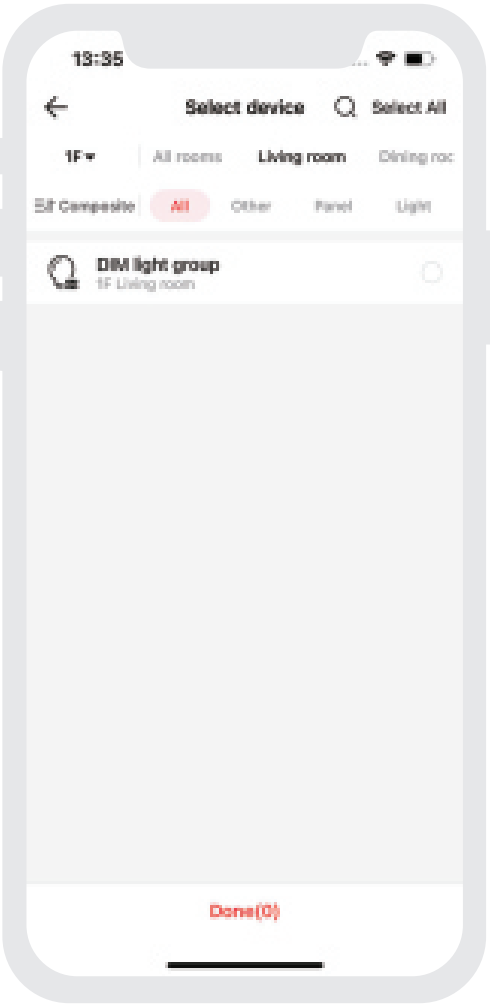
4. Bind an object

In the“Room”interface, click 【Dry contact to BLE module】 you have added to access its control interface. If you want to bind a scene, select a card between Card 1-15 and click【Bind object- Device/Local scene】,then set an action and save it.

Bind a local scene: In the control interface, select a scene card between Card 1-15 (Card 1-8 for mechanical switch, Card 1-4 for reset switch) and click 【Bind object- Local scene】. After saving the setting successfully, you can click the corresponding key of the switch in the APP to execute the bound local scene.

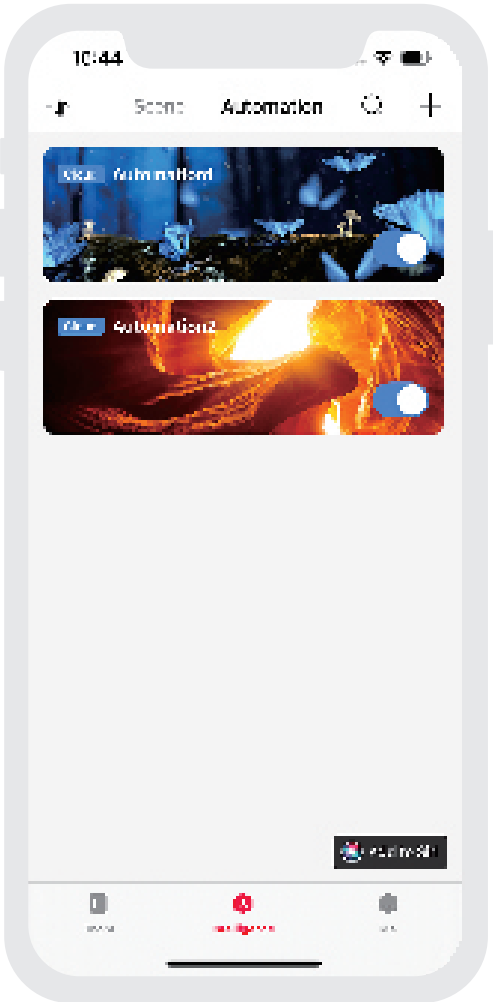


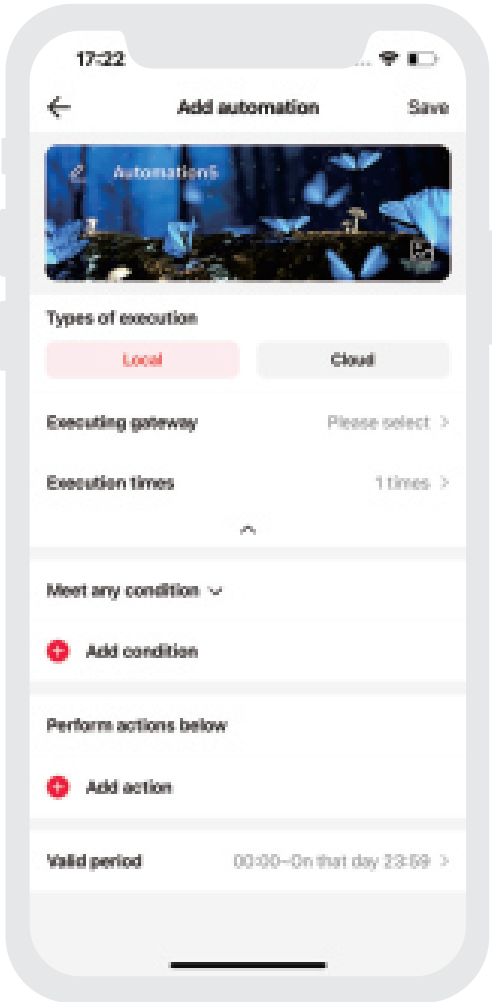


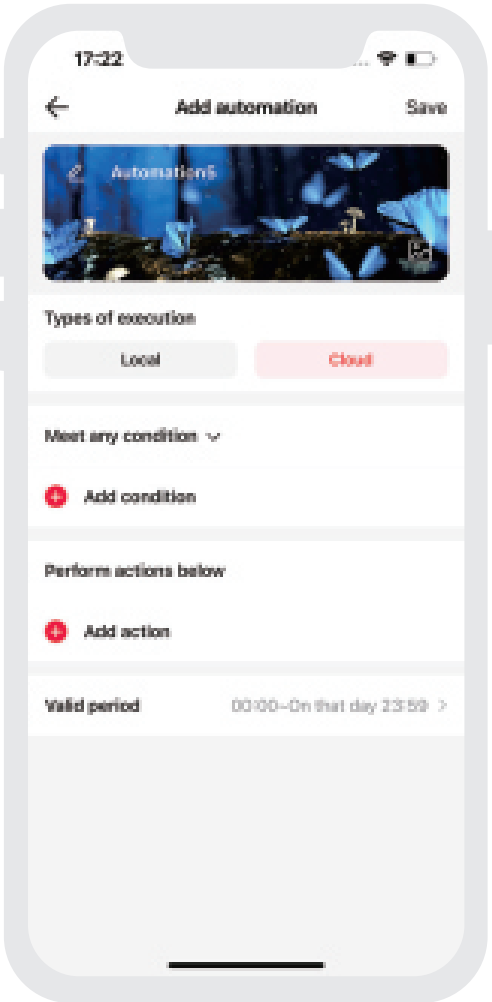


5. Automation

Please be sure you have added a smart gateway to your home, such as Super Panel 12S. In the “Intelligence” interface, select 【Automation】 and tap 【+】 icon to create automation.
Then set trigger conditions and execution actions.When the trigger conditions you set are met, a series of device actions are automatically triggered to execute and remote linkage can be realized.







FAQs

1. What should I do if I fail to search the device via APP?

Please check below:

1.1 Please make sure the device is powered on normally and is in the activated state.

1.2 Please keep you mobile phone and device as close as possible. The recommended distance between them is no more than 15 meters.

1.3 Please make sure the device hasn't been added yet. If it has, please reset the device to factory defaults manually.

2. How to reset the device to factory defaults?

Turn the BLE wireless module off with the switch. After 5s,turn it on. After 2s, turn it off again. Repeat the same operation 6 times. When the lamp flashes 5 times , reset it to factory defaults successfully.

Attentions

- Product installation and commissioning should be done by a qualified professional.
- LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices .
- Good heat dissipation will prolong the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- Warranty periods from the date of manufacture: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

Following conditions are not within the guarantee range of free repairing or replacement services:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract or invoice signed by LTECH .

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law .
2. LTECH has the right to amend or adjust the terms of this warranty. The warranty that issues in writting shall prevail.