

Xiaolei

Wireless Module (Dry Contact to Bluetooth)

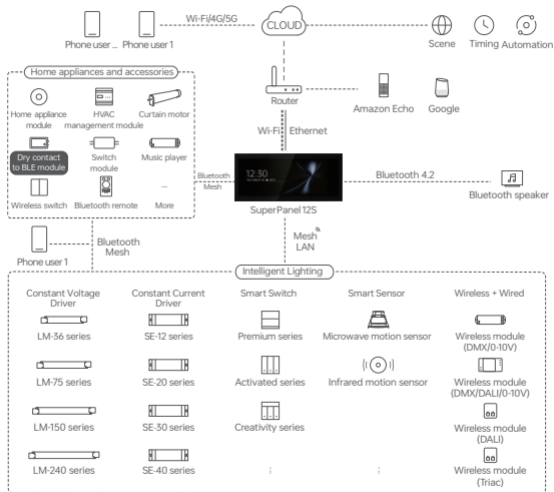
CG-TB



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

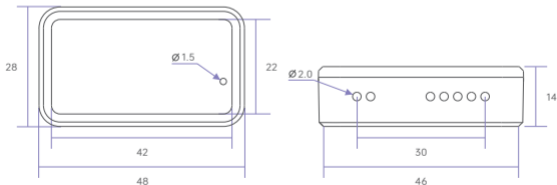
Model	CG-TB
Wireless Protocol Type	Bluetooth 5.0 SIG Mesh
Wire channel	4CH
Input Voltage	5-24Vdc
Working Temperature	-20°C~55°C
Dimensions(L×W×H)	L48×W28×H14(mm)
Package Size(L×W×H)	L52.5×W40×H30(mm)
Weight	20g

Product Images



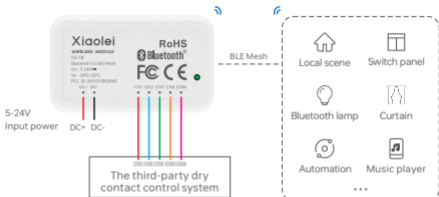
Product Size

Unit:mm

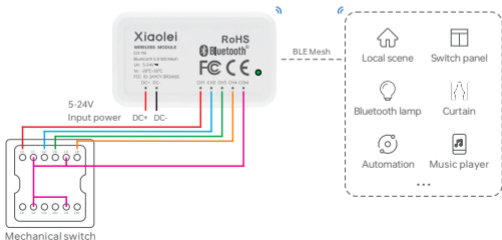


Wiring Diagram

Connect to a third-party system



Connect to a mechanical switch

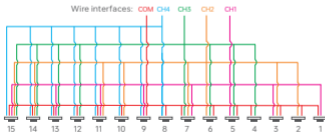


Connect to multiple homes



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.



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

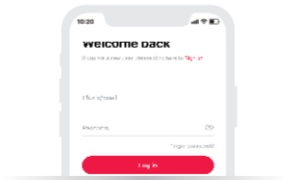
1. Register an account

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



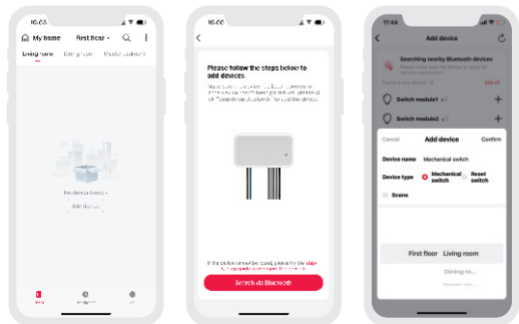
Scan and download the App

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.

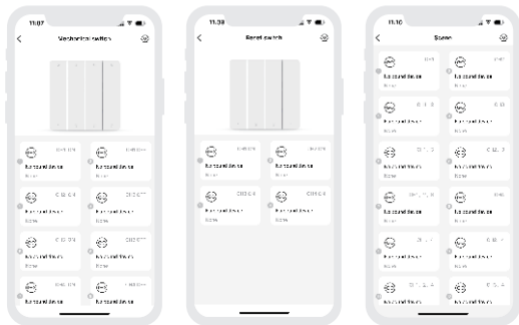


3. Select the device type

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.

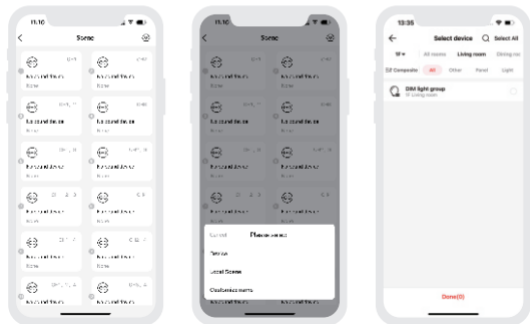
Scenes: Support binding a maximum of 15 scenes. Combine CH1, CH2, CH3, CH4 together using the binary rule to trigger up to 15 scenes. Tap the cards in the control interface to modify the corresponding scenes and key names you bound.



4. Bind an object

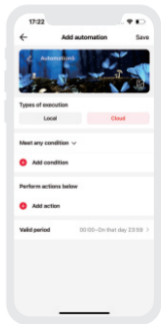
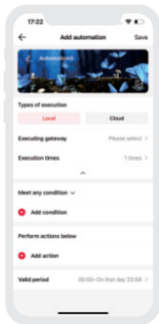
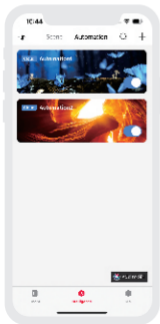
In the "Room" interface, click **【Dry contact to BLE module】** you have added to access its control interface. If you want to bind a scene, select a card between Card 1-15 and click **【Bind object- Device/Local scene】**, then set an action and save it.

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 automation 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 writing shall prevail.

Xiaolei

干接点转蓝牙模组

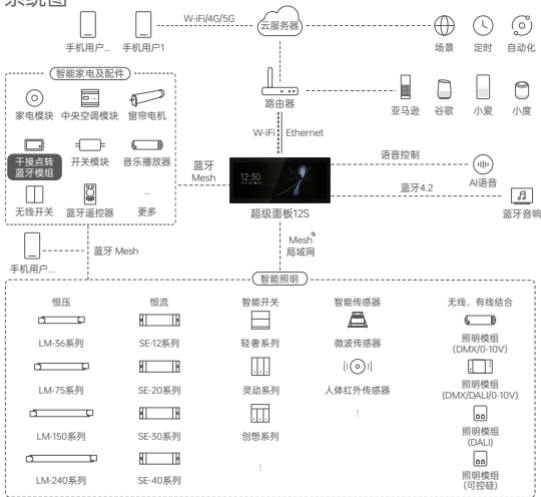
型号: CG-TB



使用说明书

www.xiaolei.cn

系统图



产品介绍

- 体积小、重量轻，科思创/三星PC阻燃V0级原料外壳；
- 宽输入电压设计，防反接保护；
- 4通道接口15个输入控制逻辑，灯光、窗帘、场景随心而动；
- 支持机械开关、复位开关和第三方干接点输出设备触发控制我司系统控制灯光、窗帘、本地场景等；
- 超高兼容性，可融入第三方干接点控制系统，扩展产品灵活性；
- 支持OTA升级，具有超低功耗功能；
- Bluetooth 5.0 SIG Mesh 通信协议，组网能力强，可靠稳定；
- 结合我司蓝牙转干接点模组，还可连接不同家庭，实现系统设备扩容及更多功能组合；
- 支持本地场景，去网关，断网可控，更快更稳定；
- 搭配智能网关还可实现丰富的自动化控制。

技术参数

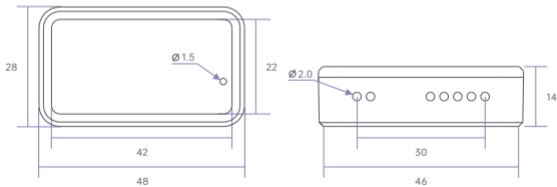
型号	CG-TB
无线类型	Bluetooth 5.0 SIG Mesh
接点通道	4CH
输入电压	5-24Vdc
工作温度	-20°C~55°C
产品尺寸	L48×W28×H14(mm)
包装尺寸	L52.5×W40×H30(mm)
重量(毛重)	20g

产品图示



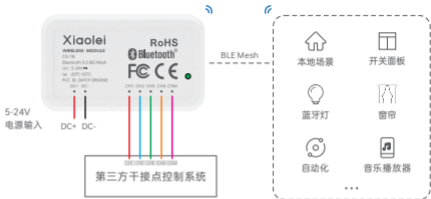
产品尺寸

单位: mm

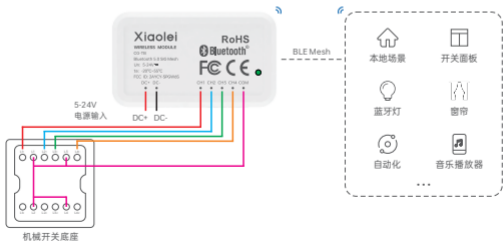


连接图

联动第三方系统接线方式



机械开关接线方式

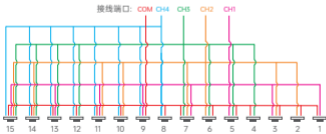


家庭联动接线方式



接线口组合搭配

干接点的4个通道可通过下图方式连接，可触发15个场景。
(CH1 CH2 CH3 CH4 以二进制组合方式来对应)。



No. 1-15 代表15个指令

指令	通道组合	可绑定功能
1	CH1+COM	灯/灯组 开关面板/ 开关面板组 窗帘/窗帘组 音乐播放器 本地场景 自动化...
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	

应用搭配

1. 第三方控制：通过APP设置干接点转蓝牙模组关联蓝牙设备后,可实现第三方系统触发我司蓝牙设备动作。



2. 本地场景：支持触发本地场景，去网关，断网执行。



3. 自动化：搭配智能网关实现丰富的自动化控制。



4. 不同家庭联动：搭配我司蓝牙转干接点模组可实现设备扩容，联动不同家庭。



5. ...智能控制，更多应用搭配等您来设置。

APP操作说明

1. 账号注册

1.1 通过手机扫描下方二维码，按提示完成APP安装。



扫码下载APP

1.2 打开APP进行登录/注册操作。



2. 配对操作

新用户在手机APP上创建家庭后，点击右上角【+】进入添加设备列表，先将设备接通电源，确保设备处于未入网状态，然后点击“蓝牙搜索”，等待“干接点转蓝牙模组”成功搜索后，点击对应的“+”按照界面提示，选择设备类型。



3. 选择设备类型

机械开关：可绑定8个绑定对象，类似4位机械开关，1/2/3/4键的ON/OFF可分别执行不同动作，共可触发8个动作。

复位开关：可绑定4个绑定对象，类似4位复位开关，1/2/3/4键可分别执行不同动作，共可触发4个动作。

场景：可绑定15个场景，由CH1、CH2、CH3、CH4、COM通道通过组合方式，共可触发15个场景。点击控制界面对应卡片，可修改绑定前对应场景和按键名称。



4. 绑定对象

在“房间”界面点击已添加的干接点转蓝牙模组进入设备控制界面。如场景，点击1-15通道卡片，选择【绑定对象-设备/本地场景】并设置动作后，保存即可。

绑定本地场景：点击对设备页1-15场景卡片（机械开关1-8个卡片；复位开关1-4卡片）

【绑定对象-本地场景】保存成功后，点击对应按钮即可执行所绑定的本地场景。



5. 自动化

确保家庭内已添加智能网关，如超级面板12S。在“智能”界面中选择【自动化】，点击【+】创建自动化。设置触发条件及执行动作，当满足已设置的触发条件时，自动触发一系列设备动作，实现远程联动。



常见问题

1. 设备一直搜索不到怎么办？

请检查以下选项：

- 1.1 确保设备正常通电状态；
- 1.2 确保手机与设备两者尽量靠近，建议不超过15米；
- 1.3 确保设备未被添加过，如被添加过，请手动恢复出厂。

2. 如何恢复出厂？

使用开关让干接点转蓝牙模组连续通断电6次(每次断电时间5秒，通电2秒)，第六次通电2秒，指示灯闪烁5次，即表示干接点转蓝牙模组已恢复到出厂设置状态。

注意事项

- 请由具有专业资格的人员进行调试安装。
 - 雷特产品（专有型号除外）不能防水防雷，需避免日晒雨淋，如安装在户外，请用防水箱和防雷装置。
 - 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。
 - 请检查使用的工作电压是否符合产品的参数要求。
 - 使用的电线直径大小必须能够负载连接的LED灯具，并确保接线牢固。
 - 通电调试前，应确保所有接线正确，以避免因接线错误而导致灯具损坏。
 - 如果发生故障，请勿私自维修；如有疑问，请联系供应商。防水箱和防雷装置。
- * 本说明书的内容如有变更，恕不另行通知。若内容与您使用的功能有所不同，则以实物为准。如有疑问，欢迎向我司授权的经销商咨询。

保修条例

- 自出厂之日起保修服务期为5年。
- 在保修服务期内出现产品质量问题雷特科技将给予免费修理或更换服务。

非保修条例:

属下列情况不在免费保修或更换服务范围之内:

- 已经超出保修服务期;
- 过高电压、超负载、操作不当等人为造成的损坏;
- 产品外形严重损坏或变形;
- 自然灾害以及人力不可抗拒原因造成的损坏;
- 产品保修标签和产品唯一条形码损坏;
- 无雷特科技签订的合同或发票凭证。

1. 修理或更换是雷特科技对客户的最唯一补救措施。雷特科技不承担任何附带引起的损害赔偿，除非在适用法律范围之内。
2. 雷特科技享有修正或调整本保修条款的权利，并以书面形式发布为准。