

# Xiaolei

## HAM-BLE Home Appliance Module



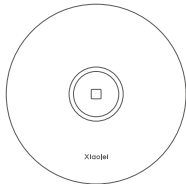
### Manual

[www.xiaolei.com.cn](http://www.xiaolei.com.cn)

## Product Introduction

Home appliance module converts Bluetooth 5.0 SIG Mesh signal to IR/ RF 433 signal. With it, you can control your any IR home appliances like air conditioner, TV, fan, etc. You can also control your RF devices like electric curtains, electric clothes aier, etc. The online database covering over 8000 home appliance brands is updated automatically and regularly, and enables module compatibility with more than 95% of infrared home appliances on the market. A wide variety of cloud scenes and automation can be achieved by connecting it to a gateway, suitable for different activities in your smart home.

## Package Contents



Home appliance module ×1



USB cable ×1



Manual ×1

## Technical Specs

Product name: Home Appliance Module

Product model: HAM-BLE

Input voltage: 5V===1A

Wireless protocol type: Bluetooth 5.0 SIG Mesh

Radio frequency (RF): 433MHz

Infrared frequency: 38KHz

Working temperature: -20°C~50°C

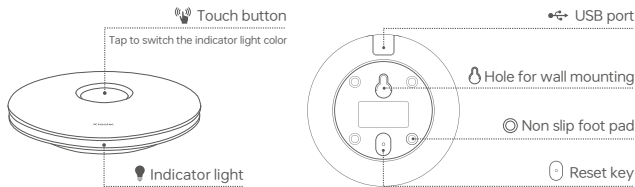
Dimensions(LxWxH): 109x109x25mm

Package size(LxWxH): 115x115x52mm

Net weight: 115g

Gross weight: 235g

## Product Overview

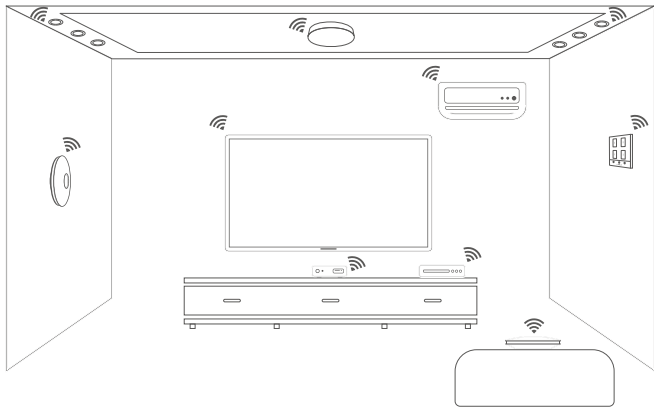


Indicator light (Customize its color in APP or tap the button to switch color)

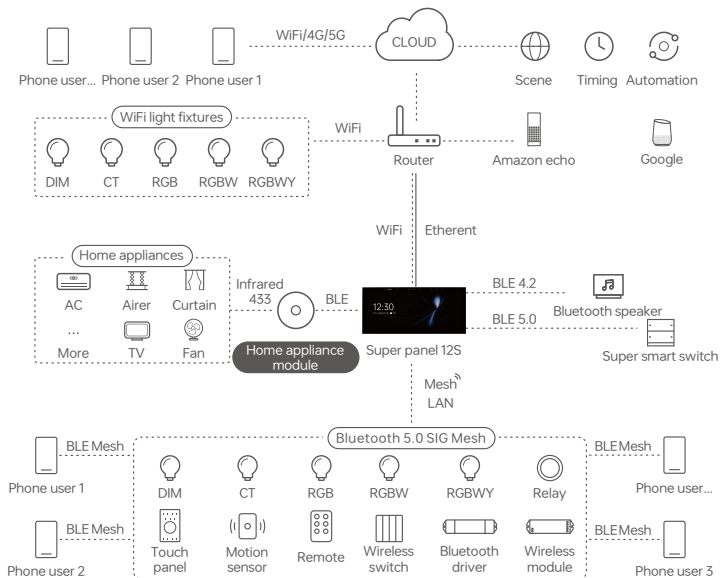
- Pairing via Bluetooth: Indicator light flashes yellow.
- Paired successfully via Bluetooth: Yellow indicator light stays on.

## Placement Suggestions

1. If you use the RF remote function, please install the module in a central location within the home so as to spread the RF signal all around your home.
2. If you use the infrared remote function, please install the module in spacious and open space, and avoid obstructions around the module (glass excepted). The infrared devices you control should be arranged in the same room, where the straight line distance between module and infrared devices required is within 13 meters to ensure great signal delivery.

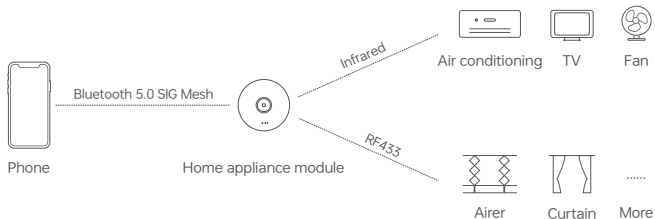


# System Diagram

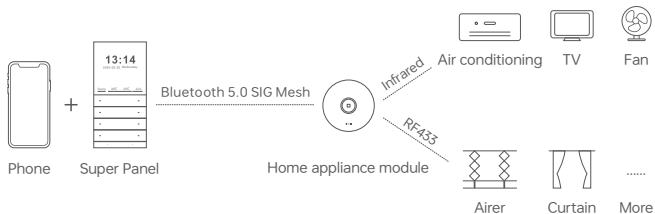


# Applications

Local control: Phone + Home appliance module → IR/RF 433 devices.



Remote control: Phone + Super Panel + Home appliance module → IR/RF 433 devices.



# App Operating Instructions

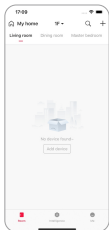
## 1. Register an account

Scan the QR code below with you mobile phone and follow the prompts to complete the App installation. Open the App to log in or register an account.



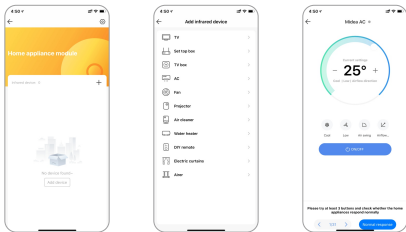
## 2. Network connection

Long press the “Reset key” on the module for 6s to put it ready to connect the network, and the indicator light flashes yellow at this time. Create a home if you are a new user. In the “Room” interface, click **【+】** icon in the upper right corner to access the **【Add device】** list and pick **【Home appliance module】** , then tap **【Search via Bluetooth】** . When the home appliance module is found, tap **【+】** icon to add it and modify the device information, then tap **【Save】** .



### 3. Control interface settings

In the "Room" interface and click **【Home appliance module】** to access the control interface. Click **【Add device】** to add infrared devices. Follow the prompts in APP to select your infrared home appliances according to the types and brands.

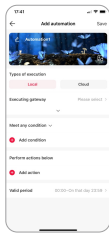
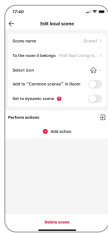
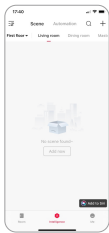


### 4. Remote control and automation

Please add a gateway first, such as Super Panel.

Scene: Switch to "Intelligence" interface and click **【+】** icon in the upper right corner to create a scene. Tap **【Add action】** to set up the action the device performs. After saving your setting, switch back to the **【Intelligence】** interface and click this scene to perform the action and achieve remote control.

Automation: Select "Automation" in the **【Smart】** page and click "+" to create automation. You can choose local/cloud execution mode, and set trigger conditions and execution actions. When the set trigger conditions are met, a series of device actions are automatically triggered to achieve remote linkage.



## Reset device (Reset it to factory defaults)

Method 1: In “Room” interface, click **【Home appliance module】** to access its control interface and tap **【🏠】** icon to go to settings, then tap **【Delete device】**. When the indicator light flashes yellow, it means the device has been removed from the network.  
Method 2: Long press the “Reset key” for 10s. When the indicator light flashes yellow, it means the device has been reset to factory defaults.

**Note:** What should I do if I always fail to search the device?

- ① Please make sure the device is powered on normally and is in the activated state;
- ② Please keep you mobile phone and device as close as possible. The recommended distance between them is no more than 15 meters;
- ③ Please make sure the device hasn't been added yet. If it has, please reset the device to factory defaults manually.

## Attentions

- Products shall be installed by qualified professionals.
- LTECH products are non-waterproof and not lightningproof (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 extend the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

## Warranty Agreement

- Warranty periods from the date of delivery: 2 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

### Warranty exclusions below:

- 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 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, and release in written form shall prevail.

\* 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.

# Xiaolei

## HAM-BLE 家电模块



### 产品说明书

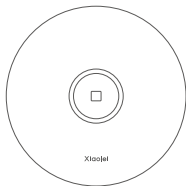
[www.xiaolei.cn](http://www.xiaolei.cn)

## 产品介绍

家电模块是一款蓝牙 5.0 SIG Mesh转红外、RF 433信号的智能控制器。

可控设备包括电动窗帘、电动晾衣架等射频类型家电，以及空调、电视机、电风扇等红外家电。拥有8000+在线红外码数据库，定期自动更新升级，兼容市面高达95%以上的红外家电设备控制。搭配网关类设备可实现丰富的云场景、自动化等控制方式，满足智能家居等不同应用场合。

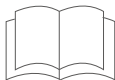
## 包装内容



家电模块 × 1



USB数据线 × 1



产品说明书 × 1

## 产品参数

产品名称： 家电模块

产品型号： HAM-BLE

输入电压： 5V = 1A

无线类型： Bluetooth 5.0 SIG Mesh

RF 频率： 433MHz

红外频率： 38 KHz

工作温度： -20°C~50°C

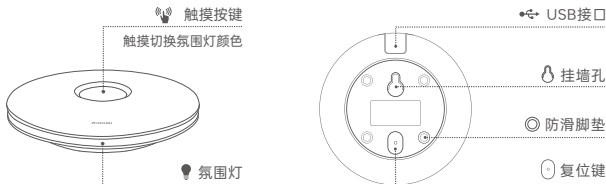
产品尺寸： 109×109×25mm

包装尺寸： 115×115×52mm

产品净重： 115g

产品毛重： 235g

## 产品示意



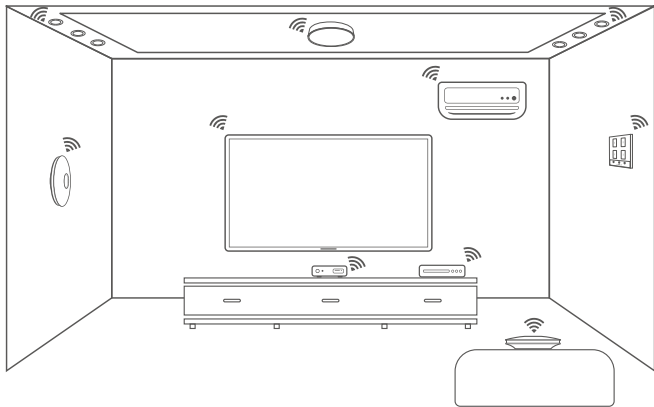
氛围灯 (灯光颜色可APP自定义或触摸切换)

· 蓝牙配对中： 黄灯闪烁

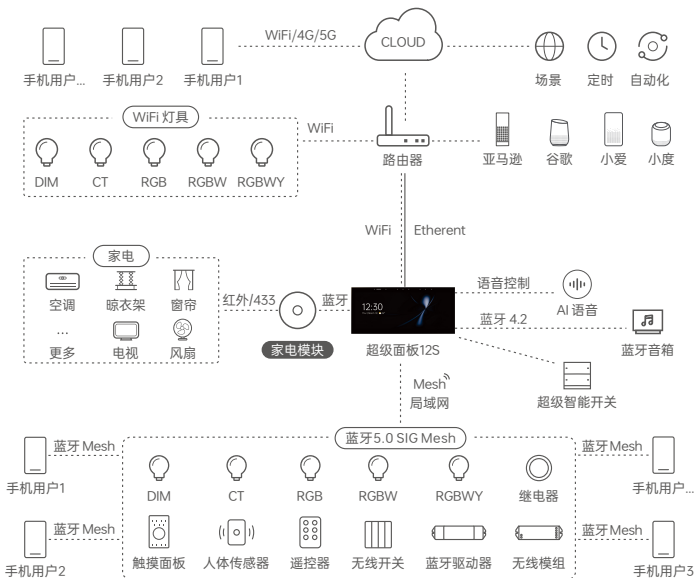
· 蓝牙配对成功： 黄灯常亮

## 摆放建议

1. 在使用射频遥控功能时，请尽量将本产品安装在家中的中心区域，以确保射频信号可以全面覆盖各个区域。
2. 在使用红外遥控功能时，请尽量将本产品安装在空间开阔的位置上，产品四周要避免存在遮挡物 (玻璃除外)，并与被控的红外家电处于同一房间内，两者直线距离保持在13米范围内以确保信号良好送达。

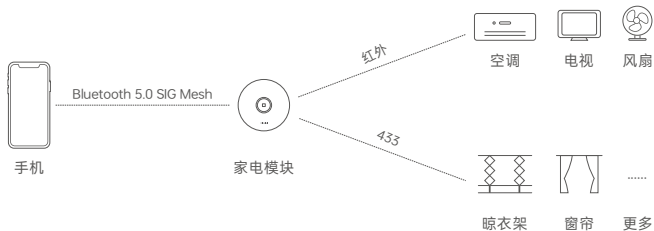


# 系统图

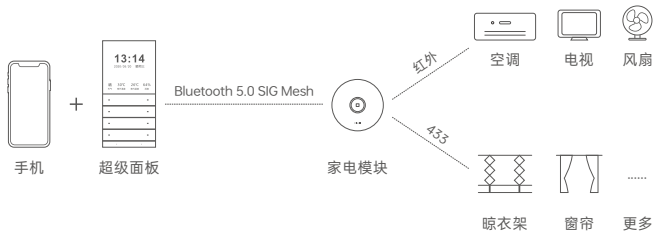


## 应用示意图

本地控制：手机 + 家电模块 → 红外、433。



远程控制：手机 + 超级面板 + 家电模块 → 红外、433。



# APP连接指引

## 1. 账号注册

通过手机扫描下方二维码，按提示完成APP安装后即可进行注册/登录操作。



## 2. 配网操作

2.1 长按家电模块“复位键”6秒触发入网，氛围灯黄灯闪烁即可。

2.2 新用户在手机APP上创建家庭后，在“房间”界面中点击右上角【+】进入添加。在添加设备列表中选择【家电模块】后点击【蓝牙搜索】，当搜索到家电模块时点击【+】添加设备修改设备信息后点击【保存】即可。



### 3. 控制界面设置

在“房间”界面中点击家电模块进入控制界面。点击【添加设备】添加红外设备，根据手机APP提示按照家电类型和品牌进行选择操作，即可开启智能生活控制。

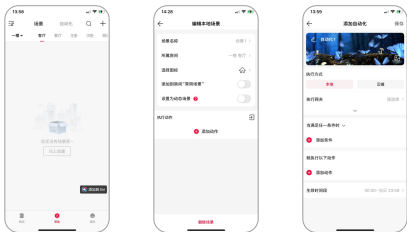


### 4. 远程控制 and 自动化

4.1 添加具备网关功能的设备，如：超级面板12S。

4.2 场景：切换到“智能”界面，点击右上角【+】创建场景，点击【添加动作】设置执行动作。保存成功后点击“智能”界面中设置的场景，即可执行成功，实现远程控制。

4.3 自动化：在【智能】界面中选择“自动化”，点击“+”创建自动化。可选择本地/云端执行方式，以及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。



## 重置设备 (恢复出厂设置)

方法一：在“房间”界面中点击家电模块进入控制界面，点击右上角【🔍】图标进入“设置”界面，点击【删除设备】，氛围灯黄灯闪烁，即表示设备已退网。

方法二：长按复位键10秒，氛围灯黄灯闪烁，即表示设备已恢复到出厂状态。

注：设备一直搜索不到怎么办？

- ① 确保设备正常通电，并且处于配对状态；
- ② 确保手机与设备两者尽量靠近，建议不超过15米；
- ③ 确保设备未被添加过，如被添加过，请手动恢复出厂。

## 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；
- 避免安装在雷区、强磁场和高压区域；
- 请检查使用的工作电压是否符合产品的参数要求；
- 如果发生故障，请勿私自维修；如果有疑问，请联系供应商。

## 保修条例

- 自出厂之日起保修服务期为2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。

\* 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