Siera

PRO 5200IP Smart Home Gateway

Product Specification

I. Description

PRO 5200IP Smart Home Gateway is the key device of smart home control system.

With the combination of internet technology, zigbee bi-directional RF communication technology and RS485 bus communication, the Smart Home Gateway provides the smart solutions including the comprehensive controls of security and household appliances, and then builds a safe, comfortable and convenient home environment for the users. By using PRO 5200IP Smart Home Gateway, the user not only can control the household appliances by the mobile phones or laptops, but also can set different scenarios to switch and control the scenarios by one key. In addition, the logic control function of the system allows the user to set up various logics in order to achieve the logic control under the designated time and condition. When the users go out, they still can use mobile phones or laptops to view and control the household appliances such as the lights, the curtains and the air conditioners. The users will enjoy the fantastic feeling "Home is a company all the time".

II. Features

1. Local and long-distance control on the equipments;

2. Function of the scenarios linkage;

3. Timing linkage;

4. Security system linkage;

5. Fingerprint unlocking linkage;

6. Password unlocking linkage;

7. Authorization functions of temporary password;

8. Push notification for the messages of unlocking and alarm;

9. Weather show;

10. Display of indoor and outdoor temperatures;

11. Gateway panel's control on the scenarios

III. Key Parameters

1. Operating Voltage：5V（USB）or 12V bus

2. Quiescent Current：170mA（5V） or 110mA（12V）

3. Operating Temperature：-10℃～+55℃

4. Operating Humidity：10%～90%RH（no condensing）

5. Infrared Approach：60cm

6. Infrared Remote Control：45°, it is 9m from the center.

7. Product Dimensions：86x86x39mm

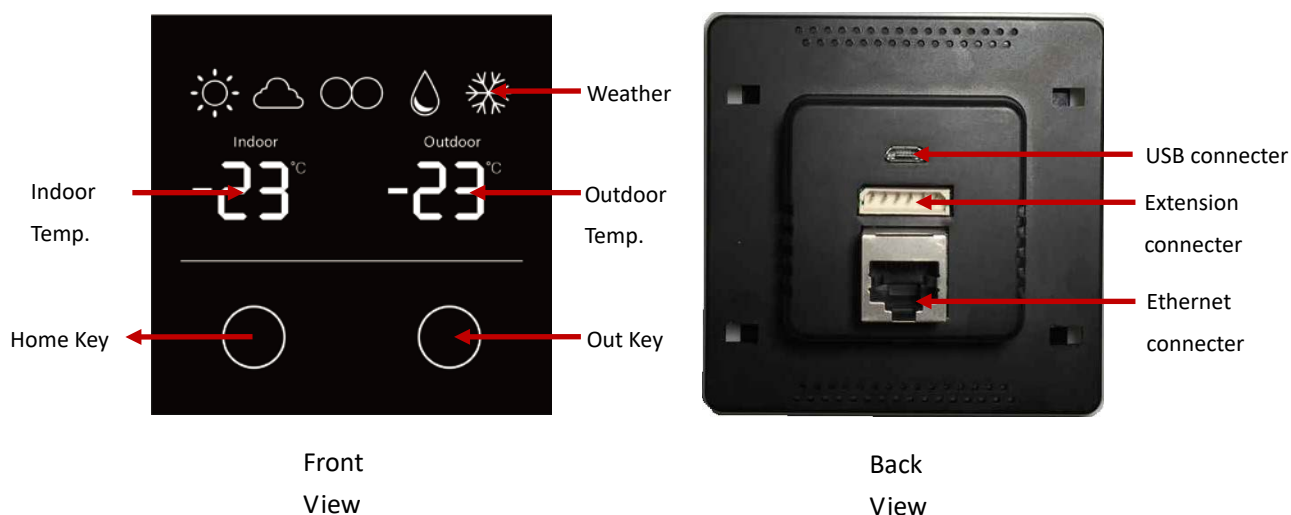8. Installation：table installation or wall-mounted installation

IV. Type Explanation

Product：Smart Gateway

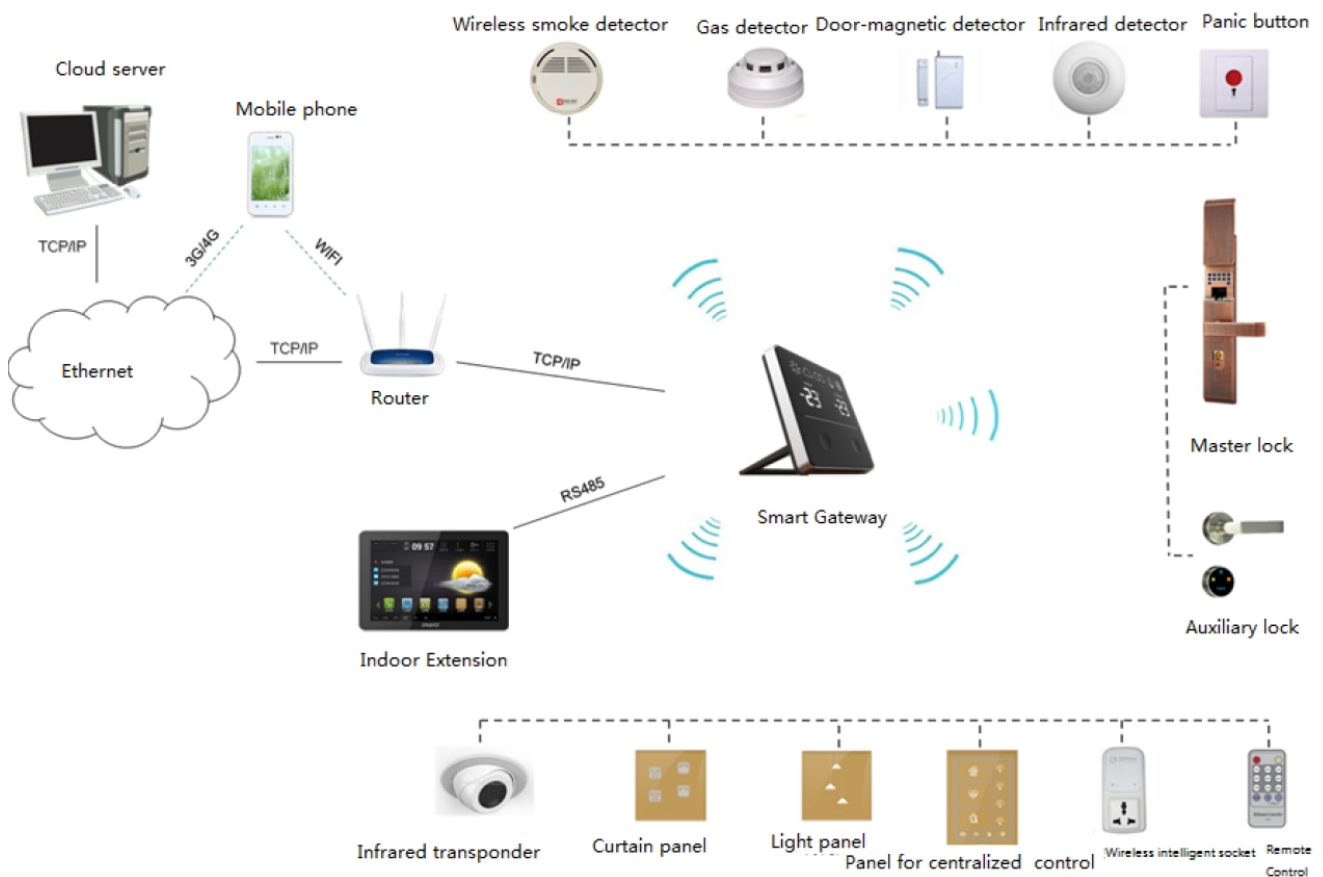System：ZigBee

V. Appearance and Structure

1. Appearance

Front View

Back View

2. Connecter Introduction

（1）USB Connecter: It is used for the power supply of the device；

（2）Extension Connecter：The lines from left to right are +12V, GND,485+,

485-,IR-,IR+；Among the lines, IR- and IR+ are the expansion ports of infrared emission; 485+ and 485- are the connectors of RS485, which can be connected with the indoor extension. If the device is wall-mounted, the power can be supplied through +12V and GND；

（3）Ethernet connecter：It connects with the network cable and is used for the long-distance control and the update of the weather information and outdoor temperatures.

VI. System Diagram

System Diagram

VII. Function Description

1. Local control on equipments

（1）Use the mobile App and indoor extension to control the equipments locally, including the light, curtain, central air conditioner, intelligent socket, infrared equipments (infrared air conditioner and TV), master lock, auxiliary lock, air

make-up system, floor heating system and background music;

（2）Use the mobile App and indoor extension to view the status of equipments locally, including the light, curtain, central air conditioner, intelligent socket, master lock, auxiliary lock, air make-up system, floor heating system, background music, water quality monitor and air quality detector.

2. Long-distance control on equipments

(1) Use the mobile App to control the equipments remotely, including the light, curtain, central air conditioner, intelligent socket, infrared equipments (infrared air conditioner and TV), air make-up system, floor heating system and background music;

(2)

Use the mobile App to view the status of equipments, including the light, curtain, central air conditioner, intelligent socket, master lock, auxiliary lock, air make-up system, floor heating system, background music, water quality monitor and air quality detector.

3. Function of the scenarios linkage

（1）Use the mobile App to add the custom scenario linkage;

（2）The scenario linkage can only be connected with the household equipments;

Remark: The household equipments cover the light, curtain, central air conditioner, intelligent socket, infrared equipments (infrared air conditioner and TV), air make-up system, floor heating system and background music.

4. Timing linkage

（1）Use the mobile App to add the custom timing linkage;

（2）Circulation modes of timing linkage are single cycle and customerization(free combination for Monday to Sunday) ;

（3）The timing linkage can be connected with the scenario and the household equipments;

（4）Every timing linkage can be switched on or off separately.

5. Security system linkage

（1）Use the mobile App to start or remove the security system;

（2）Can start or remove the security system of separate alarm zone, or can add or

remove the security system of all the alarm zones by one key;

（3）The gas detector and water sensor are the 24-hour alarm zones, which means that these two parts are in the status of security at any time and the security cannot be removed;

（4）The alarm linkage can be set alone for any alarm zone;

（5）The alarm linkage can be connected with the scenario and the household equipments;

（6）When the alarm zone in the status of security is triggered, the alarm linkage will be conducted and the alarm message will be passed to the cloud server. When the security system is removed from the alarm zone, there will be no reaction after it is triggered.

6. **Fingerprint unlocking linkage**

（1）Each fingerprint of the lock devices can be set separately as multiple password linkages. Every password linkage has a time period. Through configuration, the same fingerprint can open the lock in different time periods and different linkage functions can be performed;

（2）The fingerprint unlocking linkage can be connected with the scenarios, household equipments and lock devices.

7. **Password unlocking linkage**

(1) Each password of the lock devices can be set separately as multiple password linkages. Every password linkage has a time period. Through configuration, the same password can open the lock in different time periods and different linkage functions can be performed;

(2) The password unlocking linkage can be connected with the scenarios, household equipments and lock devices.

8. **Authorization functions of temporary password**

（1）Use the mobile App to authorize the temporary password locally or remotely;

（2）After the temporary password is generated, it will be valid for 5 minutes by default. The password will become void automatically after it is expired;

（3）The temporary password can only be used once during the valid time. It will

become void automatically after the first use.

9. **Push notification for the messages**

（1）Push notification for the unlocking messages

The messages include: fingerprint unlocking, password unlocking, key unlocking, wrong fingerprint, wrong password, low battery of the lock, break-in (prevent the door from removal), long open of the door, intimidation alarm and the locking.

Remark: At present, the key unlocking and the long open of the door are the reserved functions. The long open of the door cannot be detected by the lock device.

The wrong fingerprint and wrong password are defined as below:

- Wrong fingerprint: For the same door lock device, only when the wrong fingerprint is continuously entered for 5 times in one minute, can the message of wrong fingerprint be pushed.

- Wrong password: For the same door lock device, only when the wrong password is continuously entered for 5 times in one minute, can the message of wrong password be pushed.

（2）Push notification for the alarm message

The alarm messages include the security alarm and low battery of security devices;

10. **Offline binding**

（1）The network construction can work without the configuration tools;

（2）The equipment binding can work without the configuration tools;

11. **Weather show**

（1）Get the weather conditions of the current city through the internet;

（2）Update the weather condition hourly to achieve the real-time weather synchronization.

12. **Display of indoor and outdoor temperatures**

（1）The outdoor temperature can be obtained through the internet in real time;

（2）The indoor temperature can be detected by the built-in temperature monitoring device.

13. **Gateway panel's control on the scenarios**

（1）The short press on the "home" key in the gateway panel can active the home
      scenario immediately;

（2）The short press on the "out" key in the gateway panel can active the out scenario
      immediately.

VIII. Operating Instructions

1. Register an account for the mobile App

When using the mobile App software for the first time, the account should be
registered first. The registration steps are as follows:

（1）Start the mobile App software, enter the login interface, press
【Register】 to enter the registration page, and input the name, mobile phone
number, password and e-mail address of the user in turn;

（2）Click the icon ⬒ in the right side of UDID input box and scan the QR code on
      the smart gateway. The position of QR code label is shown as below;

Remark: Please refer to the product specification of mobile App for the detailed
registration steps of the account.

（3）Click 【Verification Code】to obtain the code, and then click 【Register】button
      to finish the registration.

2. Add the equipments in the mobile App

（1）Add the lighting equipments

Step 1. Enter 【Equipment Management】 page of the mobile App, enter 【Household Equipment】 to choose the equipment to add, click the【+】at the top right corner, enter 【New Equipment】 page, select the equipment type as "lighting" and choose if it is dimming, click 【Next Step】;Enter the equipment name and click 【Next Step】 ,select the equipment icon, click 【Start Binding】. The cycle flash display of the gateway's indicator light for 0.5-second on and 0.5-second off shows the successful status of matching code.

Remark: If there is no area in the 【Equipment Management】 page of the mobile App，the area should be added manually first. Please refer to the product specification of mobile App for the specific operation.

Figure 1

Step 2. Remove the tempered glasses from the light panel, and then press the "RST" and "SET" keys on the main board at the same time, and release the "RST" and "SET" keys successively. If all the lights flash for 5 times, it means the successful network join, as shown in Figure 1.

Remark: If the equipment has joined the network, Step 2 can be skipped.

Step 3. Click 【Start Binding】 button in the App interface and operate the corresponding touch sensitive buttons required for the binding in the light panel. The quick flashes of indicator light for 3 times shows the successful code match.

Step 4. Click 【Test On】 and 【Test Off】bottoms on the App interface to verify the result of matching code, and click【Finish Binding】 to exit.

(2) Other equipments are added in the same methods as above.

3. Add the equipment on the digital extension

（1）Add the light equipment

Step 1. Select "Smart" in the digital extension and select "Zigbee Setup" after long pressing the area circled in red for 3 seconds and entering the interface (as shown in the figure 2 and 3)
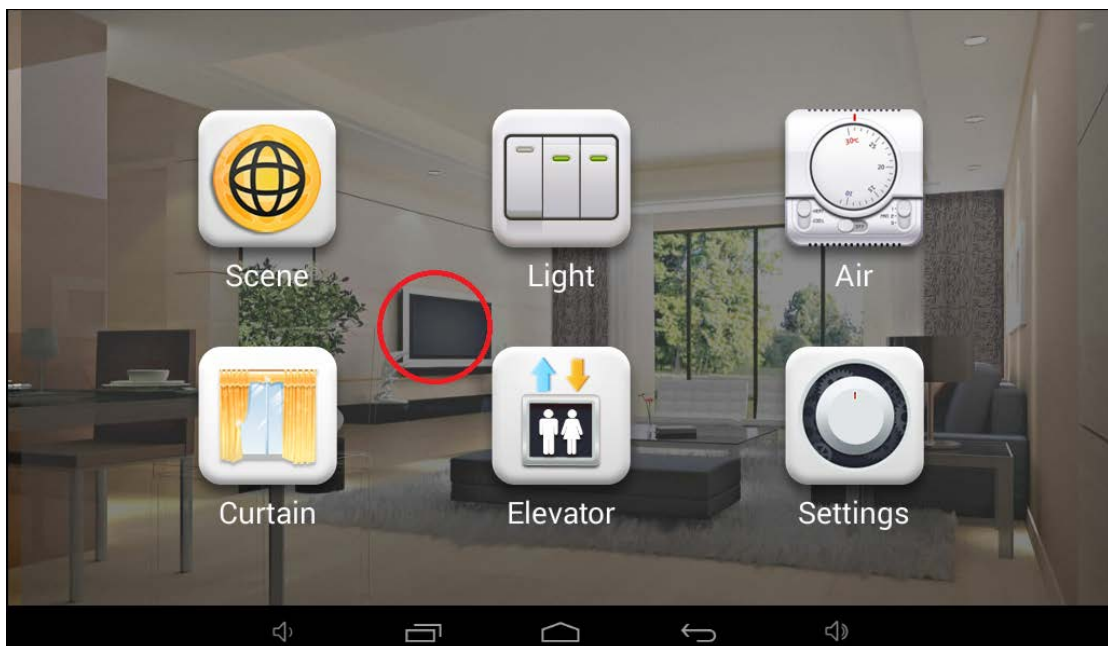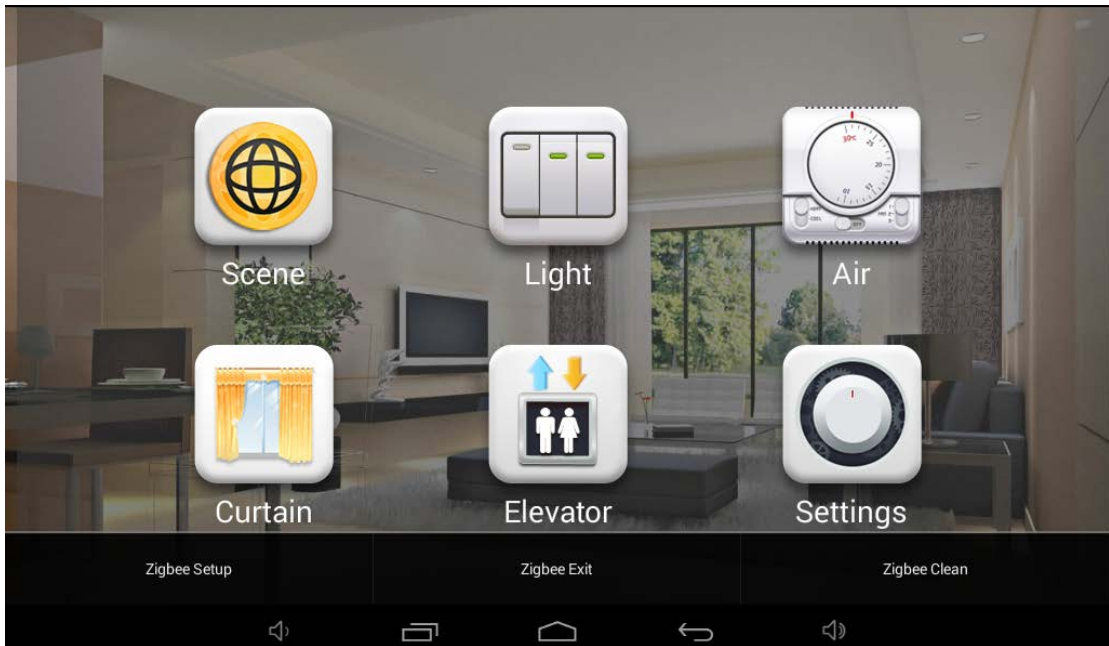

Figure 2

Figure 3

Step 2. Remove the tempered glasses from the light panel, and then press the "RST" and "SET" keys on the main board at the same time, and release the "RST" and "SET" keys successively. If all the lights flash for 5 times, it means the successful network join, as shown in Figure 2.

Remark: If the equipment has joined the network, Step 2 can be skipped.

Step 3. Enter the light control interface of the digital extension and click the light icons which require code match as shown in Figure 4, and operate the corresponding touch sensitive buttons required for the binding in the light panel. The quick flashes of indicator light for 3 times shows the successful code match;

Figure 4

Step 4. Repeat Step 2~3 to matching the codes of other equipments;

Step 5. After finishing the code matches of all the equipment, enter the "Smart" interface , long press the area circled in red for 3 seconds, select 【Zigbee Exit】in the pop-up dialogs . When the smart gateway's indicator light is off, it indicates the exit status of matching code;

（2）Adding other equipments are in the same operations as above.

4. **Display of Weather and Temperature**

Using the Ethernet interface to access the internet and make sure that the network can work normally. The smart home gateway will get the information on the outdoor temperature and current weather automatically through the internet and keep the outdoor temperature and current weather updated hourly.

5. **Control on the home and out scenarios**

Click the left touch sensitive button in the smart gateway panel, the home scenario will be triggered at once, while click the right touch sensitive button in the panel, the out scenario will be triggered at once.

Remark: The performance of the home and out scenarios can be configured through the mobile App. Also, the gateway buttons can be configured through the mobile App to

IX. Status Description of Indicator Light

Indicator Light	Color	Instructions	Remark
System Indicator Light	White	1. Flash for 3 times when the system is powered on; 2. During the state of matching code, it shows the cycle flash display for 0.5-second on and 0.5-second off; 3. When the code match is successful, it will quickly flash for 3 times; 4. Long press on the button for 3 seconds, and then the light will quickly flash for 3 times; 5. Short press on the button, and then the light will quickly flash for 1 time.	