

Qingdao Magene Intelligence Technology Co., Ltd.

User Manual



Wireless Button

Model : P0114276R

SW200-B-R

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user' s authority to operate the equipment.

FCC Statement: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential

installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The device has been evaluated to meet general RF exposure requirement, The device can be used in portable exposure condition without restriction. Federal Communication Commission (FCC) Radiation Exposure Statement Power is so low that no RF exposure calculation is needed.

Product Introduction

SW200 supports both BLE and 2.4G protocols. It works with other wireless device to offer corresponding function such as eBike display, eBike electronic derailleur.

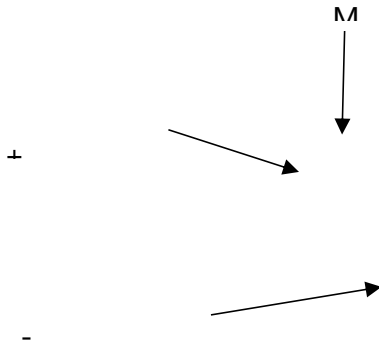
Indicator Introduction



Indicator	Device status
Green indicator blinks 5 times	Search and connect to other device through BLE
Red indicator blink 1 time	Search and connect to other device through 2.4G

Button Introduction





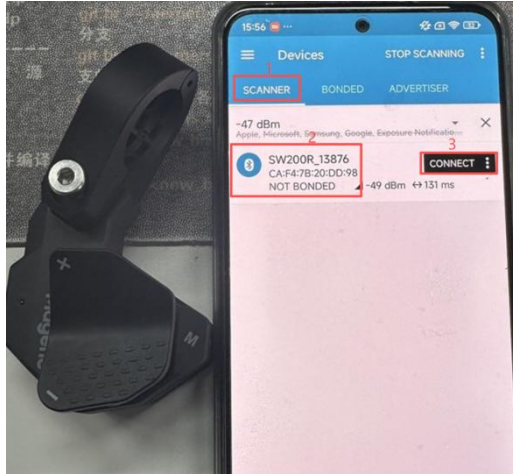
One button single press, one button long press, two buttons long press

Function

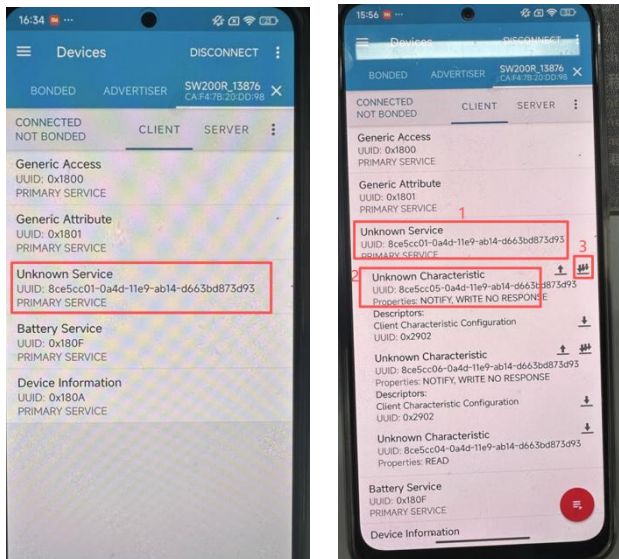
1. The wireless button is in sleep mode, when press any button, the button will be awake, if red indicator blink 1 time, it searches and connects to other device through 2.4G, if green indicator blinks 5 times, it searches and connects to other device through BLE
2. Once wireless button connects with other device, the indicator doesn' t blink anymore even press any button
3. To reduce power consumption, the wireless button will automatically enter sleep mode in 3 minutes of inactivity
4. Long press "-" and "M", wireless button can enter switch mode which you can switch 2.4G communication and BLE communication through APP "nRF Connect"

① SW200 is under BLE and switch to 2.4G

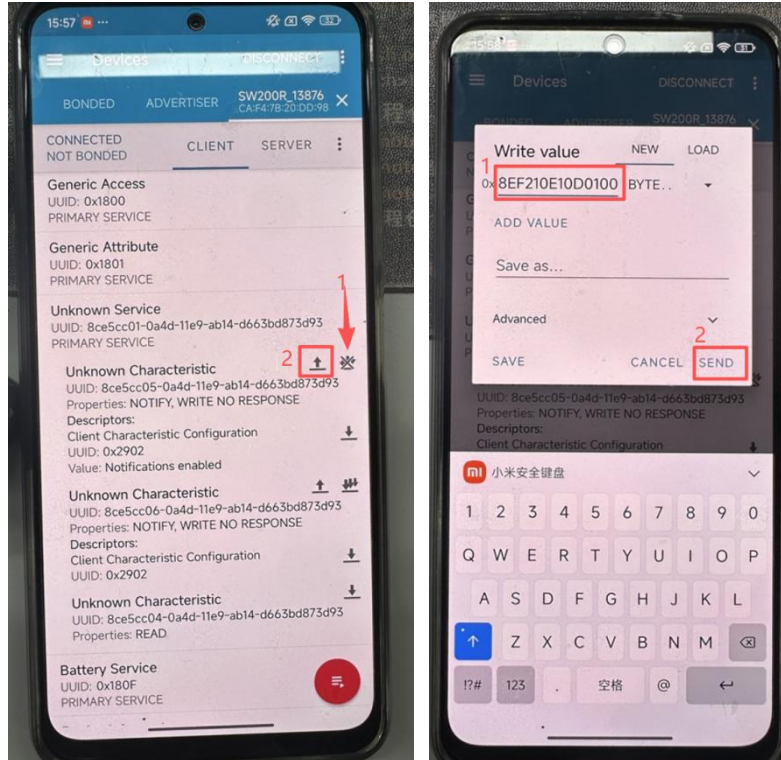
- Open APP "nRF Connect", put phone and SW200 together, find the device with "SW200" character on APP, click "CONNECT"



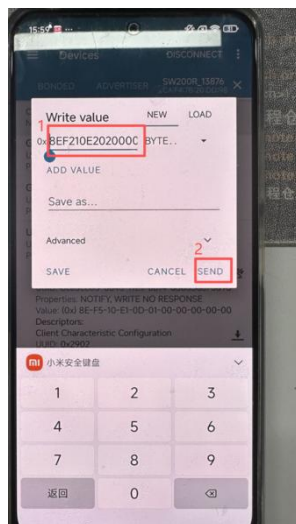
- Find "CLIENT" - "Unknown Service" - "8ce5cc01-0a4d-11e9-ab14-d663bd873d93" , click to get inside. Find "Unknown Characteristic" - "8ce5cc05-0a4d-11e9-ab14-d663bd873d93" , click right side three arrows, then you can send message to SW200 and receive message from SW200



- After confirming three arrows icon switch to following icon, then you can send message to SW200 and receive message from SW200, click the icon just left besides three arrows icon and input "8EF210E10D010000000000", then click "SEND"



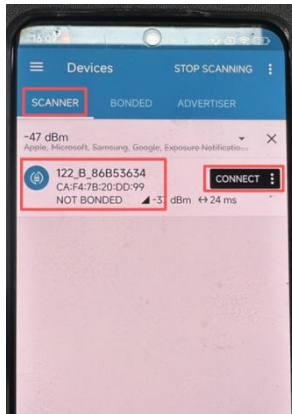
- Click the icon just left besides three arrows icon again and input "8EF210E20200000020000" (Different from up one), then click "SEND"



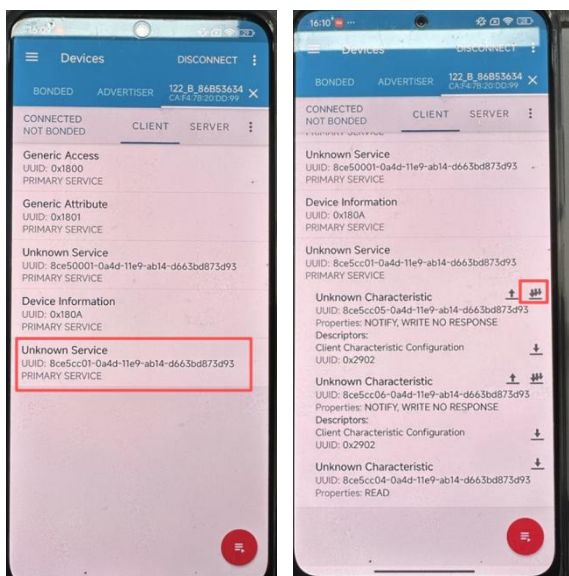
- Click "M" button on SW200 to check the light status, it's successfully switched from BLE to 2.4G if the light "Green - 300ms on 300ms off, last 1 minute" , otherwise repeat above operations

② SW200 is under 2.4G and switch to BLE

- Long press “-” 10s on SW200 until the light “Red - 100ms on 100ms off, continuous” , release button
- Open APP “nRF Connect” , put phone and SW200 together, find the device with “122_B” character on APP, click “CONNECT”



- Find “CLIENT” - “Unknown Service” - “8ce5cc01-0a4d-11e9-ab14-d663bd873d93” , click to get inside. Find “Unknown Characteristic” - “8ce5cc05-0a4d-11e9-ab14-d663bd873d93” , click right side three arrows, then you can send message to SW200 and receive message from SW200

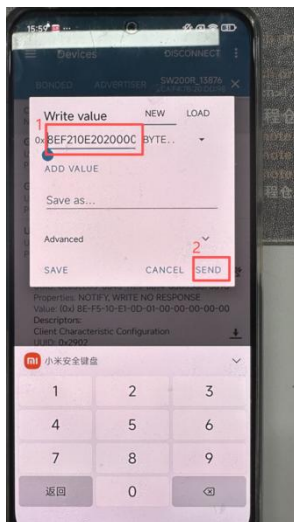


- After confirming three arrows icon switch to following icon, then you can

send message to SW200 and receive message from SW200, click the icon just left besides three arrows icon and input "8EF210E10D000000000000", then click "SEND"

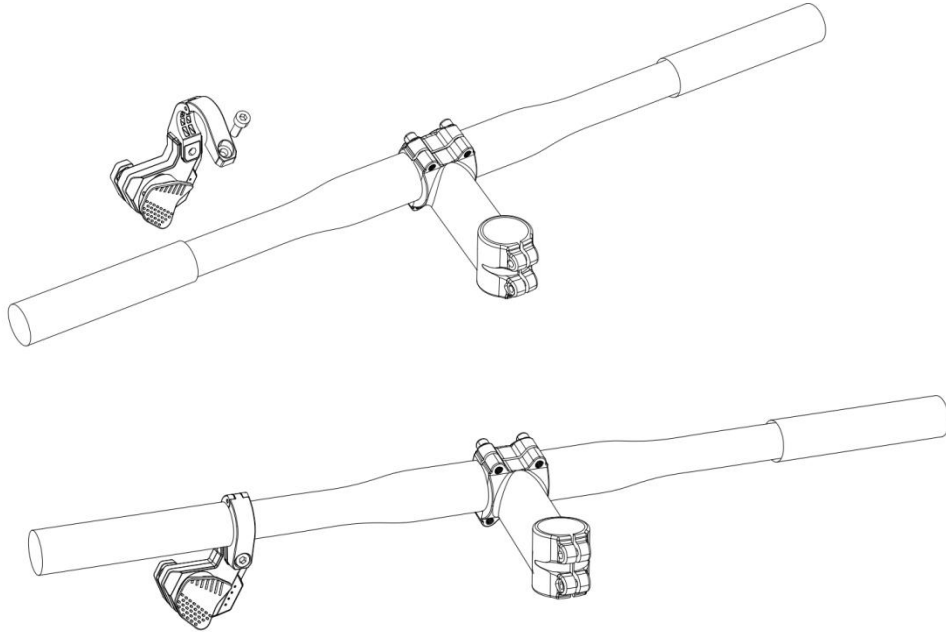


- Click the icon just left besides three arrows icon again and input "8EF210E20200000020000" (Different from up one), then click "SEND"



- Click "M" button on SW200 to check the light status, it's successfully switched from 2.4G to BLE if the light "Green - 500ms on 500ms off, last 5s", otherwise repeat above operations

Installation



Battery Replacement

