



# MANUAL



## WIRELESS BLUETOOTH CONVERTER SKBLE-1927

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# 1. Overview and features

Compact wireless battery operated BLE converter enables you to control from any Smartphone / tablets via Bluetooth and converts into 433Mhz RF to control Home Automation System.

Simple App set up to manage up to 8 rooms, with 8 individual devices per room, create 8 events, sharing configurations to unlimited Smartphone and control unlimited Skybridge converter within one app.

## **Main features;**

- Free standing on table
- BLE 5.0 & 433MHz
- 1.5V (AAA) alkaline battery \*2
- Red LED indicator
- Control individual device via App. (On/Off)
- 8 Individual room control – 8 devices
- 8 Event Control
- Easy one button sync configuration to cloud. (Export & Import setting)
- Ability to rename each Skybridge device, room name, receiver device and event name.

## **Why via app?**

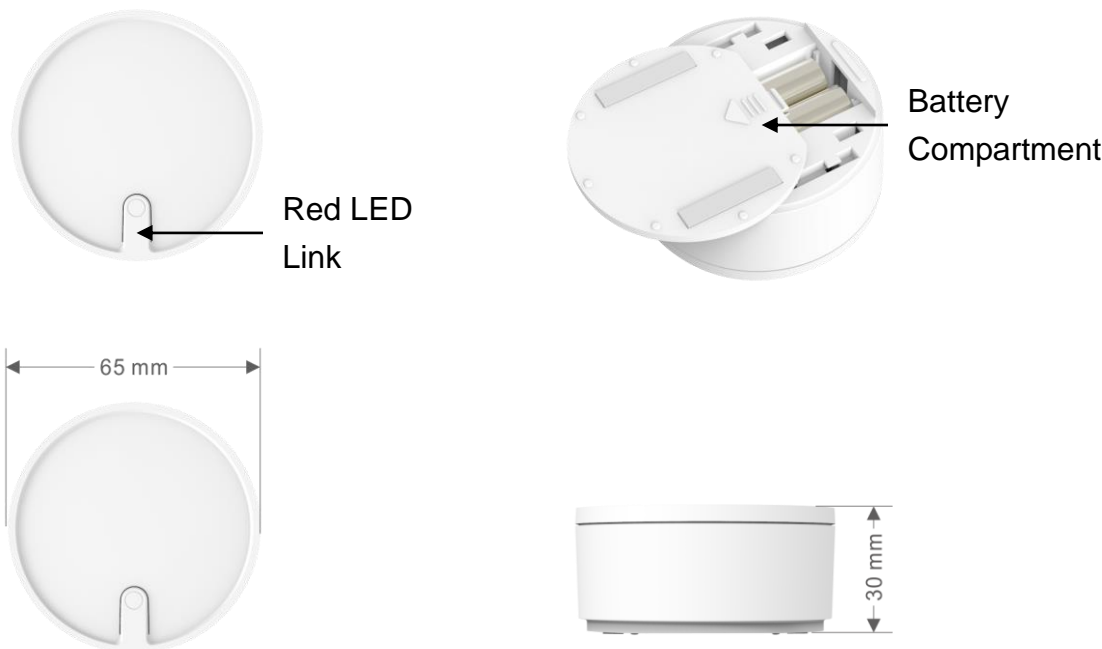
1. User friendly interface and easy to set up.
2. Manage or change timer setting anytime.
3. Control multiple timer Skybridge converter with one app.

## **Cloud Support?**

Yes, user data settings will be backed up onto Amazon Web Service (AWS) free of charge.

## 2. Diagrams

Notes for the diagrams:



### 3. Application Control

App Name: Sky Bridge



Free app download.

Available in Apple App Store or Google Play.

No registration needed.

No annual fees.

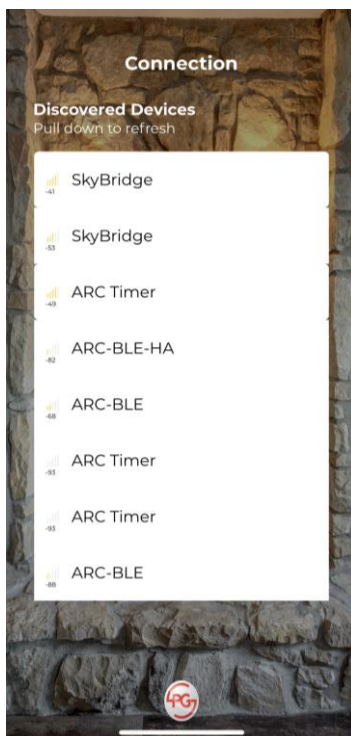
#### App Control

##### **Bluetooth**

- Please ensure Bluetooth is enabled from your Smartphone setting.
- Only one Smartphone can control one Skybridge converter at one time.

#### Launch App

1. Allow Bluetooth to connect to and control devices.
2. Press “Scan” to search for surrounding Skybridge device and select the smallest -DB number. (the smaller the decibel number the closer the Skybridge device is)



In this example, select -41DB “SkyBridge”

3. First time connect, the app needs to link with the Skybridge device.  
During linking process, the red LED on Skybridge device will flash until you press the “Link” button or within the 13 seconds limitation.



Linking process will exit and resume to the list of Skybridge device page after 13 seconds limitation count down

#### Confirmation

Press the button on the front of BLE to confirm pairing



Once linking process is complete, the app will direct you to the “Device” page, this is when you start pairing all the receiver devices that you wish to individually control or use them in creating timers.

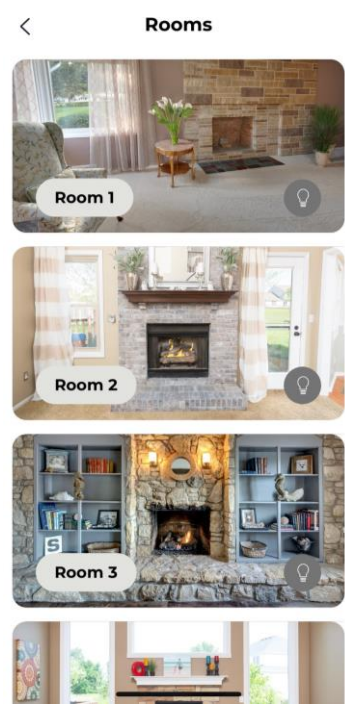


**Pairing / Unpairing Receiver Device**

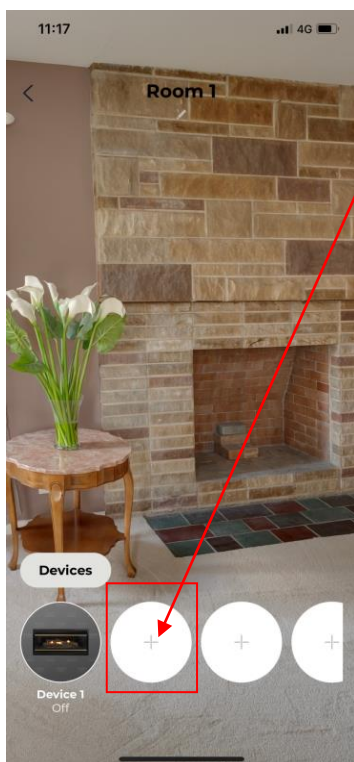
**Pairing**

Select 'Lighting' to start pairing device.

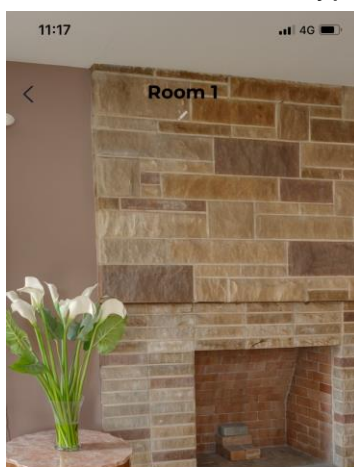
- 1. Select a room.



2. Press the + button to pair device.



3. Select the device type. (Fireplace, Space Heater, Lamp)



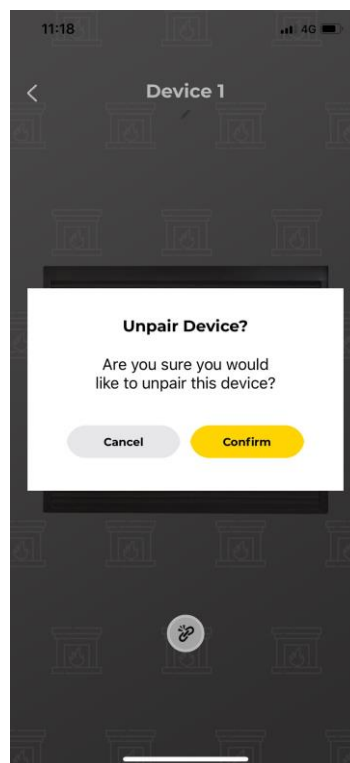
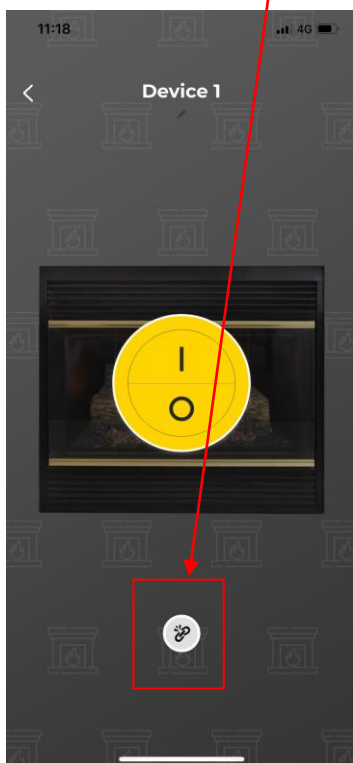
4. Enter 'pairing mode' on receiver device and press the "Confirm" button to confirm pairing.

5. Once paired, receiver device will appear in the list.



### Unpairing

1. Select the device that you wish to unpair.
2. Press the 'unpair' button and press 'confirm'.





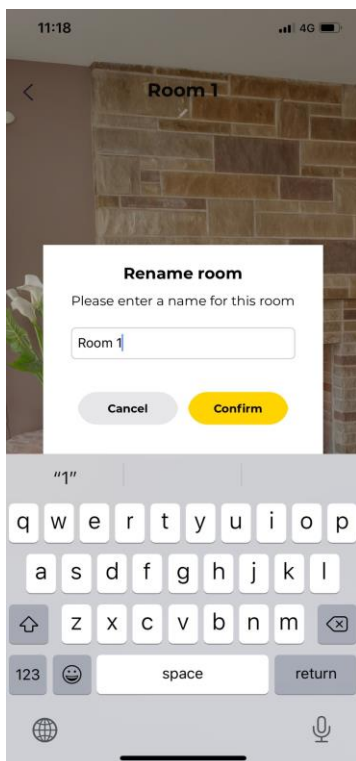
## **Control Receiver Device**

1. To control individual device, select the device and press I to turn ON or O to turn OFF.



2. Rename Room or Device.

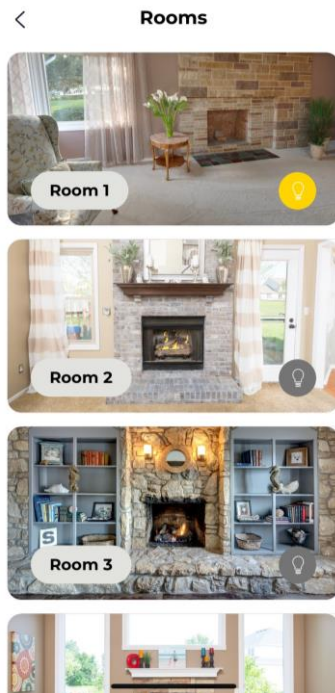
By pressing the 'pen' mark you can rename all rooms and devices.



3. You may control all the device in that room as 'All On – All Off' by pressing the light bulb icon.

Yellow stands for All On.

Grey stands for All Off.

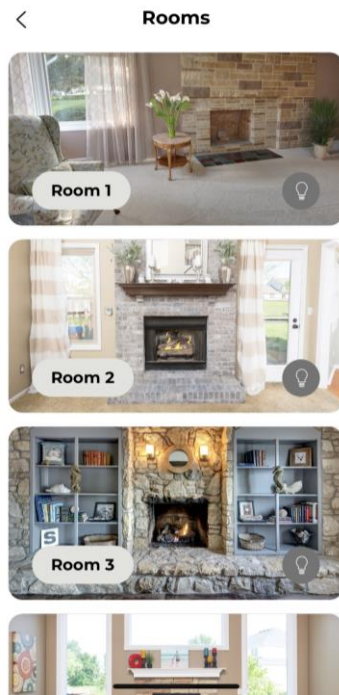


## **Event Setup**

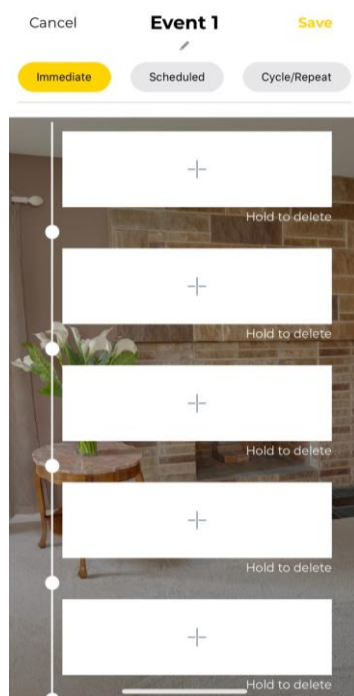
In this page, you can create up to 8 timers.

Each event can store up to 7 devices with All Off built-in slot at the end.

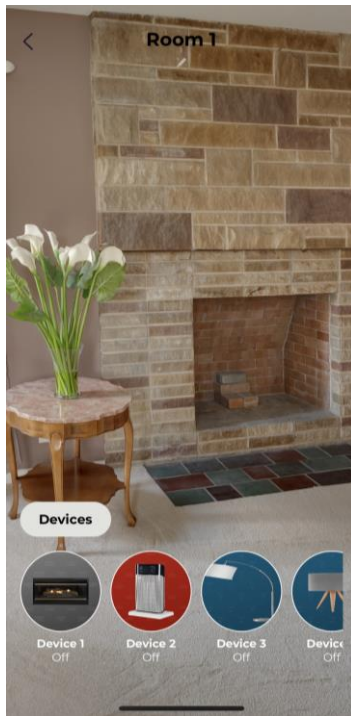
1. Select an event slot to create an event.



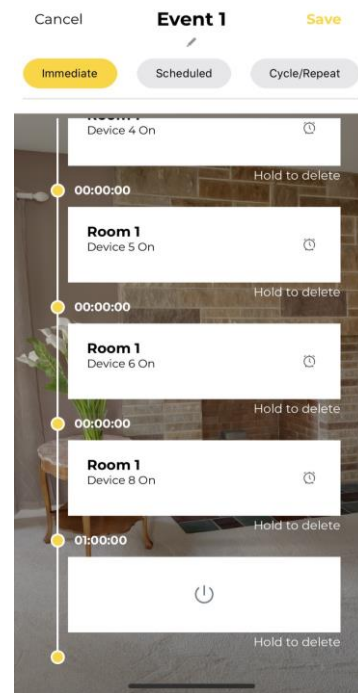
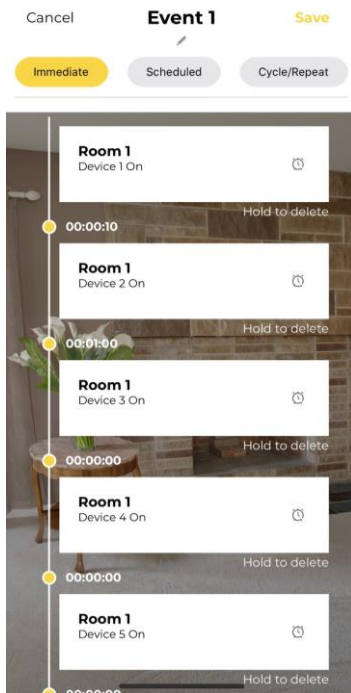
2. Press the + button to add device.



3. From the device list, select the device you wish the event to include.



4. After device are added, the very last slot is the default 'ALL OFF' command.



5. Each device can set timer interval delays.

6. Once done, select from the 3-event action.

Immediate – single timer. (once only event)

Scheduled – single timer, set the start day & time.

Cycle - repeat timer, set day(s) & start time.

*(For your information, the app is written this way. Once user presses “SAVE” button, it only sends the setting command packet to Skybridge device. Then if user presses the activate / deactivate button (the ► play button) the app then send the command to start or stop the event. So this means user can save settings and choose when to activate/deactivate events at the desired time)*

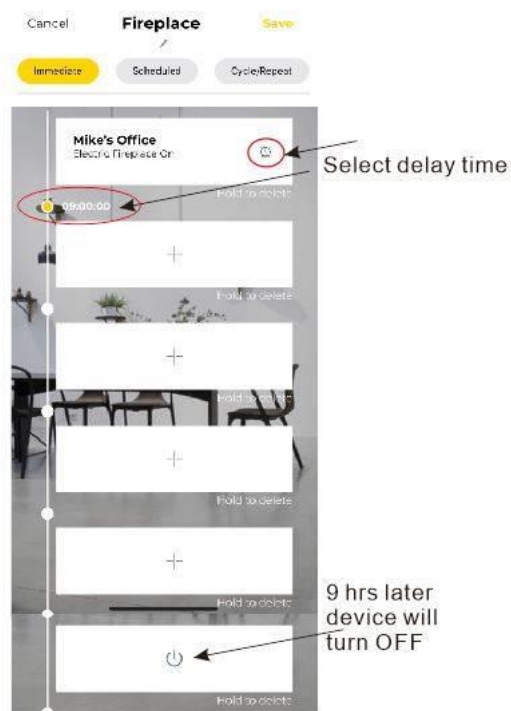
Example Setting:

Immediate Event 8am ~ 5pm

**Current time 8am.**

1. Select electric fireplace ON.
2. Set the delay for **9hrs**.
3. Electric fireplace will turn OFF at 5pm.

(you see that the last slot is the default ALL OFF command so that means after the delay time all devices will turn OFF)



Software command flow chart for better understanding on the logic structure.

1. Default ALL OFF icon:

As you can see there is an ALL OFF icon at the very last slot of each event and this is to avoid devices not turning OFF as it should at the completion of each event.

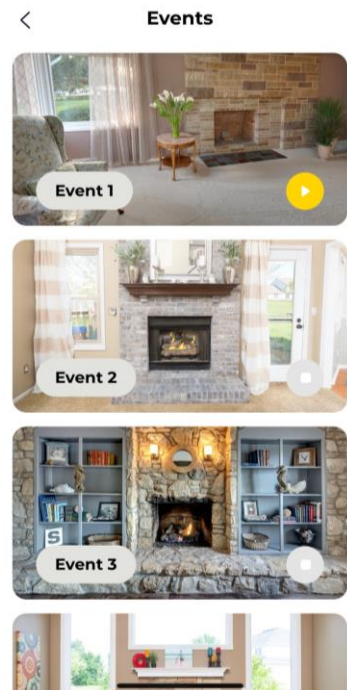
The very last “clock” icon is for the user to set the delay off time for up to 23hrs

59min, which means that the event can actually overlap to the next day if needed.

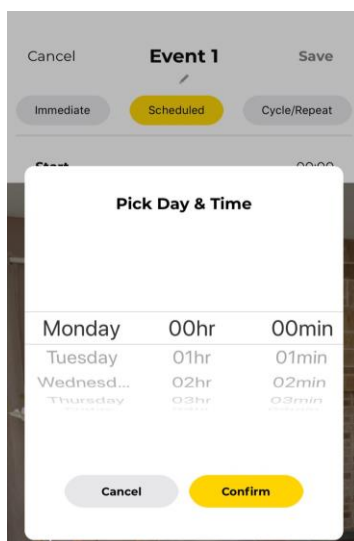
In addition, this will actually save one event slot been used.

## 2. Difference between the 3 types of event (Immediate / Scheduled / Repeat)

**Immediate Event** → when user press the ► play button (turn to yellow) the activate command will be sent and devices will turn ON or OFF (depending on your setting). Note that the delay timer will count from the last device.



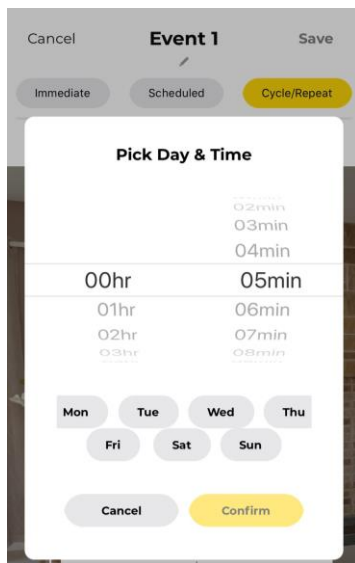
**Scheduled Event** → this is an onetime day based event. (so once the user presses the ► play button then the event will only happen once)



For example:

- If current time Tuesday 9am, then the user must set the event timer to be activated after Tue 9am. (i.e. Tuesday 9:01am ~ 9:05am etc..)
- If user sets the time at Tuesday 8:45am~8:55am then activated the event, immediately the device will turn ON then OFF straight away as the software thinks the time has gone past but still needs to execute the command. \*\*  
*The reason for device to turn ON and OFF immediately is to let the user know that the time they've set have gone past which means the following Tuesday will not execute since it is an onetime event only. (If the ON then OFF device status is not shown then the user may think that the following Tuesday the event will be executed but in real life it won't).*
- If user sets the time at Monday 8:45am then the event will be executed the following Monday.
- If user sets the time at Tuesday 9:01am then the event will be executed on the same day at 9:01am.

Repeat Event → this is an ongoing event and will not stop until user presses the ►play button to deactivate the event.

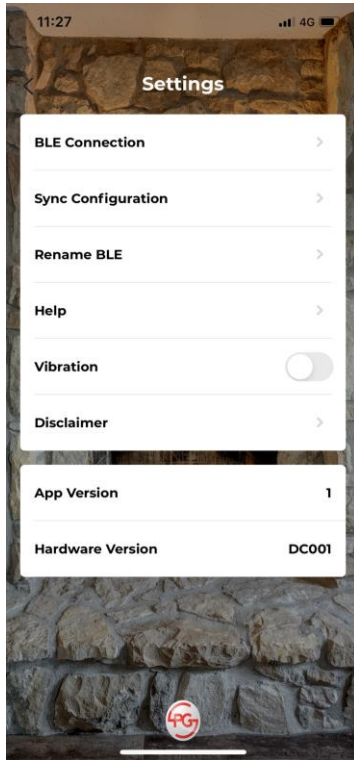


- The setting logic is exactly same as to scheduled event however the difference is the user can select the days of the week to execute the events.



## **Setting**

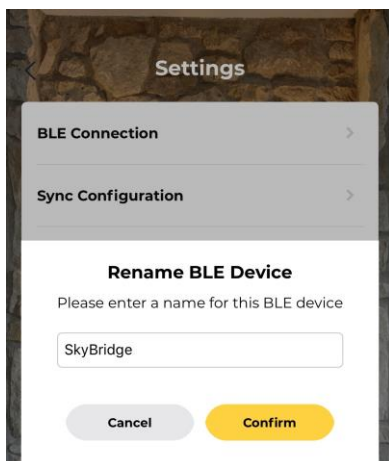
In the setting page, you can switch between 2 or more Skybridge devices, rename Skybridge device or synchronize configuration to AWS cloud service, turn On/Off Vibration from device control.



1. Switch in between Skybridge device.

If you have another Skybridge device, you may switch within the one app and control the 2<sup>nd</sup> Skybridge device.

2. Rename Skybridge device.

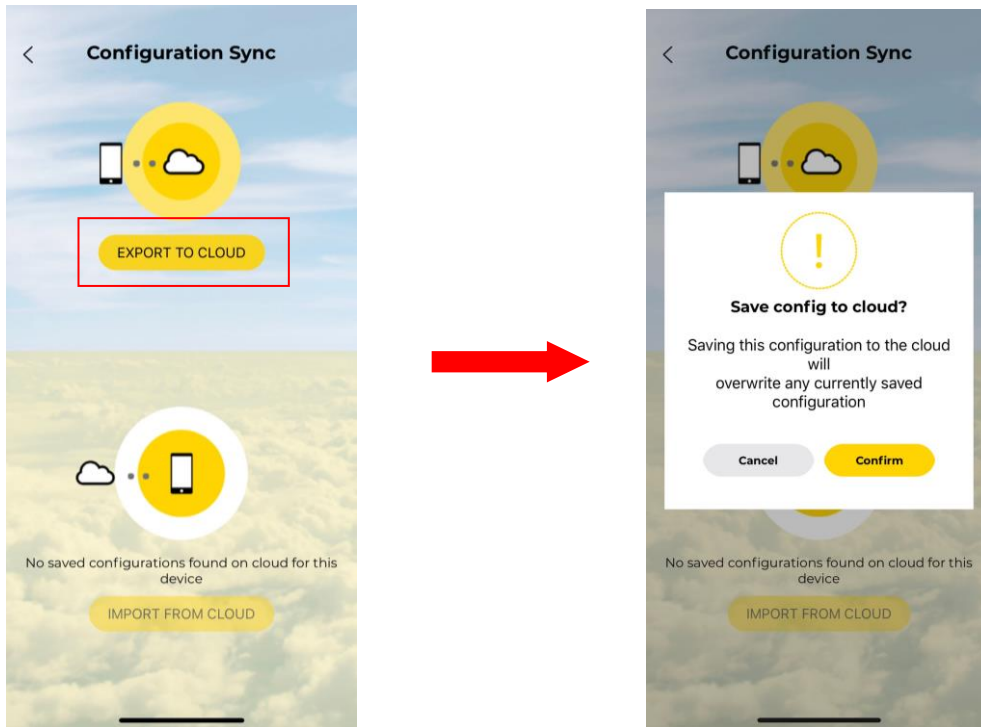




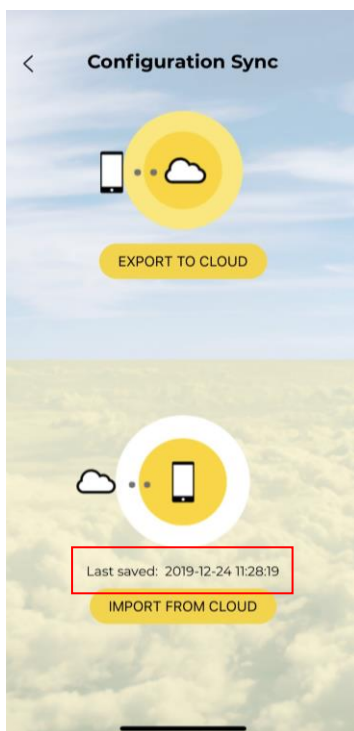
### 3. Synchronize configuration onto AWS.

You can share your settings to another smartphone by exporting data to AWS, and the 2<sup>nd</sup> smartphone imports the data from AWS.

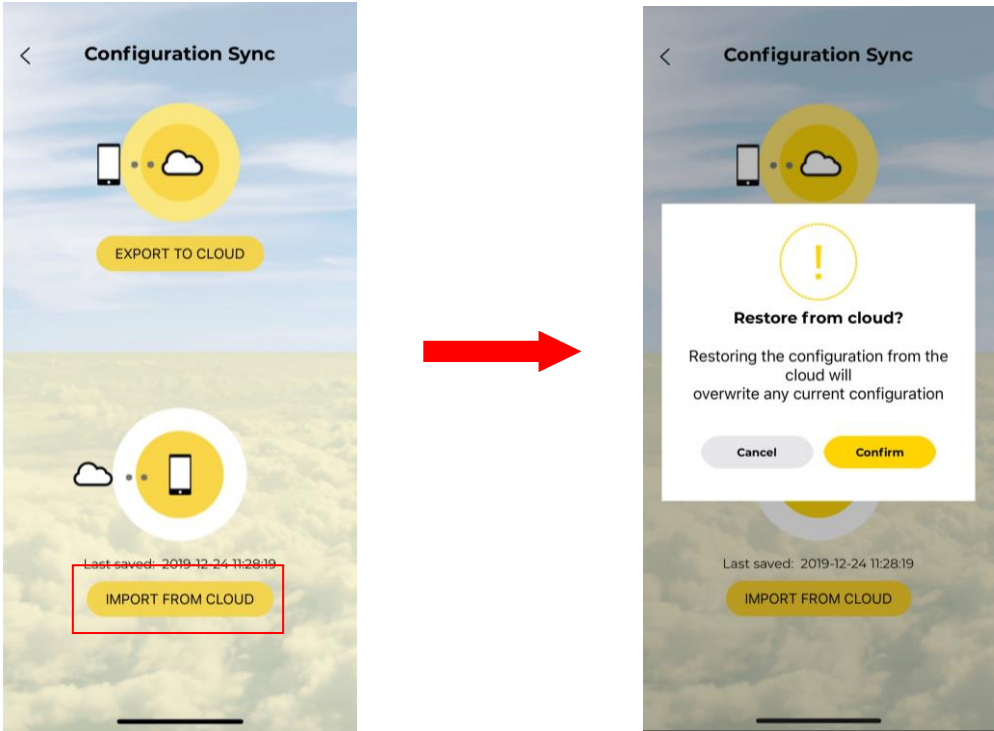
Export configuration press the 'EXPORT TO CLOUD' button to upload data.



Once saved, the last setting date and time will be displayed at the bottom of the app.



Import configuration, press the 'IMPORT FROM CLOUD' button to download data onto 2<sup>nd</sup> Smartphone.



## 4. Specifications

Input Rating:

DC 3V (1.5V AAA alkaline battery \* 2)

Radio Frequency:

433.92MHz, 2.4GHz

Environment Temperature:

1-40 °C

CE Certification:

The CE marked affixed to this product confirms its compliance with the European Directives which apply to the product and in particular its compliance with the harmonized standards and specifications.



Dimension (L x W x H)

65 x 30mm

Weight:

40 g

## 5. Warning

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.

Note: 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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.

This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or conjunction with any other antenna or transmitter.

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

L'appareil a été évalué pour répondre aux exigences générales d'exposition RF. le dispositif de a été évalué à répondre général rf exposition exigence.