

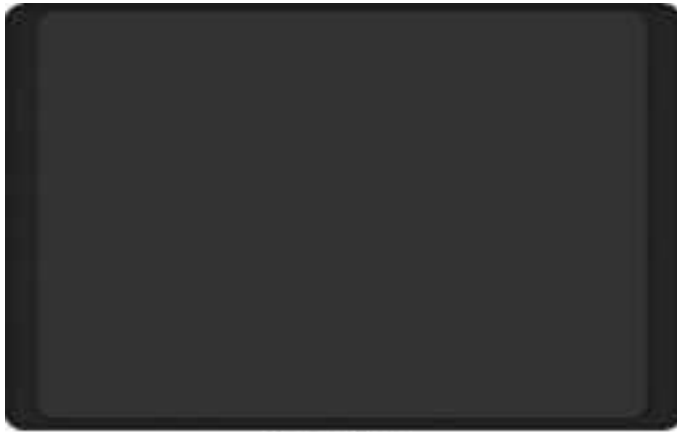
Introduction

The document is a guide for iBS06. To quickly verify it, please download INGICS iBS01 Tag Utility APP from below link(Android only):

<https://play.google.com/store/apps/details?id=com.ingics.tag.igstagconfig>



Overview



Top view



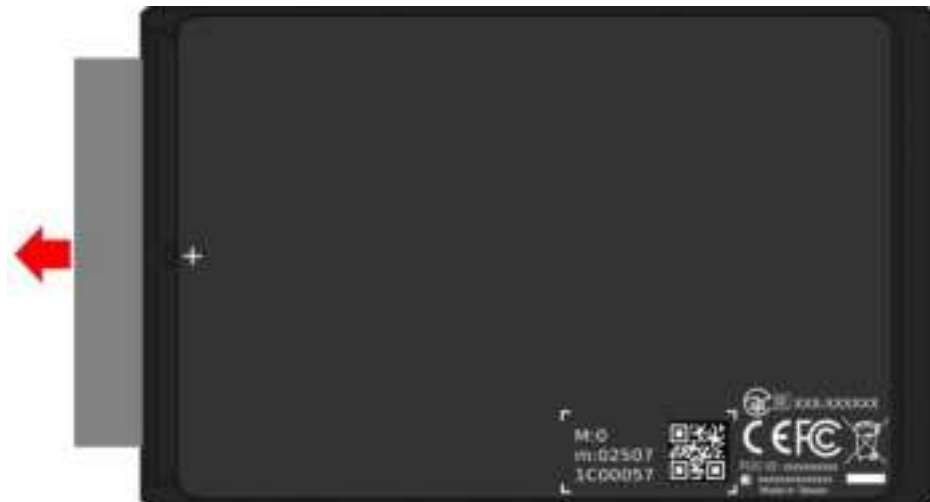
Bottom view

Operation

Basically, iBS06 will always transmit BLE payload in the configured time interval(by default is 5s) after power on. The transmitted BLE payload/message is then received and uploaded to the internet/cloud server by the beacon gateway, such as iGS01S or iGS03W/M/E..

Power on

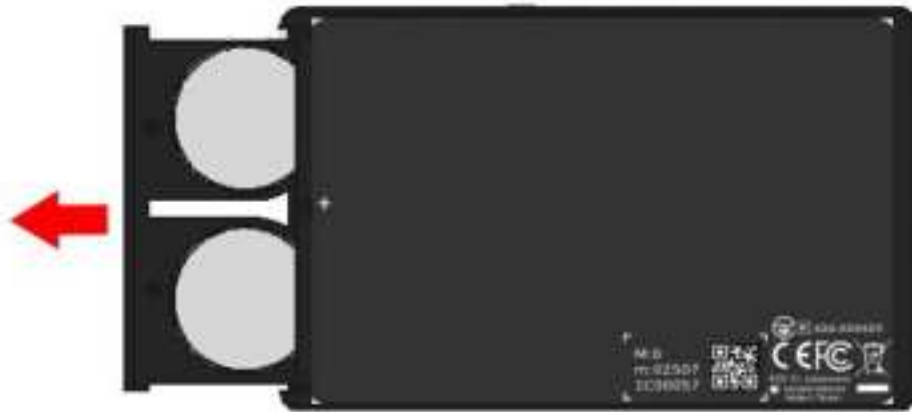
Two CR2012 batteries are pre-installed in each iBS06 beacon at shipment. Please remove the isolation plastic sheet to power on it. You will see the LED flash when powered on. At power on, the user can configure it within 20 seconds.



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Power off

Just pull out the battery slot to power off iBS06.



LED

Description	LED behavior
Power on (Start of Configuration mode)	Red "blinking"
End of Configuration mode	Green "blinking"
Beacon connected for configuration	Green "ON"

Verifying

1. Power on iBS06
2. Open iBS01 Tag Utility APP and Press "START SCAN".
3. Wait for a while, you should see the BLE payload of iBS06 received by the APP.

Below is an explanation of the payload shown in the APP.

The screenshot shows the 'iBS01 Tag Util' app interface. The 'IBS01 BEACON SCAN' section is active. A beacon for 'IBS06' is detected with an RSSI of -57 dBm and a battery voltage of 2.82V. The event is 00. The last seen time is Fri Mar 18 13:51:46 GMT+08:00 2022. The beacon ID is 83BC1A0100AAAAFFFF000040130000.

Received RSSI
Battery Voltage

The screenshot shows the 'iBS01 Tag Util' app interface. The 'IBS01 BEACON SCAN' section is active. A beacon for 'IBS06i' is detected with an RSSI of -56 dBm and a battery voltage of 2.86V. The event is 00. The last seen time is Fri Mar 18 13:47:17 GMT+08:00 2022. The beacon ID is 83BC1ED100AAAAFFFF000036050000. The Major is 0 and the Minor is 44697. The Meas Tx is 42.

Received RSSI
Battery Voltage
Major Minor

Battery

Level

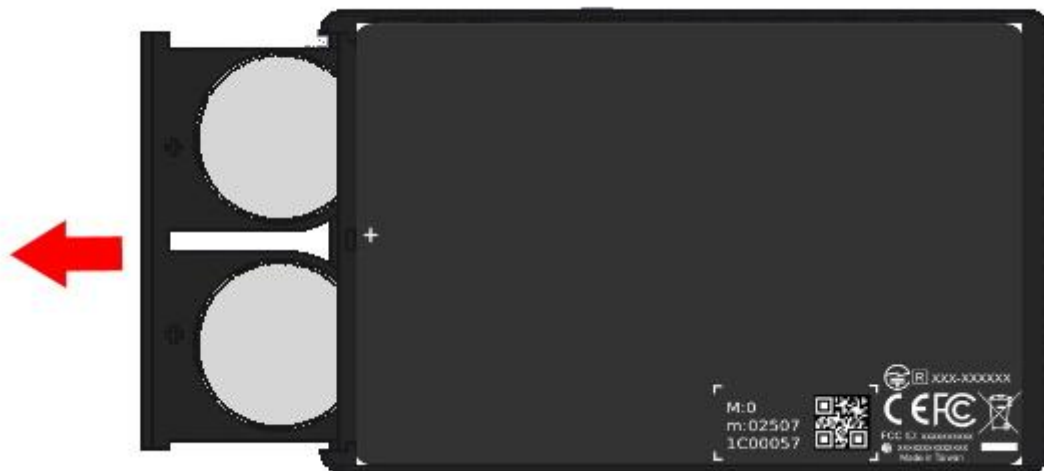
iBS06 uses two pieces of CR2012 coin battery as the power source. It consumes only a little power and keeps working for a long time. Below is a suggestion for translating the battery voltage to the remaining capacity at room temperature.

Capacity	Voltage
High	>2.9V
Middle	>2.7V
Low	>2.6V
Change battery	<=2.6V

Remember, a proper filtering on the voltage is necessary.

Change the battery

1. Pull out the battery slot



2. Change the new batteries.

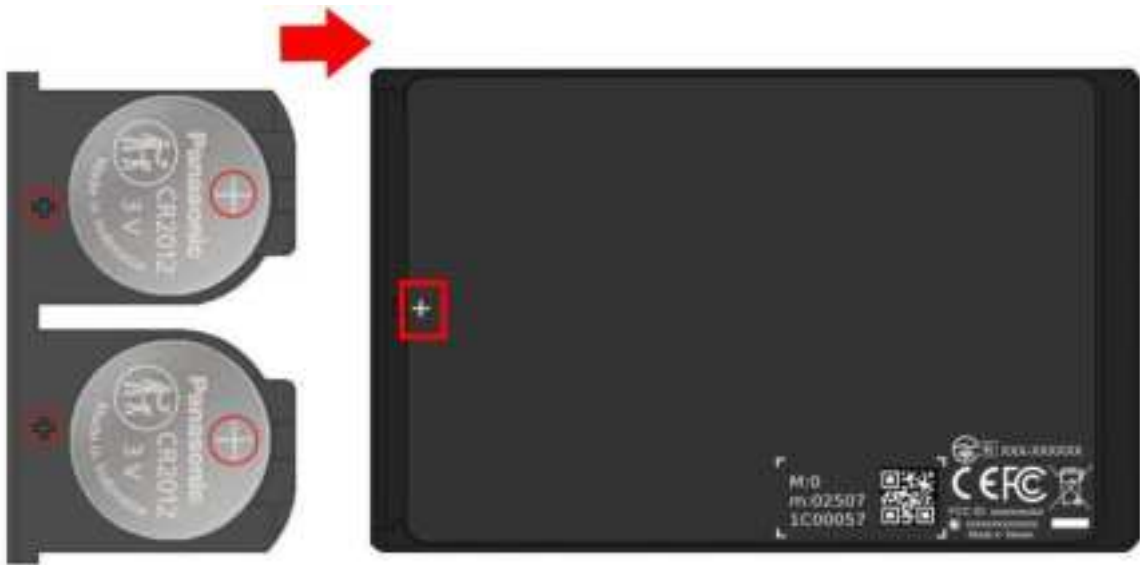
***PLEASE MAKE SURE THE POLARITY IS CORRECT.**



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3. Plug the battery slot into iBS06.

***PLEASE MAKE SURE THE POLARITY IS CORRECT..**



Configuration

When powered on, iBS06 will be in configuration mode for 20 sec. Users can use iBS01 Tag Utility to scan and connect iBS06 to configure the transmit power and ADV(advertising) interval.

Steps

1. Power on iBS06 (if iBS06 is already powered on, please power off it first then power on again)	2. Press the CONFIG icon on the up-right corner of the utility within 20 secs . Select iBS06 for configuration.	3. In the SETTING page, you can configure TX power and ADV interval. After configuring, press SAVE and DISCONNECT for the parameters to take effect.

Parameters

In iBS06, there are two parameters that can be configured.

- TX power: +4 dBm ~ -20dBm.
- ADV Interval: From 100 ms~60 min.

NFC(MIFARE) location



Waste Electrical and Electronic Equipment Recycling

Our product is compliant with the WEEE directive for re-use/recovery/recycling. This cross-out wheeled-bin symbol is a reminder that this product should not be treated as household waste. Instead hand it over to the appropriate collection point for the recycling of electrical and electronic equipment in accordance with local environmental regulations for waste disposal.

Since our product is not sold directly to the end user and generally it is a part of our customer's solution, our customer is recognized as a professional seller. Our customer has the responsibility to comply with the requirement of the directive too. To help our customers, when necessary, we will provide a WEEE compliant assessment report for registering and communicating with the local authorities and recycling agency.



Statement

Federal Communication Commission Interference Statement

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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 0.5 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The antennas used for this transmitter must be installed to provide a separation distance of at least 0.5 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

NCC 警語

「取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」

Revision History

DATE	REVISION	CHANGES
Mar 18, 2022	0a	Initial release
Jun 7, 2022	0b	Add Statement section

