IBeacon Datasheet

Model：BLM5200

SuZhou Beelinker Technology Inc

MODEL NO/DESCRIPTION

Product Name	iBeacon
Product Model	BLM5200
Version	1.0
Release Date	2019.10

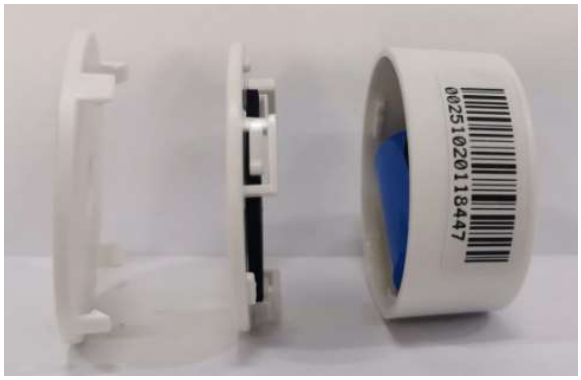
Website： www.beelinker.com Address：No. 399, Linquan Street, SIP, Suzhou, Jiangsu TEL:0512-62997201-8831

LIST

1. Product Description

With more than 10 years in-house design and practice experience in the iBeacon market, we bring the latest Bluetooth 4.2 technology, patented power saving solutions and Texas Instrument CC2640 chip into our latest product. To meet the security sensitive scenarios, it features the data security access in bi-direction communication and encryption by the random seed. It pass the Apple iBeacon standards. For the outlet, the housing is a rotating cylinder and made of ABS. By using a snapped bracket, It’ s very flexible to replace the battery and can be used in varies of environment.

Product Outlet



Product Architecture

2. Production Features

★ Ultra-low power consuming, 5 years without recharge (0db, 500ms interval)

★ Rotating cylinder housing, snapped bracket, flexible to change the battery

★ Proven solution and widely used in the market

3. Application Scenario

Widely used in the Wechat Ecosystem. Applicable for the advertisement popup and coupon release. Portable Guide Machine in the Tourist spots and museum. SMS popup and interaction based on the Position of Interest. Navigation in the building and smart patrol check.

4. Characteristics

Model	BLM5200
Water & Dust Protection	IP53
Housing Materials	PC
Outlet Color	White
Dimension	Φ50.30×24.95mm
Weight	42g(With Battery)
Battery	ER14250H*2 (Li)
Operating Voltage	DC3.6V
Installation	Glue or Screw

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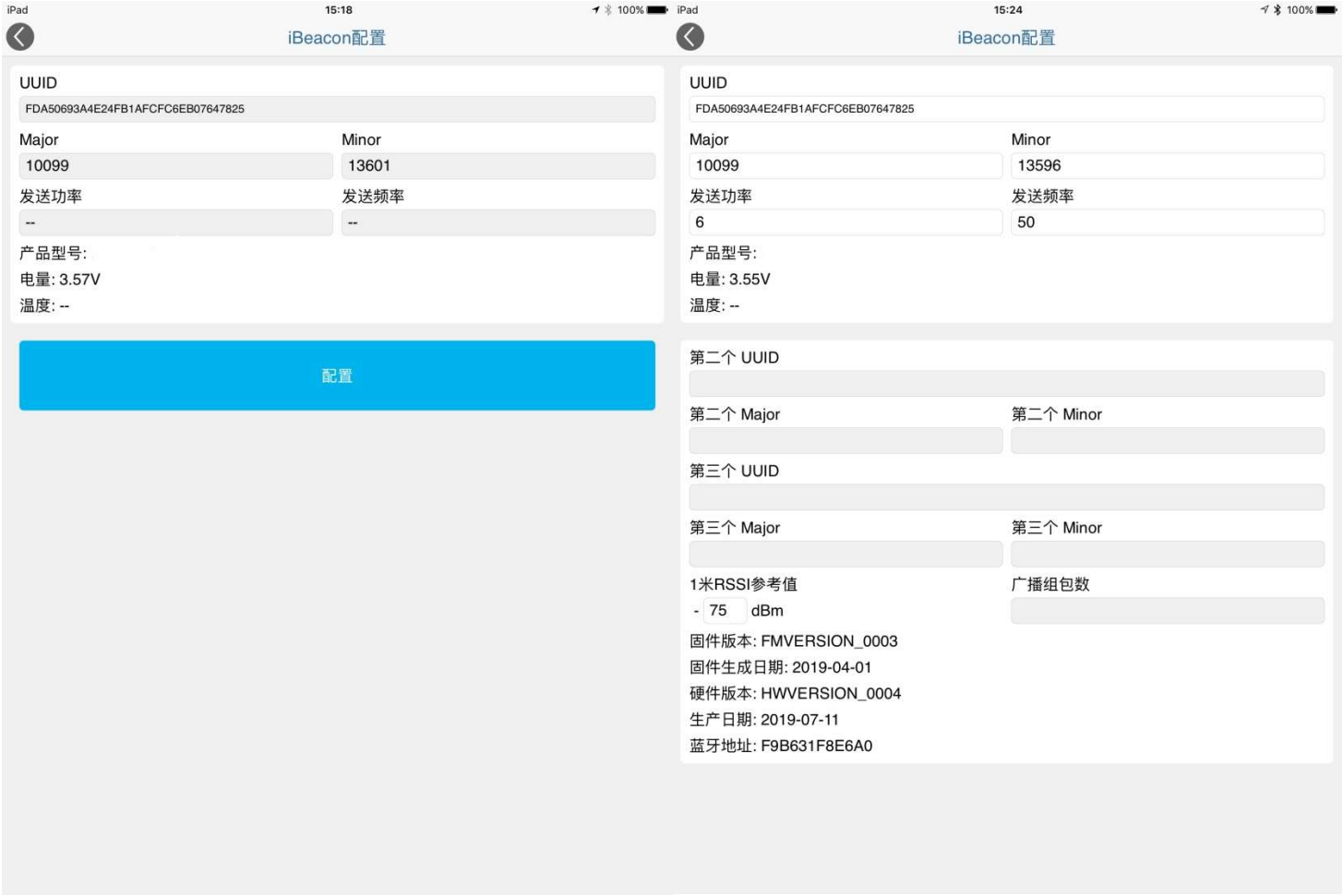
5. Electrical Parameters

Model	**BLM5200**
Quiescent Current	**1uA**
Typical current , Transmitting	**6.1mA**
Typical current Receiving	**5.9mA**
Battery Model	**ER14250H*2**
Battery Capacity	**2400mAH**
Battery Life	**5 years (0dBm&500ms)**
Operation Temperature	**-20℃~70℃**
Operation Frequency	**2.4 GHz Bluetooth**
Transmit Power	**-21~2dBm(Typical 0dBm)**
Broadcast Period	**20ms~10s(Typical 500ms)**
Signal Range	**Typical 100 meter**
Security	**Only compliable to OEM APP(with security access)**
Application Supported OS	**Requires iOS 7.0 or later** **Requires Android 4.3 or later**

6. Configuration Toolkit

We supply the application software in the iPhone&IPad to configure and calibration the product. The supported parameters include UUID, Major, Minor, Transmit Power, Messages Interval Period. The Golden Sample is shown as below. We also provide the technical support if customer needs additional requirement.



7. Certification

Radio Certification

(No：2019-12412)

8. Package

Package	Open Carton
Chart	 
Quantity	**120 pcs**
Gross	**5.5kg**
Demission	**290*170*190mm**

9. Quality Assurance

The manufactory is certified to ISO9001. Every sample will be verified (Transmit power, power consumption, reliable test) before shipping.

10. Contact

Appendix

FCC Caution:

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

To maintain compliance with FCC’ s RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.