

i Beacon

Datasheet



型号 : BLM5150

Suzhou Beelinker Technology Co.,Ltd

MODEL NO/DESCRIPTION

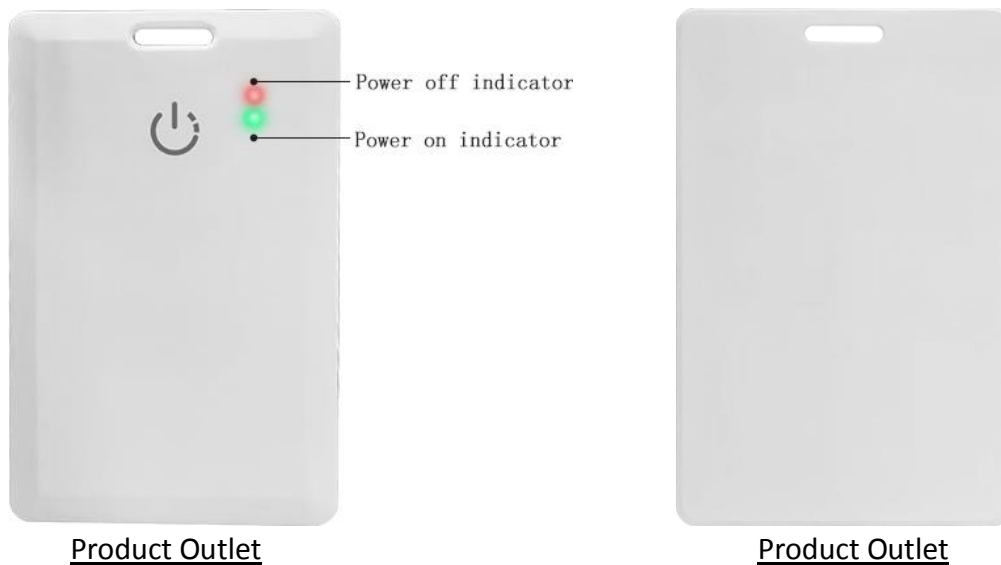
Product Name	iBeacon
Product Mode	BLM5150
Version	1.0
Release Date	2022.11

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1. Product Description

With more than 10 years in-house design and practice experience in the iBeacon market, we bring the latest Bluetooth 5.1 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.



2. Production Features

- ★ Ultra-low power consuming, 2 years without recharge (0db, 500ms interval)
- ★ Support on/off function,support one key alarm,low power alarm
- ★ RFID(13,56Mhz) proximity sensing function is provided,it can support acceleration sensor function,large-scale applications,stable and reliable

3. Application Scenario

Combined with Bluetooth gateway, it is widely used in indoor real-time positioning of personnel and materials, such as external personnel positioning, hospital valuable equipment positioning, storage materials positioning management; Intelligent inspection and check-in, such as automatic inspection of factory security personnel, vehicle and employee check-in, meeting check-in and other scenes.



4. Characteristics

Model	BLM5150
Water & Dust Protection	IP67
Housing Materials	ABS
Outlet Color	White
Dimension	85×53.6×4.1mm
Weight	17.64g(With Battery)
Battery	One-time Lithium-Manganese battery(800mAh)
Installation	Hanging rope to wear

5. Electrical Parameters

Model	BLM5150
Quiescent Current	1uA
Typical current , Transmitting	6.1mA
Typical current Receiving	5.9mA
Battery Model	One-time Lithium-Manganese battery
Battery Capacity	800mAH
Battery Life	2 years (0dBm&500ms)
Operation Temperature	-20°C ~ 60°C
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

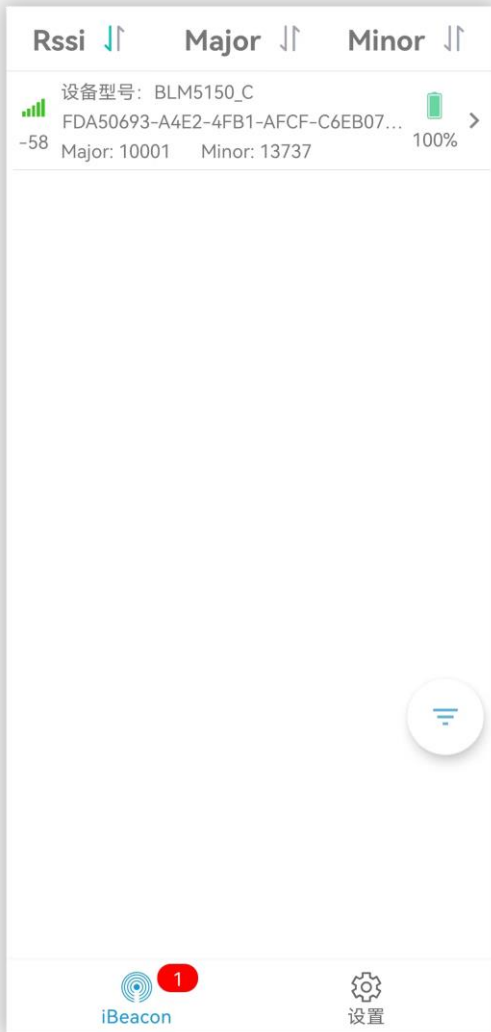
Key Status Description

1. Power on: Off state, press the button twice, the green light is on for 2 seconds, enter the working state.
2. Shutdown: In working state, press the button for four times, the red light will be on for five seconds and then go off, entering the shutdown state.
3. Alarm: In working state, long press the key for 2 seconds, the green light blinks at a frequency of 200ms for 2 seconds and then goes out, entering the alarm state. The alarm lasts for 30 seconds, and other events cannot be processed during the alarm.

Status switching	Key status	LED Status
off → on	Press it twice	The green light is on for 2seconds and then goes off
on → off	Short press once	Keep the red light on for 5 seconds and then turn it off
on → alarm	Hold on for 2 seconds	The green light blinks at a frequency of 200ms for 2 seconds an then goes off.The alarm lasts for 30 seconds


6. Configuration Toolkit

Our company has app/ applet tools (ios/android platform) that can support the configuration parameters of this product. The configurable parameters include UUID, major, minor, transmission power and transmission interval. The figure below is a typical configuration interface. If the customer has the field configuration requirements, please ask our technical support.



7.Certification

8.Package

Package	Open Carton
Chart	
Quantity	48pcs
Gross	1kg
Size	285*120*40mm

9. Quality Assurance

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



10.Contact



The image is a contact information card for Beelinker Technology. At the top left is the company logo, a blue 'B' with the Chinese characters '博联科技' and 'Beelinker Technology' below it. To the right are two red logos: one with a stylized 'P' and three stars, labeled '国家专利' (National Patent), and another with a stylized 'TP' labeled '高新企业' (High-tech Enterprise). Below these are several small images: a person in a lab coat working at a computer, a group of people holding a banner with the company logo, a piece of laboratory equipment, a person in a lab coat working at a computer, a person in a lab coat working at a computer, a person in a lab coat working at a computer, and a person in a lab coat working at a computer. At the bottom, there is contact information: a phone icon followed by '0512-62997201-8831', a globe icon followed by 'www.beelinker.com', an envelope icon followed by 'zhangyan@beelinker.com', and a location pin icon followed by '江苏省苏州市工业园区林泉街399号南工院'.

博联科技
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国家专利 高新企业

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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.

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.

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