博联科技
BeeLinker Technology

Bluetooth asset tagging

Product Brochure

BLM5550

Suzhou Beelinker Technology Co,.Ltd

MODEL NO/DESCRIPTION

Name	Bluetooth asset tagging
Model	BLM5550
Version	1.0
Release Date	2023.10

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1. Product Description

The beacon product independently developed by Suzhou Bollion Technology is suitable for asset tracking and positioning, featuring low power consumption, high waterproof level and easy deployment. It adopts Nordic nRF52 series low-power Bluetooth chip and low-power Bluetooth BLE 5.0 technology, which meets the specification of iBeacon, Beacon and Eddystone protocols, with high security and reliability, and supports the setting of user's connection secret key. The product adopts plastic sealing design, waterproof up to IP67, using long plastic shell, the overall delicate and beautiful; with the company's Bluetooth gateway and indoor positioning technology, can be used in a variety of application scenarios.

front view

rear view

2. Product Features

- ★ Low power consumption for 2 years (0db,1s interval)
- ★ Plastic moulding process design, waterproof rating IP67
- ★ Professional housing design, easy to deploy on the surface of instruments, equipment, cargo stacks and other objects.

3. Application

Widely used in important asset management, such as intelligent warehouse management, with Bluetooth gateway, can achieve automatic inventory of assets and rapid positioning to retrieve materials; such as the management of valuable equipment in hospitals, can be deployed in a number of frequently used medical equipment, in order to more efficient management of medical resources.

4. Physical properties

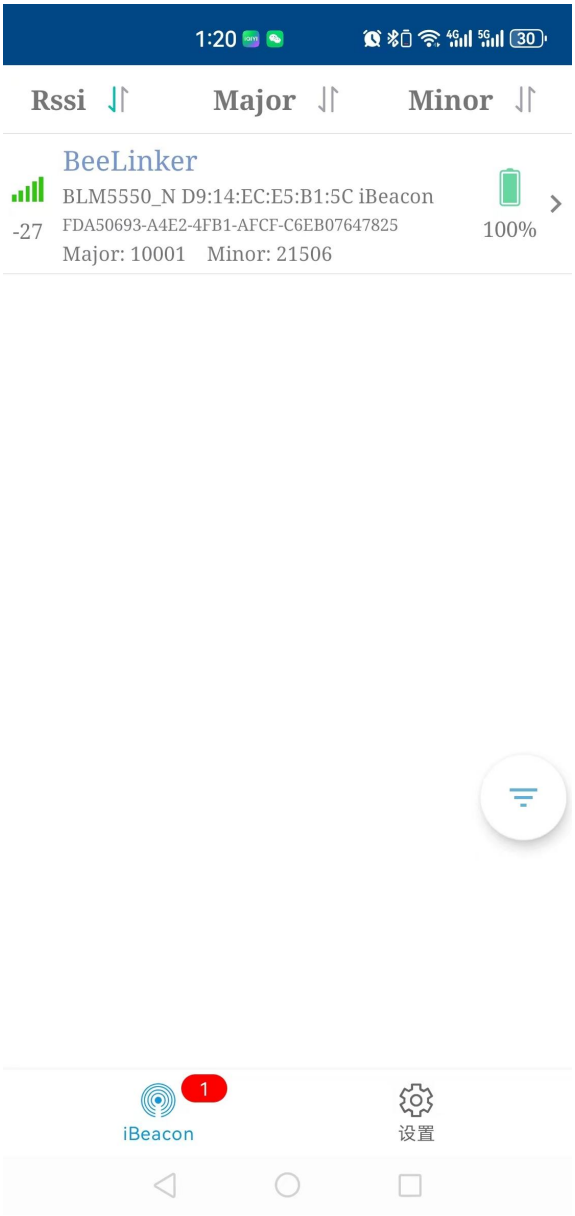
Model	**BLM5550**
Water & Dust Protection	**IP67**
Shell material	**ABS**
Shell color	**White、black**
Overall dimensions	**98.7×25×8.9mm**
Weight	**19.56g(With Battery)**
Battery	**CR2032(button cell)**
Supply voltage	**DC3.6V**
Installation	**3M adhesive**

5. Specification parameters

Model	**BLM5550**
Quiescent Current	**1uA**
Typical value of peak emission current (@0dBm)	**4.6mA**
Receiving peak current typical	**4.6mA**
Battery Model	**CR2032*2**
Battery Capacity	**440mAh**
Battery Life	**2 years (0dBm&1s)**
Operation Temperature	**-20℃～70℃**
Operation Frequency	**2.4 GHz Bluetooth**
Transmit Power	**-40～4dBm(Typical 0dBm)**
Broadcast Period	**20ms～2s(Typical 1s)**
Signal Range	**50m in typical configuration**
Security	**Only supports manufacturer app links (with communication key)**
Application Supported OS	**IOS 7.0 and above, Android 4.3 and above**

6. Configuration Toolkit

Our company has a tool to support the configuration parameters of this product (Android platform APP), the configurable parameters include UUID, Major, Minor, Transmit Power, Transmission Interval. The following figure shows the typical configuration interface, if customers have on-site configuration needs, you can consult our technical support.



7. Certification

8. Package

Package	Outer case (with battery)
Packing	
Quantity	200pcs
Gross	2.4kg
Size	232*284*180mm

9. Quality Assurance

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

10. Contact Us

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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.