

Tamper-proof asset beacon Datasheet



BLM5510

Suzhou Beelinker Technology Co.,Ltd

MODEL NO/DESCRIPTION

Product Name	Tamper-proof asset beacon
Product Mode	BLM5510
Version	1.0
Release Date	2023.2

目 录

1.Product Description	3
2.Product Features	3
3.Application	4
4.Characteristics	4
5.Specifications	5
6.Certification Information	8
7.Packaging Information.....	8
8.Quality Assurance	9
9.Contact	10

1.Product Description

Suzhou Bolian Technology's self-developed tamper-proof asset beacon product for asset tracking and positioning, with long standby time, easy to open independently, tamper-proof alarm and other characteristics. It uses Texas Instruments (TI) CC2640 low-power Bluetooth chip, low-power Bluetooth BLE 5.1 technology, in line with iBeacon, Beacon, Eddystone protocol specifications, high security, reliability, and supports the user connection secret key settings. It has a snap-on tamper-proof design, so if the beacon is forcibly removed, it broadcasts a specific beacon to the management gateway indicating that the asset beacon has been removed, preventing important assets from being stolen or maliciously moved. The compact, rectangular plastic housing is thin and light, and can be used in a variety of applications with the company's Bluetooth gateway and indoor positioning technology.



Front view



Back view

2.Product Features

- ★ Easy autonomous switch-on, multi-pack broadcast, 2 years range (0db,10s interval)
- ★ Self-tamper switch with anti-tamper alarm function
- ★ Compact and lightweight, easy to deploy and manage important office supplies, storage materials, medical equipment, etc

3.Application

Widely used in the management of important assets, such as intelligent storage management, with Bluetooth gateway, can achieve automatic asset inventory, alarm in case of forced dismantling and rapid location to retrieve materials; such as hospital valuable equipment management, can be deployed on some frequently used medical equipment, in order to more efficient management of medical resources, etc.



4.Characteristics

Model	BLM5510
Industrial grade	IP53
Housing material	ABS
Shell colour	White、 black
Dimensions	45.2×23.6×5.4mm
Product quality	7g (With Battery)
Battery	CR2032(button cell)
Supply voltage	DC3.6V
Mounting method	Double-sided adhesive paste

5.Specifications

Model	BLM5510
Quiescent Current	1uA
Peak transmit current typical (@0dBm)	6.1mA
Receiving peak current typical	5.9mA
Battery Model	CR2032
Battery Capacity	200mAh
Battery Life	2years (0dBm&10s)
Operation Temperature	-20°C ~ 70°C
Operation Frequency	2.4 GHz Bluetooth
Transmit Power	-21~5dBm(Typical 0dBm)
Broadcast Period	Broadcast status:10S(iBeacon)+10S(Alarm Package)
	Alarm status: 2S(iBeacon)+2SAlarm Package
Signal Range	Typical 50 meter
Security	Only compliable to OEM APP(with security access)
Application	Requires iOS 7.0 or later
Supported OS	Requires Android 4.3 or later

Description of parameters :

Broadcast parameters			
Broadcast frames	Status	Designation	Default value
Anti-tamper radio	Normal	Transmit Power	0dBm
		Broadcast interval	10s
		Tamper-proof status	00(Normal)
	Anti-tamper alarm	Transmit Power	0dBm
		Broadcast interval	10s
		Tamper-proof status	01(Alarm)
		Broadcast continues	30s
ibeacon broadcast	Normal	Transmit Power	0dBm
		Broadcast interval	10s
	Anti-tamper alarm	Transmit Power	0dBm
		Broadcast interval	2s
		Broadcast continues	30s

Operating Instructions :

➤ Start up :

Press and hold the switch to meet 2s and above, then release and the green light flashes for 3s, the product is switched on successfully.

➤ Shut down :

In the power on state, long press the switch to meet 2s and more, then release, the red light flashes for 3s, the product is switched off successfully.

Anti-tamper alarm :


When the product button is pressed for more than 10s before releasing in the on state, the product will broadcast the anti-tamper alarm status for 30s.

Cautions :

- The switching on and off of the product requires attention to the microswitch release, the switching function is triggered by the microswitch release;
- When using the on/off function, attention needs to be paid to the duration of key presses, which should not exceed a maximum of 8s;
- When the product is tamper alarmed, there is no LED indication, it only changes the tamper status of the tamper alarm kit and the two broadcast
- broadcast interval.

6.Certification Information

7.Packaging Information

Package	Open Carton
Chart	
Quantity	40pcs
Gross	1.1kg
Size	114*102*41mm

8. Quality Assurance

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



9.Contact



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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.