

i Beacon Datasheet



BLM5210

Suzhou Beelinker Technology Co.,Ltd

MODEL NO/DESCRIPTION

Product Name	iBeacon
Product Mode	BLM5210
Version	1.0
Release Date	2023.5

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1. Product Description

Suzhou Bolian Technology independently developed a new generation of low-power standard Bluetooth beacon products applied to indoor and outdoor scenes, with long standby, waterproof, independent switching, convenient construction and installation, replacement of standard batteries and other characteristics. It uses Texas Instruments (TI) CC26 series low-power Bluetooth chip, low-power Bluetooth BLE 5.1 technology, in line with iBeacon, Beacon, Eddystone protocol specification, high security, reliability, and support for user connection secret key settings. The rounded plastic housing is aesthetically pleasing and features a rotating thread sealing process for IP67 waterproofing and easy battery replacement.



Product view



Product structure diagram

2. Production Features

- ★ Ultra-low power consumption with up to 5 years of endurance (0db, 500ms interval)
- ★ Threaded rotary sealing process, waterproof to IP67
- ★ Standard battery holder process for easy battery replacement
- ★ Support for iBeacon, Beacon, Eddystone multiple protocols
- ★ Large-scale applications, stable and reliable

3. Application

Widely used in WeChat's "shake" periphery, such as customer advertising, coupon push and other precision marketing; tourist attractions, museums and other intelligent guide, online interpretation; location-based information push and interaction; nursing homes, hospitals, large shopping centres scene indoor positioning navigation; hospitals, warehousing scenarios, material management; factory punch card, inspection and other scenarios.



4. Characteristics

Model	BLM5210
Water & Dust Protection	IP67
Shell material	PC
Shell color	White, black
Overall dimensions	Φ54.8×24.17mm
Weight	50g(With Battery)
Battery	ER14250H*2 (Lithium sub batteries)
Supply voltage	DC3.6V
Installation	Snap base / 3M adhesive

5. Electrical Parameters

Model	BLM5210
Quiescent Current	1uA
Typical value of peak emission current (@0dBm)	6.1mA
Receiving peak current typical	5.9mA
Battery Model	ER14250H*2
Battery Capacity	2400mAh
Battery Life	5years (0dBm&500ms)
Operation Temperature	-40°C ~ 85°C
Operation Frequency	2.4 GHz Bluetooth
Transmit Power	-21~5dBm(Typical 0dBm)
Broadcast Period	20ms ~ 2s(Typical 500ms)
Signal Range	100m 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

7. Certification

8. Package

Package	Open Carton	
Packing		
Quantity	60pcs	120pcs
Gross	3.5 kg	6.5kg
Size	232*284*180mm	465*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



The collage features the BeeLinker Technology logo in the top left. In the top right, there are two logos: one for '国家专利' (National Patent) and another for '高新企业' (High-tech Enterprise). The central part of the collage contains several photographs: a technician working at a workstation, a group of people holding a banner with the company logo, a piece of laboratory equipment with a screen, a technician in a lab coat, a large laboratory room, a close-up of a piece of equipment with a graph on its screen, and a person working at a computer workstation. The background of the collage is a cityscape with tall buildings.

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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.