

Intelligent Portable Beacon

Datasheet



BLM5520

Suzhou Beelinker Technology Co.,Ltd

MODEL NO/DESCRIPTION

Product Name	Intelligent Portable Beacon
Product Mode	BLM5520
Version	1.0
Release Date	2023.4

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1. Product Description

The beacon product independently developed by Suzhou Bolian Technology, suitable for asset and personnel tracking and positioning, has the characteristics of low power consumption, compact structure, convenient battery replacement, and intelligent portability. Select TI CC26 series low-power Bluetooth chip, use low-power Bluetooth BLE 5.1 technology, comply with iBeacon, Beacon, and Eddystone protocol specifications, high security and reliability, and support user connection key settings. This product adopts a detachable buckle design for easy battery replacement. Choose a small rectangular plastic shell, which is lightweight and delicate in appearance; Combined with the company's Bluetooth gateway and indoor positioning technology, it can be used in various application scenarios.



front view



rear view

2. Production Features

- ★ Low power consumption, 8 months of battery life (0db, 875ms interval)
- ★ Detachable buckle for easy battery replacement
- ★ Small and lightweight, convenient for personnel to carry, deploy, and manage important office supplies, warehousing materials, medical equipment, etc

3. Application

Widely used in important asset management, such as intelligent warehouse management, combined with Bluetooth gateway, it can achieve automatic asset inventory and rapid positioning and retrieval of materials; For example, the management of valuable equipment in hospitals can be deployed on some frequently used medical equipment to manage medical resources more efficiently.



4. Characteristics

Model	BLM5520
Water & Dust Protection	IP53
Shell material	ABS
Shell color	White、 black
Overall dimensions	36.75×23.8×5.3mm
Weight	6.27g (With Battery)
Battery	CR2032(Button cell)
Supply Voltage	DC3.6V
Installation method	3M adhesive pasting、 Wearing a lanyard


5. Electrical Parameters

Model	BLM5520
Quiescent Current	1uA
Typical value of peak emission current (@0dBm)	6.1mA
Receiving peak current typical	5.9mA
Battery Model	CR2032
Battery Capacity	230mAh
Battery Life	8 months (0dBm&875ms)
Operation Temperature	-20°C ~ 70°C
Operation Frequency	2.4 GHz Bluetooth
Transmit Power	-21~5dBm(Typical 0dBm)
Broadcast Period	20ms~2ms(Typical 875ms)
Signal Range	50m under 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	100pcs
Gross	1kg
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



The collage features the BeeLinker Technology logo in the top left. To its right are two logos: a red and blue 'IP' logo with stars labeled '国家专利' (National Patent) and a red 'CP' logo labeled '高新企业' (High-tech Enterprise). The central part of the collage consists of several photographs: a technician in a lab coat working at a workstation, a group of people holding a banner with the company logo, a close-up of a piece of electronic equipment, a person in a lab coat operating a machine, a person working at a computer, and a person in a lab coat working at a workstation. The background of the collage is a light blue and white cityscape.

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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.