



Bluetooth Beacon

Ultra Low Energy Bluetooth Beacon MS_Bx00 series

- Ultra-low power consumption
- Easy to deploy without wiring
- Removable and replaceable battery by rotating shell
- Support single-cell and double-cell battery shipments
- SDK interface open



The Bluetooth beacon MS_Bx00 series is based on TI's ultra-low power BLE chip, and it is product independently developed by the baseband part. Compatible with Bluetooth iBeacon protocol and ordinary private 2.4GHz protocol, mainly used in indoor and outdoor positioning. The iBeacon protocol is a broadcast protocol based on Bluetooth low energy hardware launched by Apple. The protocol is free and open. iOS 7.0 and Android 4.3.3 and above operating system versions support this protocol. The working method is that a device equipped with a low-power Bluetooth communication function sends its own unique iBeacon ID to the surroundings, and the application software that receives the ID will trigger an action based on the ID.

The iBeacon ID refers to the ID broadcast by the iBeacon device. The ID consists of three fields: UUID, Major, and Minor. The uniqueness of the device ID must be ensured.

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Side View

Product Specification

Model	MS_Bx00		
Features	Broadcast ibeacon packages regularly		
Working Frequency	2.4GHz Bluetooth	Receiver Sensitivity	-96dBm
Transmit Power	Max -1.487dBm	Operating Voltage	DC1.8~3.8V (Typ3.3V)
Sleep Current	< 1uA(Typ)	TX(@0dBm)	< 6.1mA(Typ)
RX	< 5.9mA	Communication Distance	100m@0dBm
Operating Temperature	-20°C~+70°C	Protection Level	IP67
Size	Φ47mm×27mm	Weight	43g
Standby Time	> 4 Years @0dBm	Deployment Method	3M glue sticking & Screw fixing

Typical Application

- 01 Smart business district application solutions
- 02 Smart factory application solutions
- 03 Smart Tourism Solution
- 04 Museums and attractions solutions
- 05 Parking lot solutions
- 06 Solutions for hospitals and government agencies

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.