

Portable Tag Datasheet

Model : MTB01

MTB01 is a Bluetooth®LE tag developed by Minew for asset management and personnel trajectory analysis. It has a hanging hole making it very easy to hang on assets and people. It also has a flat back which makes it very easy to stick. MTB01 is equipped with CR2032 battery and can be replaced, the overall cost performance is high.

FEATURES

- Cost-effective
- 110 m broadcast transmission distance
- Dual-channel broadcast
- Portable to use
- Easy installation, replaceable battery



SPECIFICATION

Basic Specifications

Material	ABS
Color	White
Size (L * W * H)	39.8 * 25.3 * 5.4 mm
Weight	6.2g (battery included)
Battery type	1 CR battery
Battery capacity	220 mAh
Battery life	1.4 years (default settings)
Sensor	/
LED	1 pc
Button	/
NFC	/
OTA	Not supported
Information view app	BeaconSET or BeaconSET+

Note: BeaconSET or BeaconSET+ can only be used to view the broadcast information, not to connect to the device.

Technical Specifications

Bluetooth® version	Bluetooth® LE 5.3
Broadcast power	Options: -20, -16, -11, -7, -3, 0, 3 dBm Default 0 dBm
Broadcast interval	100 ms ~ 10 s, default 2000 ms
Broadcast distance	110 m (open space)
Working temperature	-20°C ~ 60°C
Storing temperature	20°C ~ 35°C (ideal temperature for storing battery)
Security	Non-connectable mode, data cannot be altered

Broadcast Specifications

Type/ channel	Item	Default settings
iBeacon (activated by default)	UUID (16 bytes)	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (configurable)
	Major (2 bytes)	0 (0 - 65535, configurable)
	Minor (2 bytes)	0 (0 - 65535, configurable)
	Measured power	-59 dBm (0xC5)
	Tx power	0 dBm
	Interval (ms)	2000 ms
MBeacon INFO (activated by default)	Device name	MTB01
	Battery voltage (mV)	Depends on the status
	MAC address	Assigned before shipment
	Measured power	-24 dBm (0xE8)
	Tx power	0 dBm
	Interval (ms)	4000 ms

Note:

- ①The product only supports 2 broadcast frames, which can be selected from iBeacon, MBeacon INFO, UID, URL, and TLM, and the broadcast power must be consistent.
- ②The parameters of the finished product need to be determined at the time of production. Once programmed into the chip, the parameters cannot be modified.

Compatibilities

Supported systems	Supported models
iOS 10.0 and above	iPhone6/6Plus/6S/6SPlus, iPhone 7/7Plus, iPhone 8/8Plus, iPhone x/xr/xs/xs max, iPhone SE/SE2, iPhone 11/11 pro/11 pro max
Android 4.3 and above	Samsung, Xiaomi, Huawei, Honor, OnePlus, Google Pixel, etc.

INSTRUCTION

Power on: unplug the insulating sheet, and the device will start when it is powered on.

Shutdown: remove the battery.

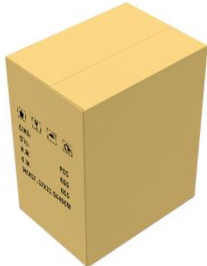
Battery check: the product has no indicator light, and the battery power information can be judged by the voltage information in the MBeacon INFO frame.

Broadcast viewing: check whether the device is broadcasting by BeaconSET or BeaconSET+ App.

PRECAUTIONS

1. After the product is powered on, it will be in broadcast mode and cannot be connected.
2. The finished product does not support burning firmware provided by customers.
3. To extend the battery life if needed, it is recommended to choose a low broadcast power and a long broadcast interval firmware version at the manufacturing stage.
4. If the operating temperature is exceeded, there could be damage to the product.
5. Please avoid direct sunlight for an extended period to avoid aging of the shell when in use.
6. Minew will not be responsible for any damage resulting from disassembling manually.
7. This product is suitable for use in scenarios away from children such as in warehouses and factories.

Package

Items	Internal carton	External box
Pictures		
Units	80	800
Sizes	30.5 * 11 * 7.2 cm	32 * 23.5 * 40 cm
Gross weight	628 g	6750 g

QUALITY ASSURANCE

The factory has already obtained the certification of ISO9001 Quality System. Each product has been strictly tested (tests include transmission power, sensitivity, power consumption, stability, aging, etc.).
Warranty Period: 12 months from the date of shipping (Battery and other accessories excluded).

DECLARATION

Statement of Rights:

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Disclaimer:

Minew team reserves the right to the final explanation of the document and product differences. The Minew group is not responsible for liability of property or personal injury with the wrong operation if users develop related products without checking the technical specifications of this manual.

FCC Warning

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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.

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