Brief Introduction

MBS01 with nRF52 series chip and supporting BLE 5.0 protocol is a low-consumption beacon for trailer tracking; it is easily installed on the trailer or forklifts due to its special design; Besides, based on the indoor positioning technology, the product can help industries including factory manufacturing and warehouse management to achieve digital and visual management on assets.

Key Features

BLE 5.0 & nRF52 Series
40 Months of Service Life
Accidental Shutdown Prevention
Ik08 Shockproof
IP65 Waterproof & Dustproof
100m Broadcasting Distance

Market Applications

Smart Warehouse Management
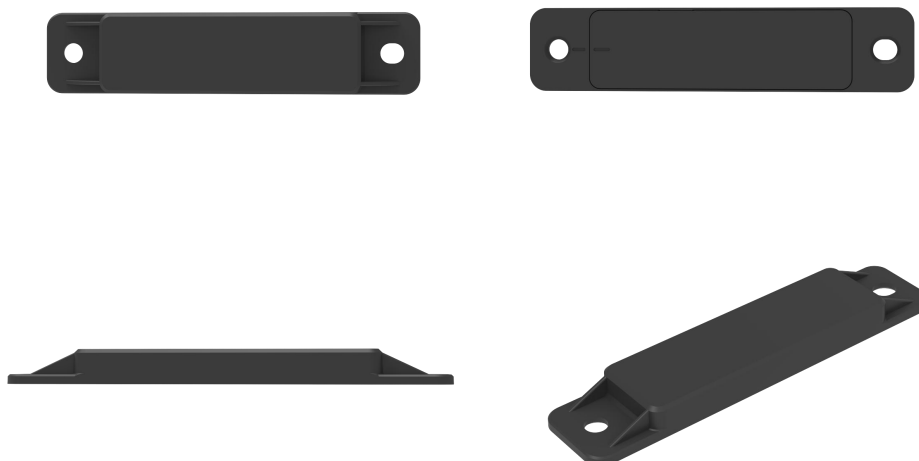Smart Industrial Manufacturing

Device Specifications

Basic Parameters

Item	Value	Remarks
Material	ABS	Null
Color	Black/Grey	Optional
Protection	IP65、IK08	Null
Dimensions（L*W*H）	116.1*25.2*9.2mm	Null
Net Weight	19g	Battery included
Battery	1 pc CR series battery pack（2 pcs units included）	440mAh total capacity
Battery Lifetime	40 Months	by default
Chip Model	nRF52 series	Null
Bluetooth Standard	BLE 5.0	Null
Bluetooth Protocol	iBeacon & Eddystone	Null
Configuration App	BeaconSET +	Null

Sensors	No	Null
NFC	No	Null
LED	No	Null
OTA	No	Null
Operating Temperature	-20~60℃	Null

Default Broadcasting Parameters(BeaconPlus Firmware)

Type	Item	Default Settings
iBeacon (On)	UUID (16bytes)	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0
	Major (2bytes)	0
	Minor (2bytes)	0
	Measured power	-59dBm (0xC5)
	Tx power	0dBm
	Interval (ms)	2000ms
UID (Off)	Instance ID	Random
	Namespace ID	Random
	Measured power	-24dBm (0xE8)
	Tx power	0dBm
	Interval (ms)	2000ms
URL (Off)	URL	http://www.minew.com/
	Measured power	-24dBm (0xE8)
	Tx power	0dBm
	Interval (ms)	2000ms
TLM (Off)	Electricity mV	By default
	PDU packets	By default
	Boot-time	By default
	Measured power	-24dBm (0xE8)
	Tx power	0dBm
	Interval (ms)	4000ms
INFO (On)	Device Name	MBS01
	Electricity	By default
	MAC Address	Factory setting
	Measured power	-24dBm (0xE8)
	Tx power	-8dBm
	Interval (ms)	4000ms
Sensor (Off)	Sensor data	No
Password	minew123	By default
Connectable	Yes	It is configuration mode

Compatibility

Systems Support	Version Support
iOS 10.0 and above	iPhone 6/6Plus/6S/6S Plus, iPhone 7/7Plus, iPhone8/8 Plus, iPhone x/xr/xs/xs max, iPhone 11/11 pro/11 pro max, iPad mini/mini2/4/Air/Pro, etc.
Android 4.3 and above	SAMSUNG, MIUI, HUAWEI, ONEPLUS, VIVO, OPPO, etc.

Product Appearance

Installations

Methods: Double-side adhesive tape & Screw installation

Details:

Double-side adhesive notes:

- **Recommended Installation Environment:** The material surface should be Aluminum, galvanized steel, enamel steel, stainless steel, ceramic, glass/epoxy resin, acrylic, PBT, ABS, PC, hard PVC, etc.

- **Temperature Range:** 10 ~ 75℃

- **Best Temperature:** 21 ~ 38℃, use in a low-temperature

- **Requirements:** No dust on the material surface and clean it before installation. Before pasting, increasing the viscosity with a hairdryer, or sticking it over half-hours at a reasonable temperature and then pressing for 2 seconds and repeat for better stability.

Screw installation notes:

- **Recommended Installation Environment:** Screws installation should be considered on the wooden pallet, iron shelf, etc.

- **Temperature Range:** -20 ~ 60℃

- **Detail Steps:**

    First Step: drill screw holes on the surface of a hard surface to be installed.

    Second: put the green expansion plug into the screw holes on the hard surface to be installed.

    The Last: put the screws into the green expansion plug, and install the product in the direction of screw holes.

Notes: the diameter of screws hole is 6mm; the installation above is **only** as a reference; users should install the product according to the actual situation.

Cautions

- The product is designed with no button and switched on when shipping for avoiding the false trigger, and it also cannot be switched off by configuration app until the battery is exhausted.
- In a humid environment, the product needs to be installed according to its waterproof grade, and should avoid soaking for a long-time.
- BLE beacons should be installed away from obstacles and corners.
- It is not recommended users turn on all broadcasting frames for a long service life.
- It would be damaged by using over the normal operating temperature.
- Please avoid the direct sunshine so that damages the shell and affects the shockproof grade.
- The Minew group will not be responsible for the damage or injury by illegally dissembling the main body.

Product Package

Items	Inner Box (Battery excluded)	Outer Box (Battery excluded)
Package Picture		
Quantity	36 Pcs/box	360 Pcs/box
Net Weight	684g/box	6.84kg/box
Gross Weight	762g/box	8.1kg/box
Dimensions	30.5 x 11 x 7.2 cm	32 x 23.5 x 40 cm

Certifications

CE FC

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Quality Assurance

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

Declaration

Rights Statement
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