

Wristband Beacon

Model: B7 Datasheet V1.0

Part #	Description
B7-6004A	205150004, Wristband beacon with push button, Bluetooth® 5.0, pre-flashed MiniBeacon Plus software supports broadcasting standard iBeacon, Eddystone (UID, URL, TLM) and Accelerometer sensor simultaneously.

The wristband beacon B7 is a new generation beacon with push button for hospital patients, personnel positioning and emergency call. The housing case is injection-molded with medical-grade materials. And thread-fixed structure makes it waterproof grade up to IP66. The wristband can be equipped with an NTAG213 NFC tag.

The wristband beacon is loaded with Bluetooth® 5.0 hardware platform based on nrf52 chip. It advertises iBeacon, Eddystone (UID, URL, TLM) and Accelerometer sensor simultaneously. The user can configure B7 wristband beacon via configuration app BeaconSET+ as well.

FEATURE

- Advertise iBeacon & Eddystone& 3-axis sensor data
- Bluetooth® 5.0 chipset
- 1pc CR2032 replaceable coin battery
- A push-button on the beacon
- IP66 waterproof grade
- Detachable wristband



Wristband beacon B7

APPLICATION

- Activity monitoring
- Hospital management
- Indoor location
- Personnel tracking

ACTIVATE & STOP B7

- Press the button of B7 for 5s, the LED lights on 5s then off, the device is activated on;
- Press the button of B7 for 5s, the LED flashes 5 times then off, the device is turned off.

CONFIGURATION TOOL

- BeaconSET+ (iOS & Android);
- The wristband beacon B7 can be turned off by app BeaconSET+;

CERTIFICATION

- iBeacon MFi License (iBC-14-00582)
- Bluetooth® EPL Certification
- FCC Regulation (FCC Part 15.)
- CE Regulations (Included EN300328/301489/60950/62479)

CONFIGURABLE PARAMETERS

Each B7 wristband beacon has been pre-configured in the factory before the shipment. Here below is given the main parameters and default settings.

Type	Item	Default Settings
iBeacon	UUID (16 bytes)	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (Proximity)
	Major (2 bytes)	0
	Minor (2 bytes)	0
Eddystone	Instance ID @UID	random (6 bytes)
	Namespace ID @UID	random (10 bytes)
	URL	https://www.minew.com
Base Parameters	Measured Power	-59 (0xC5)
	Radio Tx power	6 (0dBm)
	Adv. Interval	9(900mS)
	Beacon ID	random, it is the MAC address of beacon.
	Beacon Name	PLUS
	Connectable	yes (it is configuration mode)
	Password	minew123 (8 characters only)
Acc Sensor	x-axis	1. It depends on beacon's real status, static or movement 2. Only working when beacon with accelerometer sensor
	y-axis	
	z-axis	
Extra Function	Reset factory	available
	Power off	available
	Modify password	available
	Remove password	available
	Update firmware	available

ELECTRONIC PARAMETER

Item	Value	Remarks
Case Color	White	Other colors can be customized
Battery Model	1 x CR2032	1pc CR2032 coin battery, 220mAh, 3.0V
Operation Voltage	1.8-3.9V	DC
Transmission Circuit	5.3mA (Max.)	Tested at 0dBm transmission power
Transmission Range	90 meters	Maximum
Antenna	50ohm	On board / PCB Antenna
Net Weight	12.0g	With battery
Size	φ35.9*11mm	Null

TECHNICAL DOCUMENT

Item	Version	File Name	Date
Datasheet	V1.0	Wristband Beacon B7 Datasheet_V1.0	4 th Mar, 2020
Instruction	V2.0	MiniBeacon Plus Configuration Instruction	8 th May, 2018
SDK	V2.0	Both iOS and Android	19 th Dec, 2019

PACKING INFORMATION



Details	Gift Package Box	Carton
Quantity (B7)	1pc per gift package box	96pcs per carton
Net Weight	0.05kg	4.8Kg
Gross Weight	0.07Kg	7.5Kg
Size	30.5 x 11 x 7.5 cm	32 x 23 x 40 cm

FIRMWARE FLASH

1. J-LINK Programmer Kit;
2. Programming ports definition.

Please contact MINEW sales team to ask more related information if needed.

DECLARATION

The contents of this datasheet are subject to change without prior notice for further improvement. Minew team reserves the right to explain all the terms of this datasheet.

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