

Button Wristband Datasheet

Date: 2021-6-17

Part #	Description
B7	B7 is a button wristband with BLE 5.0, SOS button, and indoor positioning. Users can push the SOS button when they need help. Also, it can enable employees to check-in-&out in the office for management optimization with advanced NFC tech.

INTRODUCTION

B7 is a new generation beacon with push-button for hospital patients, personnel positioning, and emergency call. It is equipped with Bluetooth® 5.0 hardware platform based on nRF52 chip, advertising iBeacon, Eddystone (UID, URL, TLM), and Accelerometer sensor simultaneously. The user can configure the device beacon via BeaconSET+ App as well.

FEATURE

- Advertise iBeacon & Eddystone
- 3-axis sensor data(Only for NRF 52832)
- Bluetooth® 5.0 chipset
- 1pc CR series replaceable coin battery
- A push-button on the beacon
- IP67 waterproof grade, dust-proof, shock-proof
- Detachable wristband
- NFC available



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 3s 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+;

FIRMWARE UPGRADE

1. J-LINK Programmer Kit
2. Programming ports definition
3. OTA Available

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

ELECTRONIC PARAMETER

Item	Value	Remarks
Case Color	White	Other colors can be customized
Battery Model	1 x CR series	1pc CR series button 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	12g	With battery
Size	φ35.9*11mm	Main body

CONFIGURABLE PARAMETERS

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

BeaconPlus Firmware V1

Type	Item	Default Settings
iBeacon	UUID (16 bytes)	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (Proximity)
	Major (2 bytes)	0
	Minor (2 bytes)	0
	Measured Power	-59dBm9 (0xC5)
	Tx Power	0dBm
	Interval(ms)	900ms
UID (On)	Instance ID	Random
	Namespace ID	Random
	Measured Power	-24dBm(0xE8)
	Tx Power	0dBm
	Interval(ms)	2000ms
URL (On)	URL	http://www.minew.com
	Measured Power	-24dBm(0xE8)
	Tx Power	0dBm
	Interval(ms)	2000ms
TLM (On)	Electricity mV	By default
	Boot time	By default
	PDU packets	By default
	Measured power	-24dBm(0xE8)
	Tx power	0dBm
	Interval(ms)	4000ms

INFO (On)	Device name	B7
	Electricity	By default
	MAC address	Factory setting
	Measured power	-24dBm(0xE8)
	Tx power	-8dBm
	Interval(ms)	4000ms
Extra Function	Password	minew123(configurable)
	Connectable	Yes(it is configuration mode)
	Reset factory	available
	Update firmware	available
ACC Sensor	X-axis	1.The value is decided by the real status: stable or move; 2.Only act on the beacon with the accelerometer sensors inside.
	Y-axis	
	Z-axis	

BeaconPlus Firmware V2

Type	Item	Default Settings
iBeacon (Trigger once)	UUID(16bytes)	FDA50693-A4E2-4FB1-AFCF-C6EB07647825
	Major(2bytes)	10001 (0-65535, configurable)
	Minor(2bytes)	19641 (0-65535, configurable)
	Measured power	-59dBm(0xC5)
	Tx power	0dBm (-40~+4dBm, configurable)
	Interval(ms)	500ms (100ms~10s,configurable)
UID (Trigger twice)	Instance ID	Random
	Namespace ID	Random
	Measured power	-24dBm(0xE8)
	Tx power	0dBm (-40~+4dBm, configurable)
	Interval(ms)	2000ms (100ms~10s, configurable)
URL (Trigger three-times)	URL	http://www.minewtech.com/
	Measured power	-24dBm(0xE8)
	Tx power	0dBm (-40~+4dBm, configurable)
	Interval(ms)	2000ms (100ms~10s, configurable)

TLM (On)	Measured power	-24dBm(0xE8)
	Tx power	0dBm (-40~+4dBm, configurable)
	Interval(ms)	4000ms (100ms~10s, configurable)
INFO (On)	Measured power	-24dBm(0xE8)
	Tx power	-8dBm (-40~+4dBm, configurable)
	Interval(ms)	4000ms (100ms~10s, configurable)

COMPATIBILITY

Supporting device&system	Module of Supporting device
BLE	BLE4.2 and above
iOS7.0 and above	iPhone4S, iPhone5/5C/5S iPhone6/6Plus/6S/6SPlus, iPhone7/7Plus iPad mini/mini2/4/Air/pro, etc.
Android4.3 and above	Samsung Xiaomi ,Huawei ,OnePlus, Vivo, OPPO, etc.

PACKING INFORMATION



Details	Inner Box(Battery included)	Outer Box(Battery included)
Quantity(B7)	1pcs / box	96pcs / carton
Net Weight	12g	1152g
Gross Weight	48.5g	5.1Kg
Size	180x 100 x 12 cm	32 x 23.5 x 40 cm

TRIGGER OPERATION

NRF52810 Trigger Operation:

1. Click the button to broadcast iBeacon frame for 60s
2. Double click the button to broadcast URL frame for 60s
3. Press the key three times to broadcast UID frame for 60s

NRF52832 Trigger Operation:

1. Single Clicking is not supported
2. By default, double-click and triple click triggers are not available. If they are needed, access to BeaconSet + for setting.

CERTIFICATION

- iBeacon MFi License (iBC-14-00582)
- FCC Regulation available
- CE Regulation available
- FDA Regulation available

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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