Medical Wristband Datasheet

Date: 2021-6-17

Part #	Description
B6	B6 is a cost-effective smart medical wristband, specially designed for patients or priorities. With BLE tech and indoor positioning technology, it can help nurses quickly locate users' positions and react quickly to ensure security.

INTRODUCTION

B6 is a recyclable wristband with a magnetic switch to turn on/off, up to IP66 waterproof grade; it can be widely applied to personnel tracking, activity monitoring solutions, etc.

FEATURE

- Advertise standard iBeacon
- Bluetooth® 5.0 chipset
- The max.80 meters advertising distance
- IP66 waterproof&Dustproof
- Magnetic switch
- Detachable wristband
- Eco-friendly band

B6 Medical wristband

APPLICATION

- Personnel tracking
- Activity monitoring
- Inventory tracking

ACTIVATE & STOP B6

- Hold the magnet close to B6 for 5s, the LED lights on 5s then off, the device is activated on;
- Hold the magnet close to B6 for 5s, the LED flashes 5 times then off, it would be stopped;

CONFIGURATION TOOL

- BeaconSET (iOS & Android);

FIRMWARE FLASH

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

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 coin battery, 220mAh, 3.0V
Operation Voltage	1.8-3.9V	DC
Transmission Circuit	5.3mA (Max.)	Tested at 0dBm transmission power
Transmission Range	80 meters	Maximum
Antenna	50ohm	On board / PCB Antenna
Net Weight	9.5g	With battery
Size	36.2*26.1*7.2 mm	Null

SPECIFICATION

Compatibility

-Supported iOS 7.0+ and Android 4.3+ system;
-Compatible with Apple iBeacon^{TM} standard;
-Compatible with all Bluetooth 5.0 (BLE) devices;

Long Battery Lifetime and Battery Level

-8months(Theoretical value) , with the default settings;
-LED will be flashing when battery low;
-Easy to get the real-time battery level notification;

Soft-reboot

-Reboot the device via command without any tools;

OTA and J-Link

-Supported upgrade via Over-The-Air;
-Reserved J-Link port on the board for programming;

Connection Mode

-Advertising mode, non-connectable;
-Configuration mode, connectable;

Configurable Parameters

-UUID, Major, Minor, Device Name, Password etc.
-Special Configuration APP;

Transmission Power Levels

-8 adjustable levels, range from 0 to7
-Transmission power range: -30dBm to +4dBm;

Long Range

-The max. Range 80 meters in the open space;
-The range depends on the physical environment;

Security

-8 characters password (Lock/Unlock parameters);
-Broadcast the encrypted data if needed;
-AES HW encryption

CONFIGURABLE PARAMETERS

Each B6 medical wristband has been pre-configured in the factory before the shipment. Here below is given the main parameters and default settings.

Characteristic	Item	Default Settings
0xFFF1	UUID	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (Proximity)
0xFFF2	Major	0
0xFFF3	Minor	0
0xFFF4	Measured Power	-59 (0xC5)
0xFFF5	Transmission Power	6 (0dBm)
0xFFF6	Change Password	minew123 (Must be 8 characters)
0xFFF7	Broadcasting Interval	9(900ms)
0xFFF8	Serial ID	Random (Unique serial ID for beacon)
0xFFF9	iBeacon Name	MiniBeacon_ (the maximum 12 characters)
0xFFFE	Connection Mode	0 (connectable, configuration mode)
0xFFFF	Soft Reboot	minew123 (it is same as the value of Change Password)

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(B6)	50pcs / box	500pcs / carton
Net Weight	475g	4.75Kg
Gross Weight	500g	5.5Kg
Size	30.5 x 11 x 7.2 cm	32 x 23.5 x 40 cm

CERTIFICATION

- iBeacon MFi License (iBC-14-00582)

- FDA Regulations available
- FCC Regulation available
- CE Regulations 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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