BLE Beacon Card

Datasheet V1.0

FCC Statement

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

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The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.

Model	Description
CB10026CR	Rectangle shape, white & waterproof casing, CE&FCC certified BLE 4.0 module, powered by a Lithium Polymer battery, RoHS

The BLE Beacon Card CB10026CR is designed based on the Low Energy Bluetooth 4.0 technology, the shape of Beacon Card CB10026CR looks a bank/RFID card but it is waterproof and it has packed a Lithium polymer battery. Beacon Card CB10026CR broadcasts the data at regular and adjustable intervals according to Apple' standard iBeacon protocol, it can be heard and interpreted by iOS and Android BLE-enabled devices that are equipped with many mobile apps.

It widely used for the access control, trade shows, conferences, events and so on.

FEATURES

- **Programmed MiniBeacon standard firmware**
- **Powered by Lithium polymer battery**
- **The max. 100 meters advertising distance**
- **Ultra-low power consumption chipset Nordic nRF52832 with ARM core**
- **Easy to print the logo on the waterproof case;**

CB10026CR BLE Beacon Card

Image 1

CERTIFICATIONS

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

SPECIFICATION

Compatibility

- Supported iOS 7.0+ and Android 4.3+ system;
- Compatible with Apple iBeacon^{TM} standard;
- Compatible with all Bluetooth 4.0 (BLE) devices;

Long Battery Lifetime and Battery Level

- 24 months @ default settings;
- One-time using @ waterproof case;
- Easy to get the real-time battery level notification;

Soft-reboot

- Reboot the device via command without any tools;

Connection Mode

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

Mounting

- 3M branded adhesive for direct mounting to wall;

Configurable Parameters

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

Transmission Power Levels

- Default setting: 0dBm
- Transmission power level: -23dBm, +0dBm;
- The level must be programmed at the factory;

Long Range

- The max. Range 100 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

TURN ON C1

Please DO take out the battery sheet from the beacon device before using.

CONFIGURABLE PARAMETERS

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 14 characters)
0xFFFE	Connection Mode	0 (connectable, configuration mode)
0xFFFF	Soft Reboot	minew123 (it is same as the value of Change Password)

ELECTRONIC PARAMETERS

Item	Value	Remarks
Case Color	white	Other colors can be customized
Battery Model	Lithium Polymer battery	1pc x 3.7V
Operation Voltage	1.8-3.9V	DC
Transmission Current	4.5mA (Max.)	Tested at 0dBm transmission power
Transmission Range	100 meters	Maximum
Antenna	50ohm	On board / PCB Antenna
Accessories	Double adhesive	1pc, high-strength, 3M brand;
Net Weight	18.0g	With battery
Size	90 x 60 x 4 mm	Null

TECHNICAL SUPPORT

Item	Version	File Name	Updated Date
Datasheet	V1.0	CB10026CR_MiniBeacon Datasheet_1.0.pdf	15th August, 2015
Instruction	V2.03	Instructions_MiniBeacon_V2.03.pdf	25th May, 2015
SDK	V1.0	Android Reference Source Code; iOS Reference Source Code;	28th February, 2015
APP Tools	V2.0	iBeaconCFG; iBeaconDFU;	3rd March, 2015

* Minew sales team will send you these documents after the sample arrived.

PACKING INFORMATION

Standard Package:

Image 7

Details	Package Box	Carton
Quantity (CB10026CR)	80pcs per package box	800pcs per carton
Net Weight	1.45kg	14.5Kg
Gross Weight	1.55Kg	16.5Kg
Size	30.5 x 11 x 7.5 cm	32 x 23 x 40 cm

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. **<END>**