Datasheet V1.01

Beacon / iBeacon / MiniBeacon

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| Model | Description | |
|-------|--------------------------------------|--|
| С3-В | Black casing, mini USB iBeacon, RoHS | |
| C3-W | White casing, mini USB iBeacon, RoHS | |

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The Mini USB iBeacon C3 is a mini USB iBeacon with ARM core chipset nRF51822 and leverage BLE 4.0 technology; it is powered by USB slot, accurate hardware and robust firmware. It is designed for the commercial advertising and indoor location-based service.

Minew Beacons broadcast 2.4GHz radio signals at regular and adjustable intervals. MiniBeacon can be heard and interpreted by iOS and Android BLE-enabled devices that are equipped with many mobile apps.

FEATURES

- Programmed MiniBeacon standard firmware
- Mini USB iBeacon;
- The max. 60 meters advertising distance
- Ultra-low power consumption chipset nRF51822 with ARM core
- Plug and play;



C3 Mini USB iBeacon 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[™] standard;
- Compatible with all Bluetooth 4.0 (BLE) devices;

No Battery Needed

- No battery needed, powered by USB slot;

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 to 7
- Transmission power range: -30dBm to +4dBm;

Long Range

- The max. Range 40 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

Easy to Deployment

- Plug and play;

CONFIGURABLE PARAMETERS

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| 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 | 7 (4dBm) |
| 0xFFF6 | Change Password | minew123 (Must be 8 characters) |
| 0xFFF7 | Broadcasting Interval | 1(100mS) |
| 0xFFF8 | Serial ID | Random (Unique serial ID for beacon) |
| 0xFFF9 | iBeacon Name | MiniBeacon_ (the maximum 14 characters) |
| OxFFFE | Connection Mode | 0 (connectable, configuration mode) |
| OxFFFF | Soft Reboot | minew123 (it is same as the value of Change Password) |

ELECTRONIC PARAMETERS

| Item | Value | Remarks | |
|----------------------|----------------|-----------------------------------|--|
| Case Color | White, Black | Other colors can be customized | |
| Battery Model | Null | Powered by USB slot | |
| Operation Voltage | 4.5-5.5V | DC | |
| Transmission Circuit | 10.5mA (Max.) | Tested at 0dBm transmission power | |
| Transmission Range | 60 meters | Maximum | |
| Antenna | 50ohm | On board / PCB Antenna | |
| Net Weight | 2.0g | With battery but without package | |
| Size | 18 x 14 x 6 mm | Null | |

TECHNICAL SUPPORT

| ltem | Version | File Name | Updated Date |
|-------------|---------|--|---------------------------------|
| Datasheet | V1.01 | C3_MiniBeacon Datasheet_1.01.pdf | 25 th May, 2015 |
| Instruction | V2.03 | Instructions_MiniBeacon_V2.03.pdf | 25 th May, 2015 |
| SDK | V1.0 | Android Reference Source Code; iOS Reference Source Code; | 28 th February, 2015 |
| APP Tools | V2.0 | iBeaconCFG; iBeaconDFU; | 3 rd March, 2015 |

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

PACKING INFORMATION

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| Details | Вох | Carton |
|--------------|--------------------|-------------------|
| Quantity(C3) | 80pcs per box | 800pcs per carton |
| Net Weight | 0.16Kg | 1.6Kg |
| Gross Weight | 0.40Kg | 4.5Kg |
| Size | 30.5 x 11 x 7.5 cm | 32 x 23 x 40 cm |

APPDENDIX

- 1. J-LINK Programmer Kit;
- 2. Over-the-Air Function;

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.

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 FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates 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 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: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. such modifications could void the user's authority to operate this equipment.

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 is measured RF output power is less than the SAR exclusion threshold value for human head and body . Therefore, SAR test is not necessary.

<END>