Beacon / iBeacon / MiniBeacon

Datasheet V1.0

Model	Description
D15N-W	Signal white (RAL9003) casing, CE&FCC certified module, includes 1pc 85mAh CR2016 coin battery, RoHS

The UFO MiniBeacon D15N is a very popular and modern iBeacon with ARM core chipset nRF51822 and leverage BLE 4.0 technology; it has a nice design case, 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**
- **Included 1pc CR2025 coin battery**
- **The max. 90 meters advertising distance**
- **Ultra-low power consumption chipset nRF51822 with ARM core**
- **Easy to print the logo on the center of top case;**

D15N UFO MiniBeacon

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

- 5 months, with the default settings;
- 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 to 7
- Transmission power range: -30dBm to +4dBm;

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

Accessories

- Key-chain;
- Neck-string;

TURN ON/OFF D15N

1) Please press the centre of D15N and keep holding 3 seconds when you heard a "b" switching sound;

2) Then Blue LED lights on 5 seconds then off, the beacon D15N starts broadcasting;

3) If the Blue LED flashes 5 times then off, the beacon D15N stops broadcasting;

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	3 (-12dBm)
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)

ELECTRONIC PARAMETERS

Item	Value	Remarks
Case Color	white	Other colors can be customized
Battery Model	1 x CR2025	1pc CR2025 coin battery, 85mAh, 3.0V
Operation Voltage	1.8-3.6V	DC
Transmission Circuit	10.5mA (Max.)	Tested at 0dBm transmission power
Transmission Range	30 meters	Maximum
Antenna	50ohm	On board / PCB Antenna
Accessories	Null	Null
Net Weight	7.0g	With battery but without package
Size	Ø35 x 8.2 mm	Null

TECHNICAL SUPPORT

Item	Version	File Name	Updated Date
Datasheet	V1.0	D15N_MiniBeacon Datasheet_1.0.pdf	25th March, 2016
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	BeaconSET(iOS), BeaconCFG(Android)	3rd November, 2015