

Robust Beacon

Model: A4I3 Datasheet V3.0

| Part # | Description |
|----------|--|
| i3-6001A | 204750001, black, waterproof and long range robust beacon, without battery, Bluetooth 5.0, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon and Eddystone simultaneously |
| i3-6005A | 204750005, white, waterproof and long range robust beacon, without battery, Bluetooth 5.0, pre-flashed MiniBeacon Plus software supports broadcasting iBeacon and Eddystone simultaneously |

The Robust Beacon A4I3 is a new generation long range waterproof beacon that loaded Bluetooth 5.0 hardware platform and MiniBeacon Plus intelligence software.

Robust beacon A4I3 advertises standard iBeacon and Eddystone (UID,URL,TLM) simultaneously. The user can configure A4I3 robust beacon via configuration app BeaconSET+ as well.

Moreover, if the special / customization firmware has MESH function, it can work on A4I3 robust beacon hardware smoothly.

FEATURE

- Advertise iBeacon & Eddystone simultaneously
- Unique MAC address (ITU)
- Bluetooth 5.0 chipset nRF52 series
- IP66 Waterproof
- 5 years battery lifetime with default setting
- Replaceable AA battery (default:alkaline)
- The max. 200 meters advertising distance



A4I3 Robust Beacon

APPLICATION

- Asset tracking
- Indoor location
- Activity monitoring
- Inventory tracking

CONFIGURATION TOOL

- BeaconSET+ (IOS & Android);

ACTIVATE A4I3

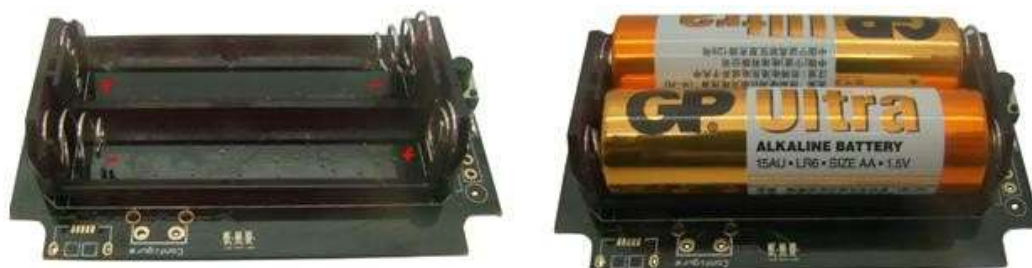
- **A4I3 will advertise the data after inserting the battery as the following instruction of battery assembly**

CERTIFICATION

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

BATTERY ASSEMBLY

- Please prepare 2pcs AA size (LR6) battery;
- **Please do check the polarity of batteries and battery-socket before assembly;**
- Please assemble the battery as the below image;



OPTIONAL BATTERY TYPE

| Battery Type (AA) | Operation temperature | Capacity (single) | Total Capacity (i3) |
|-------------------|-----------------------|-------------------|-----------------------|
| Alkaline | -20 to 55℃ | 2200mAh | 2200mAh |
| Li/FeS2 | -30 to 60℃ | 2800mAh | 5600mAh |

Notes:

1. For the sample order, ASE doesn't ship out i3 robust beacon with battery at default;
2. For the bulk order, ASE would like to ship out i3 robust beacon with battery;
3. The battery type can be selected as different application; it affects the unit price and shipping cost;

ELECTRONIC PARAMETER

| Item | Value | Remarks |
|-----------------------|-----------------|--------------------------------------|
| Case Color | Black, white | Other colors can be customized |
| Battery Model | 2 x AA (LR6) | 2pcs Alkaline battery, 2200mAh, 3.0V |
| Operation Voltage | 1.8-3.9V | DC |
| Transmission Circuit | 5.3mA (Max.) | Tested at 0dBm transmission power |
| Transmission Range | 200 meters | Maximum @ open space |
| Transmission Power | -30dBm to +4dBm | Changeable |
| Broadcasting Interval | 900mS | Default setting, changeable |
| Antenna | 50ohm | On board / PCB Antenna |
| Accessories | Double adhesive | 1pc, high-strength, 3M brand; |
| | Screws | 2pcs screws and 2pcs plastic holders |
| Net Weight | 50.0g | Without battery |
| Size | 72 x 45 x 22MM | Null |

PARAMETER SETTING

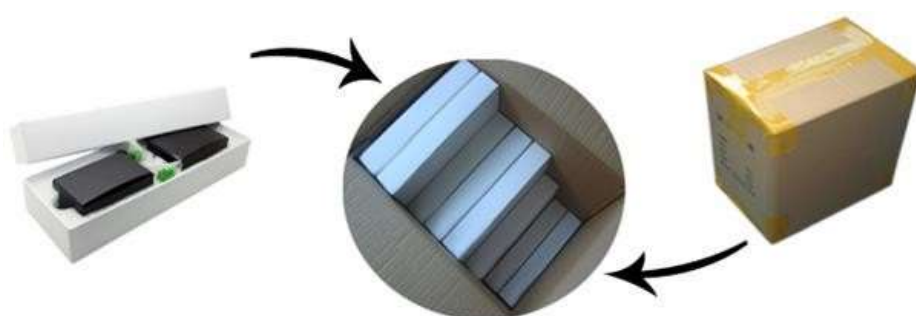
Each robust beacon A4I3 has been pre-configured in the factory before the shipment. Here below is given the main parameters and default settings.

| Type | Item | Default Settings |
|-----------------|-------------------|--|
| iBeacon | UUID (16 bytes) | E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (Proximity) |
| | Major (2 bytes) | 0 |
| | Minor (2 bytes) | 0 |
| Eddystone | Instance ID @UID | random (10 bytes) |
| | Namespace ID @UID | random (6 bytes) |
| | URL | https://www.asedis.it |
| Base Parameters | Measured Power | -59 (0xC5) |
| | Radio Tx power | 6 (0dBm) |
| | Adv. Interval | 9(900mS) |
| | Beacon ID | random, it is MAC address of beacon actually. |
| | Beacon Name | PLUS |
| | Connectable | yes (it is configuration mode) |
| | Password | ase12345 (Allowing only 8 characters) |
| Extra Function | Reset factory | available |
| | Power off | available |
| | Modify password | available |
| | Remove password | available |
| | Update firmware | available |

TECHNICAL DOCUMENT

| Item | Version | File Name | Date |
|-------------|---------|--------------------------------------|---------------------------------|
| Datasheet | V3.0 | UFO Beacon Datasheet | 28 th April, 2018 |
| Instruction | V3.0 | UFO Beacon Configuration Instruction | 5 th May, 2018 |
| SDK | V1.0 | Both iOS and Android | 28 th December, 2017 |

PACKING INFORMATION



* Gift package



*Standard package

| Details | Min. Package | | Carton | |
|--------------|--------------------|----------------|-----------------|----------|
| | Gift | Standard | Gift | Standard |
| Quantity(i3) | 2pcs / pack | 8pcs /box | 80pcs/carton | |
| Net Weight | 100.0g/ pack | 400.0g/ box | 4.2Kg/carton | |
| Gross Weight | 220.0g/ pack | 420.0g/ box | 9.5Kg | 6.0Kg |
| Size | 21.5 x 7.7x 3.5 CM | 32 x 11 x 8 CM | 32 x 23 x 40 CM | |

Firmware Flash

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

Please contact ASE srl 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. ASE team reserves the right to explain all the terms of this datasheet.

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