

# RF-B-AR4

With the stable structure and extremely low power consumption, RF-B-AR4 can play a good role in positioning, logistics tracking, marketing and other fields indoor and outdoor. The temperature & humidity sensor and accelerometer sensor enable a larger range of applications.

RF-B-AR4 Beacon device supports iBeacon, Eddystone (UID, URL, TLM). The widely broadcast type makes it more flexible for a wide range of applications.

Without changing the battery, RF-B-AR4 can reach up to 5-year service life. The replaceable CR2477 battery achieves a longer one.



## Features



### Battery Life

- Replaceable CR2477
- Up to 5 years @ 1 s broadcast interval
- LED will flash once when device turns on
- LED will be flashing when battery level is low
- Real-time battery level notification



### Compatibility

- Supported iOS 7.0+ and Android 4.3+ system
- Compatible with all BLE 4.2 and BLE 5.0 devices



### Device Management

- Over-the-air (OTA) updates
- Reserved J-Link



### Connectable Mode

- Connectable Mode for configuration
- Non-connectable mode for advertising



### Configurable Parameters

- UUID, Major, Minor, Device name, Connection password etc.
- Tx power, advertising interval, RSSI etc.
- APP: Beaconsetting for iOS and Android



### Transmission Range

- 8 adjustable TX power levels
- Tx power range: -20 dBm ~ +4 dBm
- Transmission range: Up to 100 meters in an open air



### Security

- Authentication key: 6 characters
- Optional encryption advertising data

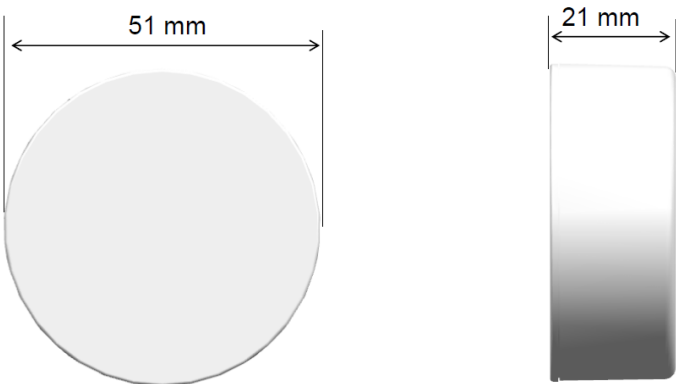


### Mounting

- 3M adhesive for mounting to wall
- Waterproof level: IP65

Mechanical

|                                 |  |
|---------------------------------|--|
| Dimensions                      | 51.0 mm ( φ ) × 21.0 mm<br>(Thickness) |
| Weight                          | 30.3 g                                 |
| Mounting Options                | 3M                                     |
| Enclosure                       | ABS Plastic                            |
| Temperature and Humidity Sensor | SHT20                                  |
| Accelerometer Sensor            | LIS3DH                                 |

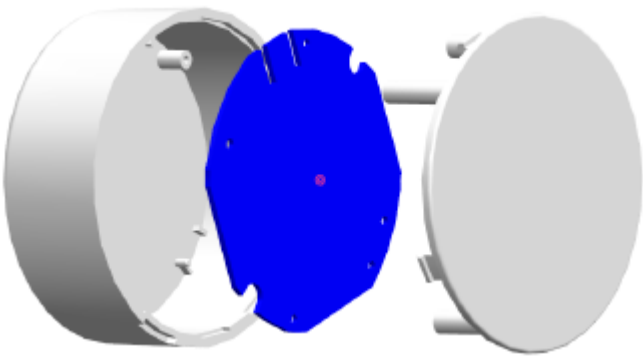


Power

|                  |                                 |
|------------------|---------------------------------|
| Battery          | CR2477                          |
| Battery Capacity | 1000 mAh                        |
| Battery Life     | 5 year @ 1 s Broadcast interval |

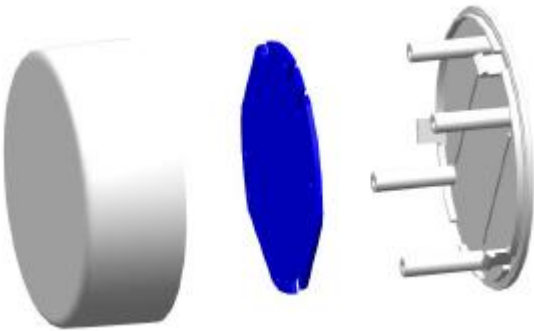
Enviromnent

|                  |   |
|------------------|---|
| Operating Temp.  | -40 °C ~ +50 °C<br>Affected by the enclosure  |
| Storage Temp.    | -40 °C ~ +100 °C<br>Affected by the enclosure |
| Waterproof Level | IP65  |



BLE

|                    |                                 |
|--------------------|---------------------------------|
| Protocol Version   | 5.0                             |
| Frequency          | 2402 MHz ~ 2480 MHz             |
| Tx Power           | -20 dBm ~ +4 dBm                |
| Broadcast Interval | Configurable, 200 ms ~ 10240 ms |
| Rx Sensitivity     | -95 dBm @ 1 Mb/s                |
| Operating Voltage  | 1.1 V ~ 3.3 V                   |
| Advertising Type   | iBeacon, Eddystone              |
| Antenna            | PCB                             |
| Range              | 50 m @ 0 dBm in an open air     |
| OTA Updates        | Yes                             |



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