RF-star
信 驰 达

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 service life.

Features

Battery Life

- Replaceable CR2477
- Up to 5 years @ 1 s broadcast interval
- LED will flash once when the device turns on
- LED will flash twice when the device turns off
- 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 and RF-star Beacon for iOS and Android

Transmission Range

- 8 adjustable TX power levels
- Tx power range: -20 dBm ~ +4 dBm
- Transmission range: Up to 50 meters in an open-air

Security

- Authentication key: 6 characters
- Optional encryption advertising data

Mounting

- 3M adhesive for mounting to wall
- Waterproof level: IP64

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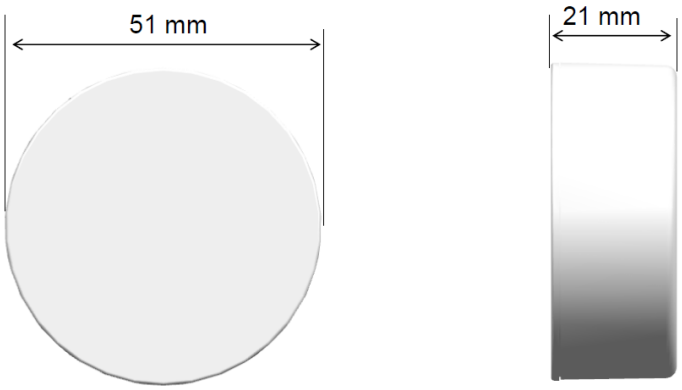
Mechanical

Dimensions	51.0 mm (φ) × 21.0 mm (Thickness)
Weight	29.9 g
Mounting Options	3M
Enclosure	ABS Plastic
Temperature and Humidity Sensor	SHT20
Accelerometer Sensor	LIS3DH

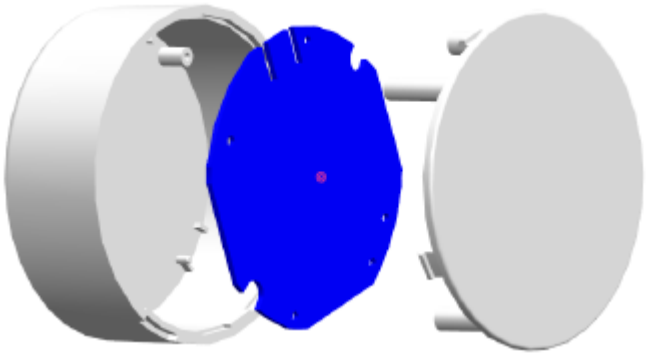


Power

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

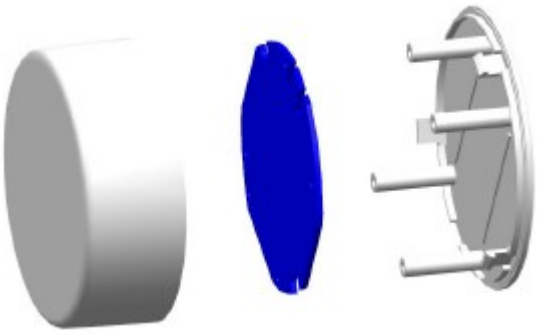
Environment

Operating Temp.	-20 ℃ ~ +60 ℃ Affected by the enclosure
Storage Temp.	-40 ℃ ~ +85 ℃ Affected by the enclosure
Waterproof Level	IP64



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 Mbit/s
Operating Voltage	1.7 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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