

# RF-B-AR1

With the stable structure and extremely low power consumption, RF-B-AR1 can play a good role in positioning, logistics tracking, marketing and other fields indoor and outdoor.

RF-B-AR1 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-AR1 can reach up to 10-year service life. The replaceable CR2477 battery achieves a longer service life.



## Features



### Battery Life

- Replaceable CR2477
- Up to 10 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 Pins



### 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: Beaconssetting 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
- Waterproof level: IP64

**Mechanical**

Dimensions	51.0 mm ( $\phi$ ) × 21.0 mm (Thickness)
Weight	29.6 g
Mounting Options	3M
Enclosure	ABS Plastic

**Power**

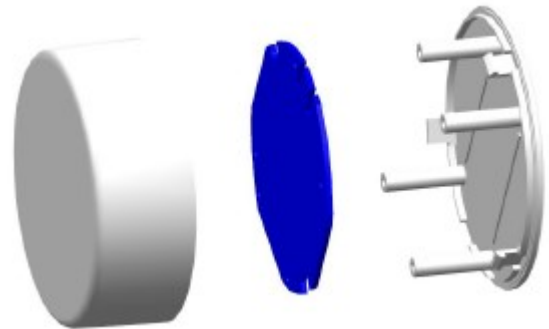
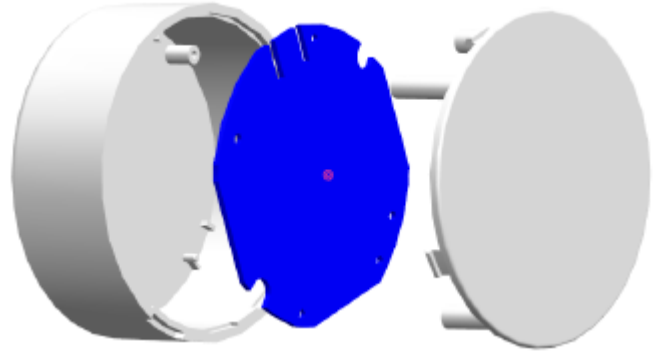
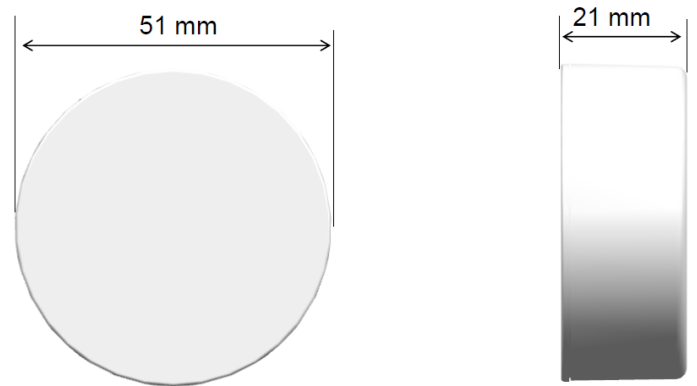
Battery	CR2477
Battery Capacity	1000 mAh
Battery Life	10 year @ 1 s Broadcast interval

**Environment**

Operating Temp.	-20 °C ~ +60 °C Affected by the enclosure
Storage Temp.	-40 °C ~ +85 °C 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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