

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



Features



Battery Life

- Replaceable CR2477
- Up to 10 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: Beaconssetting 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

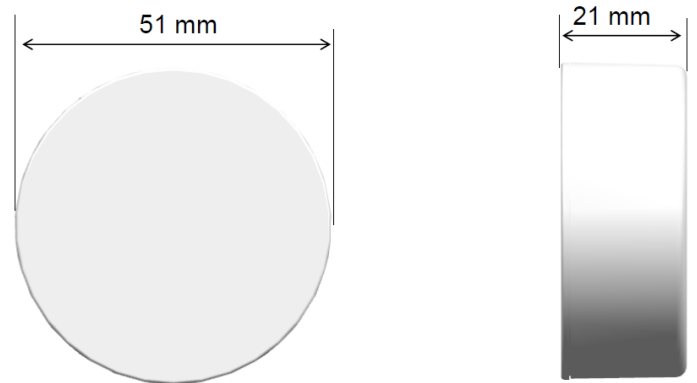


Mounting

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

Mechanical

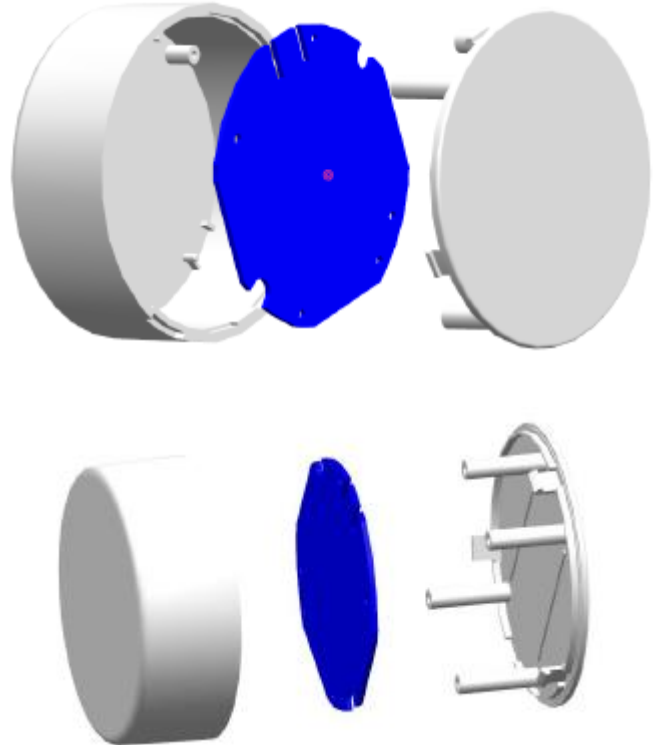
Dimensions	51.0 mm (ϕ) × 21.0 mm (Thickness)
Weight	30.3 g
Mounting Options	3M
Enclosure	ABS Plastic

**Power**

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

Environment

Operating Temp.	-40 °C ~ +50 °C Affected by the enclosure
Storage Temp.	-40 °C ~ +100 °C 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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