

RF-B-SR1

With the stable structure and extremely low power consumption, RF-B-SR1 can play a good role in positioning, logistics tracking, marketing and other fields indoor and outdoor.

RF-B-SR1 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-SR1 can reach up to 5.9-year service life. The replaceable CR2477 battery achieves a longer service life.



Features



Battery Life

- Replaceable CR2477
- Up to 5.9 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: Beaconsetting and RF-star Beacon for iOS and Android



Transmission Range

- 8 adjustable TX power levels
- Tx power range: -20 dBm ~ +6 dBm
- Transmission range: Up to 70 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 (φ) × 21.0 mm (Thickness)
Weight	29.1 g
Mounting Options	3M
Enclosure	ABS Plastic

Power

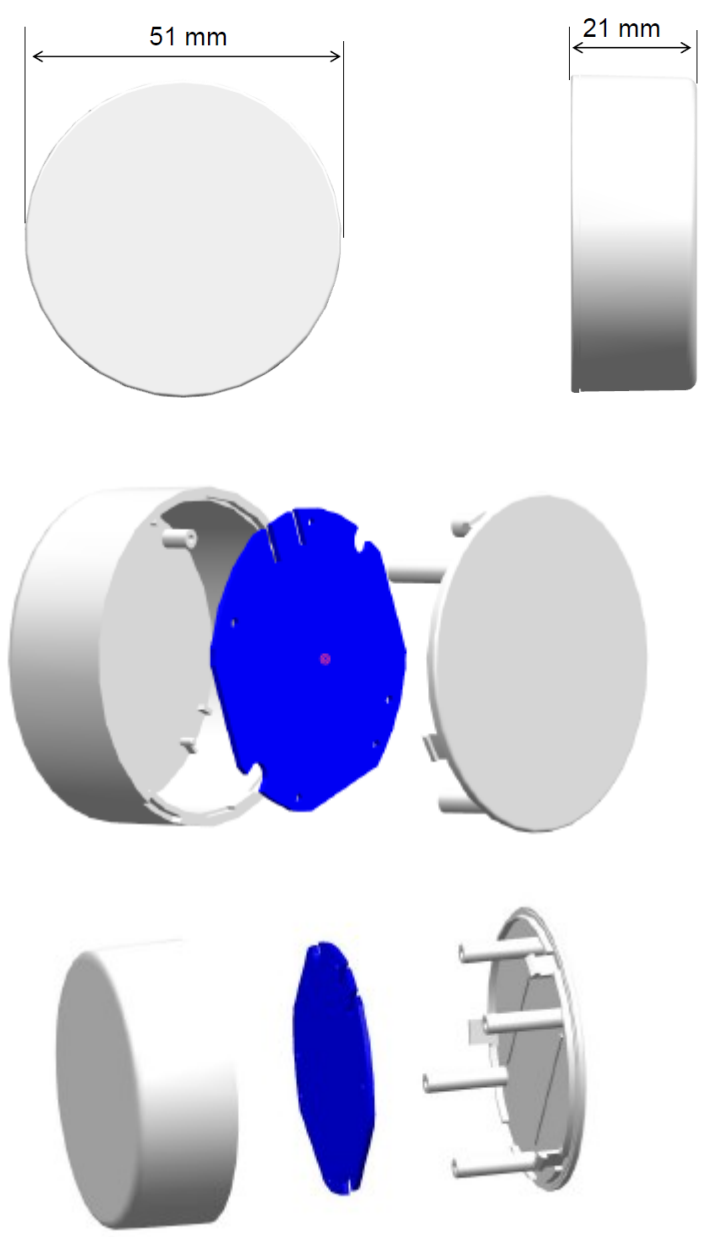
Battery	CR2477
Battery Capacity	1000 mAh
Battery Life	5.9 year @ 1 s Broadcast interval

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	5.3
Frequency	2402 MHz ~ 2480 MHz
Tx Power	-20 dBm ~ +6 dBm
Broadcast Interval	Configurable, 200 ms ~ 10240 ms
Rx Sensitivity	-98.9 dBm @ 1 Mbit/s
Operating Voltage	1.71 V ~ 3.8 V
Advertising Type	iBeacon, Eddystone
Antenna	PCB
Range	70 m @ 0 dBm in an open-air
OTA Updates	Yes



[Shenzhen RF-star Technology Co., Ltd.](#)
sales@szrfstar.com, sunny@szrfstar.com

Shenzhen HQ: Room 502, Podium Building No. 12, Shenzhen Bay Science and Technology Ecological Park, Nanshan District, Shenzhen, Guangdong, China, 518063
Chengdu Branch: N2-1604, Global Center, North No. 1700, Tianfu Avenue, Hi-Tech District, Chengdu, Sichuan, China, 610095

All rights reserved. Those responsible for unauthorized reproduction will be prosecuted.