URT270-C Wi-Fi Tag User Manual

V1.3.5

Suzhou URadio Systems Co., Ltd.

Contents

Product Information

URadio Systems' innovated Wi-Fi RFID is an active RFID system based on the widely adopted Wireless LAN (or called Wi-Fi). It supports the industry standard communication protocol IEEE 802.11b. Wi-Fi RFID system is characterized by long range, accurate reading, low total cost of ownership, and easy use. The unique capability of Wi-Fi RFID system is to track the precise location of personnel and assets. URT270-C Wi-Fi Tag has a unique 48 bit ID, associated with person or item. The tag periodically broadcast the ID and data to surrounding Access Points (APs). URT270-C Wi-Fi Tags work with majority of enterprise APs on the market.
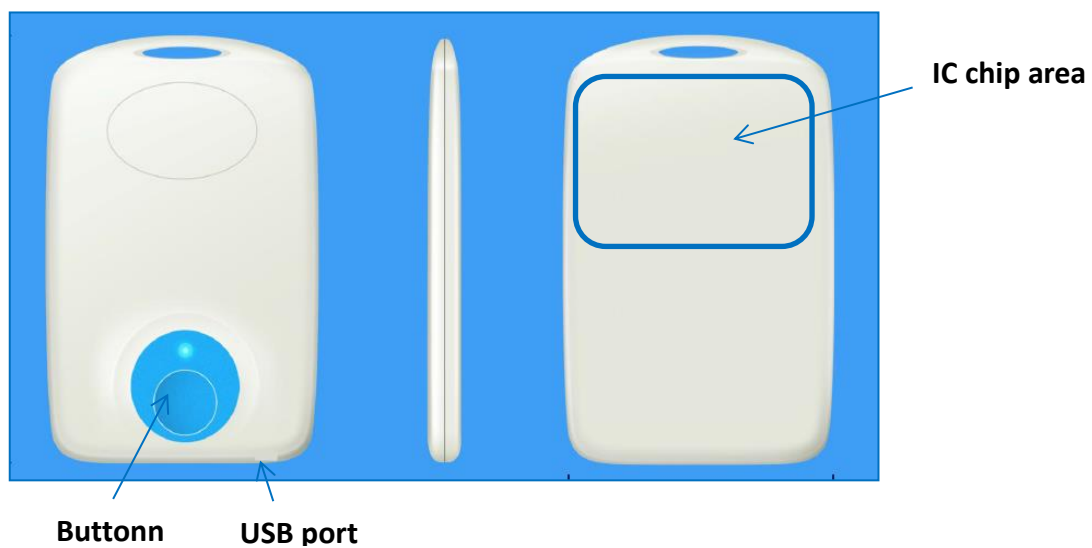
Models

Model	Name	Description
☐ **URT270-C**	Low Power Wi-Fi Tag with 125KHz	Low power consumption, Low Frequency 125KHz to wake up within 1-6 meter range
☐ **URT270-CB**	Low Power Wi-Fi with Blue Tooth	Low power consumption, scan BLE iBeacon RSSIs
☐ **URT270-CF**	Low Power Wi-Fi Tag with 125KHz and Fall Detection	Low power consumption, Low Frequency 125KHz to wake up within 1-6 meter range, support fall detection function
☐ **URT270-CS**	Low Power Wi-Fi Tag	Low power consumption
☐ **URT270-CA**	Standard Wi-Fi Tag	Normal power consumption

Specifications

No	Name	Parameters
1	Frequency	2.4G Hz
2	Modulation	OOK, GFSK
3	Max Distance	150 m
4	Voltage	3.1~4.2v
5	Size	86*56*8.5mm
6	Weight	~40g

7	Color	White
8	Hang up	Yes
9	Push Button	Push for 2 seconds to trigger alert
10	Batter	Rechargeable
11	I/O	micro USB
12	Certification	CE/RoHS
Options		
13	IC chip	Optional Embedded IC chip
14	Motion Sensor	Optional
15	Fall Detection	For URT270-CF
16	125KHz wake up function	For URT270-C and URT270-CF
17	Scan iBeacon	For URT270-CB

Picture

IC chip area

Buttonn   USB port

Operation

1. **Usage**

The tag is in the sleeping mode by defaults. In order to wake up the tag, please push the button for over 10 seconds. The red LED is on then flashes, which means the tag is in working mode.

In order to trigger push button alert, push the button for over 2 seconds.

2. Recharge

Use Android phone charger and plug micro USB cable into the tag's USB port, the green LED on means the battery is in charge, the green LED off means the charge is over. It takes about 4 hours to fully charge the battery. The tag should be recharged at lease every 6 months. When the tag has low battery voltage, it flashes red LED and broadcasts low battery alerts. Please recharge it within 24 hours.

3. Signal

Wi-Fi tag periodically broadcasts the signal which contains 48-bit ID and data. The data may include push button alert, low battery alert, motion alert, fall alert125KHz antenna ID, iBeacon signal strengths etc. APs receive the tag signals and report the tag's signal strength, ID and data to a server.

Important Notes:

a) Recharge the battery within 24 hours after the tag has low battery alert

b) Recharge the battery at least every 6 months

c) Tag is not water-proof

d) Tag comes with 1 year warranty.

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