

Low Frequency Exciter URW9100

User Manual

V1.1.3

Suzhou URadio Systems Co., Ltd.

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INFORMATION

Thank you for purchasing URW9100 Low Frequency Exciter from Uradio Systems Co., Ltd. (“Uradio”). This document describes URW9100 Exciter specification and safety information. Read, understand, and follow all safety information contained in these instructions before use of the URadio tag. Retain this manual for future reference.

DESCRIPTION

URW9100 Exciter is engineered to emit spherical, low-power electromagnetic fields (125 KHz) of up to 6 m (20 ft) in radius. Each Exciter supports up to 6 antennas and each antenna emits signal with unique ID. These harmless low-frequency fields are user-adjustable, so that they can be tuned to precisely cover most indoor doorways or entrance/exit areas. So, whenever an individual or asset bearing an active dual frequency Wi-Fi Tag (URT220-A) enters the electromagnetic field generated by the exciter, the mobile Wi-Fi Tag is prompted to transmit its pre-programmed data messages (including the exciter’s unique ID). The data message is in IEEE 802.11b format so that Wi-Fi Access Points (APs) is able to receive data messages and forward Wi-Fi Tag’s unique MAC address and Exciter’s antenna ID to the server software. As a result, the application software tells exactly which tag enters or exits which area. URW9100 Exciter is deployable as a standalone device. Unlike other RFID based Exciter, URW9100 Exciter triggers tags to send Wi-Fi signal. The use of worldwide standard Wi-Fi network avoids the deployment of private RFID devices, which significantly reduces the total cost of ownership.

APPLICATIONS

Staff identification

Assisted living facilities

Entrance- and exit-based alarming

Asset management and loss prevention

SPECIFICATIONS

No	Item	Parameters
1	Working Frequency	125KHz \pm 1KHz
2	Effective radius	1~5.5 meters
3	Transmit Rate	1600bps
4	Modulation	OOK
5	Coding	Manchester
6	Working Voltage	DC12V \pm 1V
7	Working Current	20~150mA
8	Working Temperature	-20 $^{\circ}$ C ~ +70 $^{\circ}$ C
9	Storage Temperature	-40 $^{\circ}$ C ~ +85 $^{\circ}$ C
10	Size	16cm X 13cm X 6cm
11	Weight	450g

INSTALLATION

URW9100 Exciter is easily surface-mounted to solid wall or ceiling. Then each antenna is mounted to wall or ceiling. Antenna is connected with cable up to 20 meters. The effective covering area radius is depended on antenna size. We offer 3 kinds of sizes: 1) Large: 5.5 meters; 2) Medium: 3 meters; 3) Small: 1.5 meters.

Product Image



WARRANTY

1. Under normal condition and proper usage, the device has one-year warranty since the date of purchase.
2. After one year warranty and within three years since the date of purchase, a defected device may be returned for repair. If the device is repairable, parts cost will be charged.
3. A device will not be covered by warranty if the device is not used properly, i.e., the device outside, or inside, or the device circuit or board has visual damage, water marker, loosen parts.

CONTACT INFORMATION

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