Boundary Manager
User manual

Table of Contents

Dear customer:

Hello!

Thanks for choosing Enjoyor technology products and services.   To ensure your satisfied use, please read the user manual carefully before using this product, And please keep the manual properly for future reference.

 Whenever you need our service and support, Please be freely to let us know.

Before using

- ➢ **This product Must be used by medical personnel who had received training by the manufacturer.**
- ➢ **If there are any problems when you using the product, please contact with our technician.**
- ➢ **Our company could provide the material for the devices which could be repaired.**

Basic Information

Registrant / Manufacturer/ After-sales service unit,

   Zhejiang Zhier Informatin Technology Co., Ltd.

Address,

2F, Building 4, No. 2 West Park Road 8, West Lake Science and Technology Park, Sandun Town, Xihu District, Hangzhou

Production address,

2F, Building 4, No. 2 West Park Road 8, West Lake Science and Technology Park, Sandun Town, Xihu District, Hangzhou

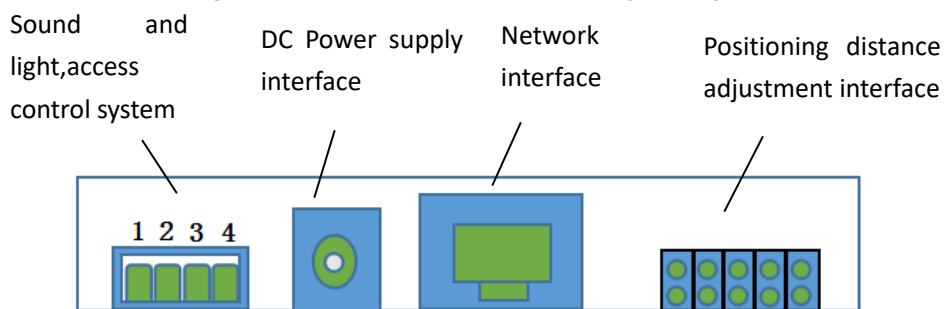**Telephone/ Fax,**

(86)0571-8993 0386

The company has all the right to interpret this manual

1. Product Briefly introduction

Boundary manager is mainly used for the exit management alarm of personnel and asset locate system. And it will send positioning frequency of 125KHZ which is a kind of low-frequency signal. When someone and assets pass through the exit without permission, the exit will send an alarm message and upload it to the server. The front side of the boundary manager show in Figure1.

Figure1 The front side of the boundary manager

Figure2 Wiring diagram of Boundary manager

2. Specifications

1. Working Frequency: 433MHz
2. Signal modulation method: GFSK
3. Receiving sensitivity: -100dBm
4. Monitoring distance: 2m ～ 5m
5. Atmospheric pressure: 86KPa-106KPa
6. Working temperature: -10 ℃ ～ ＋85 ℃
7. Working humidity: 10% ～ 90% RH without condensation
8. Power supply mode: POE power supply 48VDC / DC12V
9. Size: length * width * height = 187mm * 187mm * 31mm

3. Installation

The positioning hole distance of the boundary manager is rectangular 82mmx141mm. The boundary manager is powered by POE. If POE is used, the communication gateway needs to support the POE function. The boundary manager needs to test the communication distance to determine the ideal installation position. It can also be installed against the wall. Notice that there must be no metal shields around the installation, otherwise it will affect the wireless reception effect. After the power is turned on, the working green light flashes at intervals.

Optional wiring installation of acousto-optic access control, as shown in Figure 2 interface. 1 port is connected to the red positive pole of sound and light, and 2 port is connected to the black negative pole of sound and light. 3 port is connected to the negative pole of the access control, and 4 port are connected to the positive pole of the access control. The DC power connector is left unused. The network interface is connected to the POE switch. At the same time, the positioning distance adjustment interface is an optional distance, the side closest to the network port is the farthest distance, and the rear decreases in turn.

4. Instructions

After the boundary manager is installed and powered on, you could check whether the device is normal through the work indicator (as shown in Figure 1). During normal operation, the green light flashes once every 1 second,and the red light flashes once to indicate that a frame of correct RFID information has been received.

Positioning function, When there are assets or personnel passing through the area managed by the border manager, the positioning signal will be sent out inside the device. And when the device senses the positioning signal from tag , the positioning information will be uploaded.

5. Precaution

1. It is strictly forbidden to install the equipment in an environment with high temperature, dust, harmful gas, flammable, explosive, susceptible to electromagnetic interference, unstable voltage and large vibration.

2. The installation location need to be as concealed as possible, so as not to hinder daily work and life.

3. The POE power supply is DC48V.

6. Storage and transportation

1.Avoid splashing rain and direct sunlight.

2. Storage temperature (-40 ℃ -80 ℃), relative humidity (5% -95%).

3. Avoid corrosive gas or salty air.

4. Avoid strong electric or magnetic fields.

5. There is no strong vibration and impact in the storage place.

6. The packing box is greater than 10cm from the ground and 50cm from the wall.

7. Basic Troubleshooting

Table1 Basic troubleshooting

SN	Problem	Solution
1	Boundary manager indicator does not light	1. Check whether the network cable interface is well connected. 2.Check whether the switch is a POE-powered model or whether the POE power supply is normal, and whether commands are required to enable the POE function.

8. Package list

Table2, Package list

SN	Name	Product	Quantity
1	Set of boundary manager	Boundary manager	1
		User manual	1

CE Caution:

Use the Product in the environment with the temperature Between -10℃ and 40℃; Otherwise, it may damage your product. Products can only be used below 2000m altitude

For the following equipment:

Product Name: Border Manager

Brand Name: --

Model No.: E-RL100

Zhejiang Zhier Information Technology Co., Ltd.

E-mail: qiliping@enjoyor.net

This product is intended for sale and application in a business environment.

RED Article 10 2

-This product can be used across EU member states

RED Article 10 10

-The product is class 1 product, No restrictions

Frequency Range: 433.8MHz(Receiver Only)

Frequency Range: 125kHz

Radiated H-Field: 64.54dBuA/m(@3m)

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.