HF Gate Device

Model: RR-CH-IRCON-ACC

ITEM	VALUE
Dimensions (HxWxD) (mm)	1500 x 540 x35
Housing	Panel：ABS shell Base：Iron box
Color	Light gray
Weight（1 panel）	20kg

ITEM	VALUE
Power supply (V/Hz)	220 / 50
Current (mA)	90
Alarm	Light and buzzer
Moving direction judgment	Accurate
Operating temperature (℃)	-10 ~ +60
storage temperature (℃)	-25 ~ +70

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GENERAL DESCRIPTION

RoyalRay HF Gate Device “RR-CH-IRCON-ACC” are designed for high performance channel management applications. The series support fast tag anti-collision and read/write operations (include EAS function of NXP tag). Equipped with main/auxiliary channel antenna, 4 line infrared motion detection sensor, control board and standard RS232, RS485 serial communication ports and RJ45 (TCP/IP) network port, the series are top choice for open mass flow RFID applications, such as: Conference Attendance, Access Control, Library Entrance Control, Process Control, etc.

FEATURES

- Self-intellectual property;
- Support ISO/IEC15693, NXP EPC, NXP UID, HF EPC protocol tags;
- Advanced anti-collision algorithm, high identification rate;
- Built-in TX/RX antenna and channel width up to 120cm*;
- Built-in 4 line infrared motion detection sensor;
- Low power dissipation design with RF power over 4W;
- The storage capacity of gate is 28600 messages, and so is white list (authority card);
- Configuration various alarm modes;
- Support NXP tag/label EAS function;
- Support RS232, RS485 and RJ45 (TCP/IP) network interface;
- Support plug-in camera, large screen display/ television to realize control and management in a more intuitive way.

**Effective distance depends on protocol, tag and working environment.*

COMPONENTS

RR-CH-IRCON-ACC comprises main antenna, auxiliary antenna. Main antenna base box is integrated with high RF power tag reader, power splitter, 4 line infrared receiver parts, controller board and interface board. Auxiliary antenna base box is integrated with power source, 4 line infrared transmitter parts and interface board.
Other accessories include AC power cable, RF cable connecting main/auxiliary antenna, DC power cable connecting main/auxiliary antenna and RS232 communication cable.

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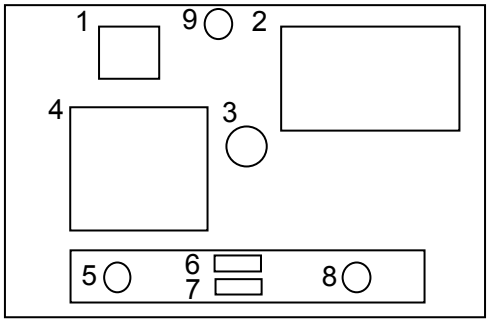
WIRING INFORMATION

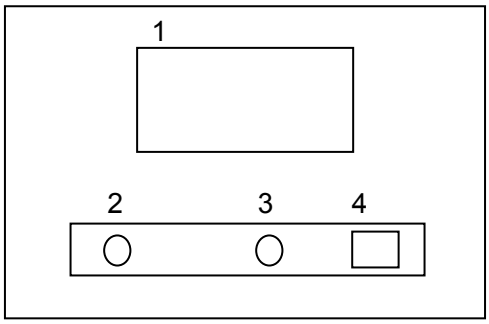
Main antenna base box:



1：Power splitter
2：High RF power reader RR9201T
3：Buzzer
4：Controller board
5：Main/auxiliary antenna RF cable socket
6：Serial port IF1
7：Serial port IF2
8：Main/auxiliary antenna DC power cable socket
9：LED indicator

** Components location may be slightly adjusted*

Auxiliary antenna base box:



1: AC/DC power source
2: Main/Auxiliary antenna RF cable socket
3: Main/Auxiliary antenna DC power cable socket
4: AC power socket

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APPLICATION INFORMATION

Serial communication setting: 38400bps, E, 8, 1

Serial port IF1 and IF2 DB9 socket definition:

PIN	SYMBOL	COMMENT
1	NC	Reserved
2	TXD	RS232 data output (RS485 R-)
3	RXD	RS232 data input (RS485 R+)
4	NC	Reserved
5	GND	Ground
6	NC	Reserved
7	NC	Reserved
8	NC	Reserved
9	NC	Reserved

Please refer to RR-CH-IRCON-ACC user's manual for communication protocol details.

Remark:

1. Specifications are subject to change, please pay attention to our latest one.

2. Shenzhen RoyalRay Science and Technology Co., Ltd. reserves the right to the final interpretation of the above terms.

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