

HF Gate Device



Model: RR-CH-IRCON-ES+EAS(clear)

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 (°C)	-10 ~ +60
storage temperature (°C)	-25 ~ +70

GENERAL DESCRIPTION

RoyalRay HF Gate Device “RR-CH-IRCON-ES+EAS(clear)” 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 30000 messages;
- 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.

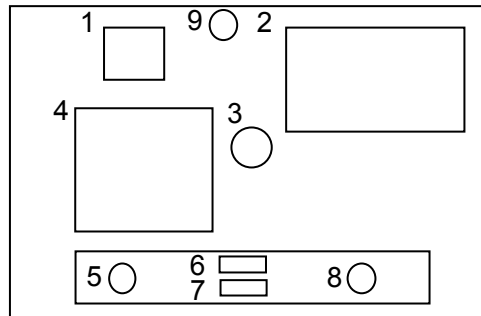
**Effective distance depends on protocol, tag and working environment.*

COMPONENTS

RR-CH-IRCON-ES+EAS (clear) 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.

WIRING INFORMATION

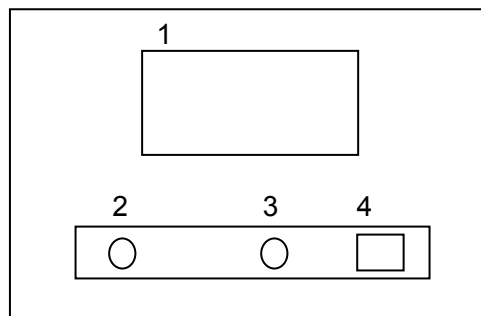
Main antenna base box:



- 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

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-ES+EAS 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.*