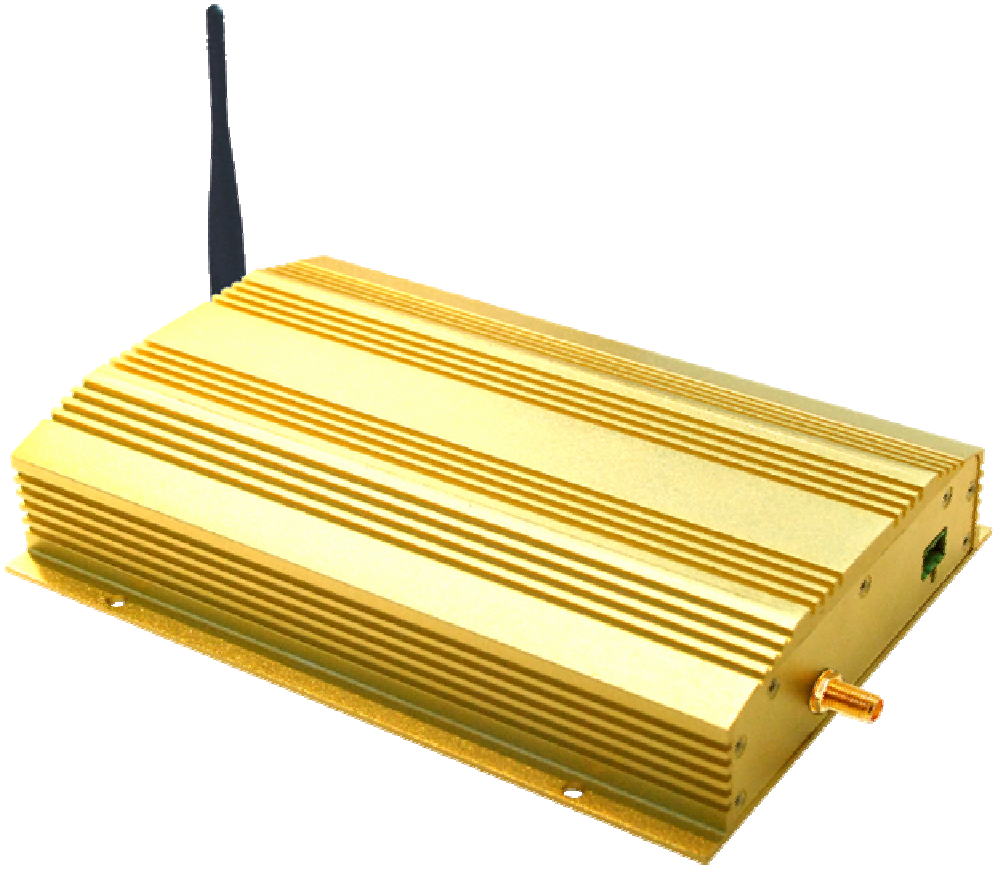
HF High Power Reader



Model：RR9291TWIFI

Size：215mmx135mmx39mm

Weight：1200g

Shenzhen RoyalRay Science and Technology Co., Ltd. www.rr-rfid.com
Add：Rm.116，Luohu Science & Technology Bldg., No.85 Taining Rd., Shenzhen, P.R.C.
Tel: +86 755 25531562 25636705 Fax: +86 755 25531562 E-Mail: market@rr-rfid.com

GENERAL DESCRIPTION

RoyalRay HF high power tag readers RR9291TWIFI is designed upon fully self-intellectual property. Based on proprietary efficient anti-collision algorithm, the series features excellent tag read/write operation performance with high identification rate. The series can be widely applied in many RFID application systems such as Logistics, Personnel Identification, Conference Attendance, Access Control, Anti-counterfeit, Jewelry Management, Self-service of Laundry and Industrial Process Control.

FEATURES

- Self-intellectual property;
- Support ISO/IEC15693, ISO18000-3 protocol tags;
- RF output power over 4W;
- Advanced anti-collision algorithm, high identification rate, typical tag process speed is over 80 tags/s;
- Support standard 50ohm RFID antenna with effective distance up to 90cm*;
- Antenna open/short circuit tolerant;
- Support Scan-mode①;
- Support Transparent Command operation②;
- Support addressable multiple antenna ports;
- Support DPPM/WPPM tag-parsing mode③;
- Support reader network;
- Low power dissipation design;
- Provide DLL and Demonstration Software Source code to facilitate further development.

①Scan-mode: It refers to reader's automatic working mode.

②Transparent Command Operation: It is an advanced feature designed to support tag's future functions and different chip vendors' customized tag functions.

③DPPM/WPPM Tag-parsing Mode: DPPM tag-parsing mode means depth-first parsing pattern and WPPM means breadth-first parsing pattern. They are different methods of decoding multiple tags.

INTERFACE DESCRIPTION

Top View

1. Power Supply Socket J1

No.	SYMBOL	COMMENT
J1-1	PWR	+11.6~15V
J1-2	GND	Ground

Shenzhen RoyalRay Science and Technology Co., Ltd. www.rr-rfid.com
Add：Rm.116，Luohu Science & Technology Bldg., No.85 Taining Rd., Shenzhen, P.R.C.
Tel: +86 755 25531562 25636705 Fax: +86 755 25531562 E-Mail: market@rr-rfid.com

2. SMA Antenna Socket J2
3. Communication Socket J3

Standard DB9 Female Socket to be directly connected to the host and to configure the WiFi parameters.

No.	SYMBOL	COMMENT
1	NC	Reserved
2	TXD	RS232 serial data output
3	RXD	RS232 serial data input
4	NC	Reserved
5	GND	Ground
6	NC	Reserved
7	NC	Reserved
8	WRXD	WiFi configuration data output (RS232 level)
9	WRXD	WiFi configuration data input (RS232 level)

4. WIFI Antenna Socket J4

CHARACTERISTICS

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T_{OPR}	-20 ~ +65	℃
Storage Temp.	T_{STR}	-25 ~ +80	℃

- Electrical and Mechanical Specification

Under T_A＝25℃，VCC＝+12.6V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	11.6	12.6	15	V
Current Dissipation	I_C		0.8	1.2	A
Frequency	F_{REQ}		13.56		MHz
Effective Distance*	DIS	0	900	1000	mm

**Effective distance depends on RF output power, antenna, tag and working environment.*

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.

Shenzhen RoyalRay Science and Technology Co., Ltd. **www.rr-rfid.com**
Add：Rm.116，Luohu Science & Technology Bldg., No.85 Taining Rd., Shenzhen, P.R.C.
Tel: +86 755 25531562 25636705 **Fax: +86 755 25531562** **E-Mail: market@rr-rfid.com**