

HF High Power Reader



Model: RR9091TWIFI

Size: 116mmx104mmx27mm

Weight: 220g

GENERAL DESCRIPTION

RoyalRay HF medium power tag readers RR9091TWIFI 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 not only have been applied successfully to Logistics, Personnel Identification, Conference Attendance, Access Control, Anti-counterfeit and Industrial Production Process Control, but also play an active role in Library RFID Intelligent Management, Self-service Library, and Entertainment Industry, etc.

FEATURES:

- Self-intellectual property;
- Support ISO/IEC15693, ISO18000-3 protocol tags;
- RF output power over 1W;
- Advanced anti-collision algorithm, high identification rate, typical tag process speed is over 80tags/s;
- Support standard 50ohm RFID antenna with effective distance up to 70cm*;
- Support Scan-mode^①;
- Support Transparent Command operation^②;
- Support addressable multiple antenna ports;
- Support DPPM/WPPM tag-parsing mode^③;
- Support reader network;
- Small outline;
- 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

Standard DC power supply socket.

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)

CHARACTERISTICS

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
G_IN1, G_OUT1, G_OUT2 I/O Voltage	V _{IO}	7	V
Operating Temp.	T _{OPR}	-20 ~ +65	°C
Storage Temp.	T _{STR}	-25 ~ +80	°C

- Electrical and Mechanical Specification

Under T_A=25°C, VCC=+12V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	11.5	12	15	V
Current Dissipation	I _C		350	450	mA
Frequency	F _{REQ}		13.56		MHz
Effective Distance*	DIS	0	700	850	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.

Page 3, Total 3