

# UHF RFID Integrated Reader



**Model: RRU1861-12dbi**

**Size: 445mmx445mmx55mm**

**Weight: 2600g**

## GENERAL DESCRIPTION

RRU1861-12dbi is a high performance UHF RFID integrated reader. It is designed upon fully self-intellectual property. Based on proprietary efficient digital signal processing algorithm, it supports fast tag read/write operation with high identification rate. It can be widely applied in many RFID application systems such as logistics, access control, and anti-counterfeit and industrial production process control system.

## FEATURES

- Self-intellectual property;
- Support ISO18000-6B, ISO18000-6C(EPC C1G2) protocol tag;
- 902~928MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm(adjustable);
- 12dbi antenna optional with effect distance more than 10m<sup>\*</sup>;
- Support auto-running, interactive and trigger-activating work mode;
- Low power dissipation with single +9 DC power supply;
- Support RS232, RS485, Wiegand interface;
- Provide DLL and Demonstration Software Source code to facilitate further development.

## CHARACTERISTICS

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T <sub>OPR</sub>	-10~+60	°C
Storage Temp.	T <sub>STR</sub>	-25~+80	°C

- Electrical and Mechanical Specification

Under T<sub>A</sub>=25°C, VCC=+9V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	I <sub>C</sub>		350	650	mA
Frequency	F <sub>REQ</sub>	902		928	MHz
Effective Distance	DIS	800	1000		cm

## INTERFACE

ITEM	COMMENT
Red	+9V
Black	GND
Yellow	Wiegand DATA0
Blue	Wiegand DATA1
Purple	RS485 R+
Orange	RS485 R-
Brown	GND
White	RS232 RXD
Green	RS232 TXD
Grey	Trigger input (TTL level)

\* Effective distance depends on antenna, tag and environment.

*Remark:*

1. Specifications are subject to change, please pay attention to our latest one.
2. Shenzhen RoyalRay Science and Technology Co., Ltd. reserve the right to the final interpretation of the above terms.