

UHF RFID Integrated Reader



Model: RYU18-8dbi(US)

Size: 235mmx235mmx57mm

Weight: 900g

GENERAL DESCRIPTION

RYU18-8dbi(US) 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, Anti-counterfeit and Industrial Production Process Control System.

FEATURES

- Self-intellectual property;
- Support ISO18000-6B, ISO18000-6C (EPC C1G2) protocol tag;
- 860~868MHz, 902~928MHz frequency band (frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm (adjustable);
- 8dbi antenna optional with effect distance up to 4~6m*;
- Support auto-running, interactive and trigger-activating work mode;
- Low power dissipation with single +9 DC power supply; POE is optional;
- Support RS232, RS485, Wiegand interface with optional RJ45(TCP/IP), WiFi;
- Provide DLL and Demonstration Software Source code to facilitate further development.

* Effective distance depends on antenna, tag and environment.

CHARACTERISTICS

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T _{OPR}	-10~+60	°C
Storage Temp.	T _{STR}	-25~+80	°C

- Electrical and Mechanical Specification

Under T_A=25°C, VCC=+9V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	I _C		350	650	mA
Frequency	F _{REQ}	860	860~868 902~928	928	MHz
Effective Distance*	DIS	400	600		cm

* Effective distance depends on antenna, tag and environment.

INTERFACE

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

Remark:

- 1. Specifications are subject to change, please pay attention to our latest one.*
- 2. RUI YUE RFID Co., Ltd. reserves the right to the final interpretation of the above terms.*