

UHF RFID Integrated Reader



Model: RYU-12dbi

Size: 445mmx445mmx55mm

Weight: 2600g

GENERAL DESCRIPTION

RYU-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;
- 860~868MHz, 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 up to 4~15m^{*};
- Support auto-running, interactive and trigger-activating work mode;
- Low power dissipation with single +9 DC power supply;
- Support RS232, RS485, Wiegand, TCP/IP interface;
- 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	800	1500		cm

^{*} Effective distance depends on antenna, tag and environment.

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)