UHF Integrated Reader U881 9dbi

UHF Reader

Model : SID-ITRD-U881-9dbi

Size **:** 290x290x68 mm

General Description

SID-U881-9dbi 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;
- Design based on Impinj R2000 with excellent anti-collision performance;
- Support ISO18000-6B, ISO18000-6C (EPC C1G2) protocol tag;
- 920~925 MHz frequency band (frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 22 dbm;
- Built-in high performance 9dbi circular antenna with effect distance up to 9m;
- one more extendable external antenna port to support 12 dbi external antenna (optional)
- Support auto-running, interactive and trigger-activating work mode;
- Wide power supply voltage input (+9V~+24V);
- Support RS232, RS485, Wiegand, TCPIP interface;
- Support 1 external indicator control port and 2 built-in relays;
- IP67 seal grade housing, ideal for applications in harsh outdoor environment;

* Effective distance depends on antenna, tag and environment.

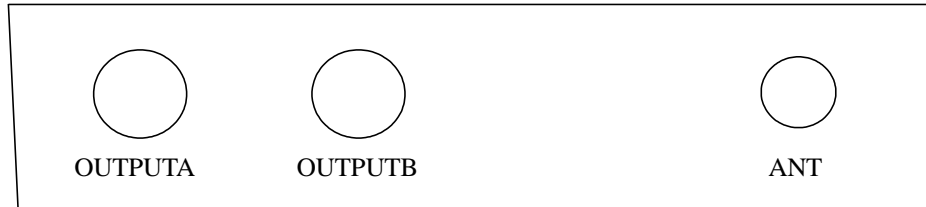## Characteristics

- Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	28	V
Operating Temp.	T_{OPR}	-10~+55	°C
Storage Temp.	T_{STR}	-20~+75	°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	24	V
Current Dissipation	I_C		600	1500	mA
Frequency	F_{REQ}	920		925	MHz

Interface

OUTPUTA   OUTPUTB   ANT

1．Cable of OUTPUTA

Item	Comment
1	+9VDC power interface
2	RS232 DB9 interface
3	TCPIP RJ45 interface

2．Cable of OUTPUTB

Item	Symbol	Comment
Black	TGIN	Trigger input (TTL level)
Brown	VOUT+	+9~+24V output (directly connected to power supply)
Red	WD0	Wiegand DATA0
Orange	CM_RLY2	Relay2 common node
Yellow	NC_RLY1	Relay1 normal-close node
Green	NO_RLY1	Relay1 normal-open node
Blue	R+	RS485 R+
Purple	OUTPUT0	external indicator control
Red Black	GND	GND
Yellow Black	WD1	Wiegand DATA1
Pink	NC_RLY2	Relay2 normal-close node
Grey	NO_RLY2	Relay2 normal-open node
White	CM_RLY1	Relay1 common node
Light Green	R-	RS485 R-

3．TNC external antenna port