Smart Identify
Smart choice you choose

# UHF RFID Fixed Reader

**SID-FXRD-UF2861POE**

## High Performance UHF RFID Fixed Reader

UHF Fix Reader

**Model : UF2861-POE**

**Size : 227x170x40mm**

**Weight : 1280 g**

Smart Identify Ltd.
38 Soi samwa Bangchan, Klong Samwa, Bangkok 10510 Thailand
Tel : +66(0)2-136-9171-4 Fax : +66(0)2-136-9171

www.smartiden.com
smartidentify
@smartidentify

Smart Identify
Smart choice you choose

# UHF RFID Fixed Reader

**SID-FXRD-UF2861POE**

## GENERAL DESCRIPTION

SID-FXRD-UF2861POE is a high performance UHF RFID fixed 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 ISO18000-6C(EPC C1G2), ISO18000-6B protocol tag;
- 920~925MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm(adjustable);
- 4 TNC antenna port with antenna allure-detection;
- Support auto-running, answer, trigger and real-time-inventory work mode; Tag buffer size up to 800PCS (Max. 496bits EPC length);
- Support EPC and TID inventory;
- Low power dissipation with single +9 DC power supply;
- Support RS232, RS485, TCPIP with POE optional;
- High reliability design;
- Support on-the-site firmware upgrading.
- Supports POE or POE + (Power Over Ethernet) power supply and supports 12V-48V DC voltage transformer power supply.

## CHARACTERISTICS

- **Absolute Maximum Rating**

| ITEM | SYMBOL | VALUE | UNIT |
|---|---|---|---|
| Power Supply | VCC | 16 | V |
| Operating Temp. | $T_{OPR}$ | -10~+60 | ℃ |
| Storage Temp. | $T_{STR}$ | -20~+75 | ℃ |

- **Electrical and Mechanical Specification**

Under $T_A$＝25℃, VCC＝+9V unless specified

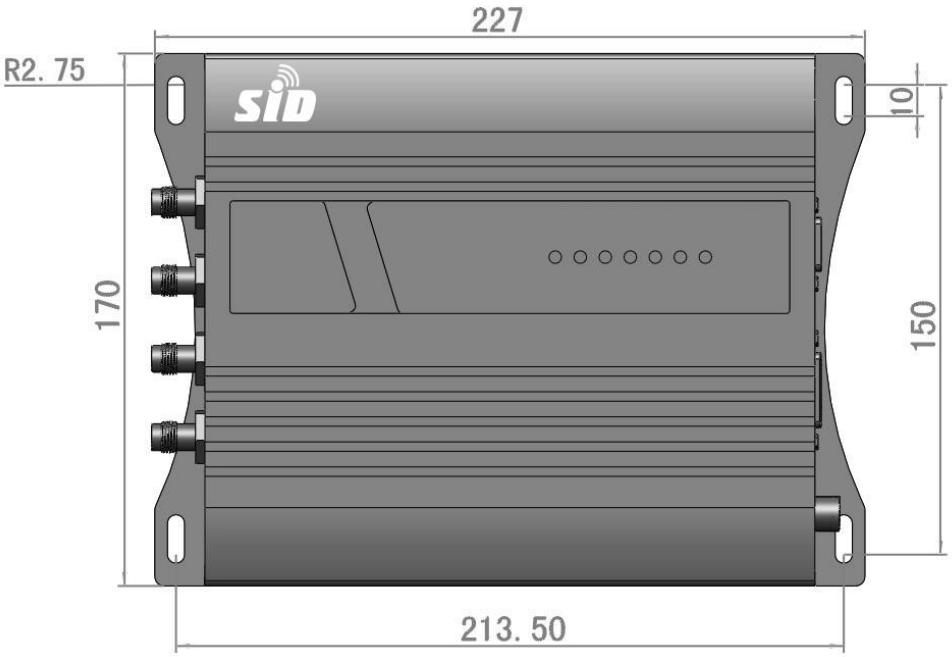
| ITEM | SYMBOL | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|
| Power Supply | VCC | 8 | 9 | 12 | V |
| Current Dissipation | IC | | 800 | 1500 | mA |
| Frequency | $F_{REQ}$ | 920 | 920~925 | 925 | MHz |
| Size | Size | | 227x170x40 | | mm |

Smart Identify Ltd.
38 Soi samwa Bangchan, Klong Samwa, Bangkok 10510 Thailand
Tel : +66(0)2-136-9171-4 Fax : +66(0)2-136-9171
www.smartiden.com
smartidentify
@smartidentify

# UHF RFID Fixed Reader

**SID-FXRD-UF2861POE**

## MECHANICAL DATA (UNIT mm):

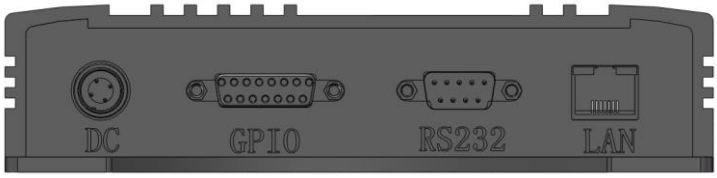




Smart Identify Ltd.
38 Soi samwa Bangchan, Klong Samwa, Bangkok 10510 Thailand
Tel : +66(0)2-136-9171-4 Fax : +66(0)2-136-9171

www.smartiden.com
smartidentify
@smartidentify

## INTERFACE




## 1. Power (DC JACK)

| No. | Symbol | Comment |
|---|---|---|
| Central | PWR | +9VDC |
| Outer | GND | Ground |

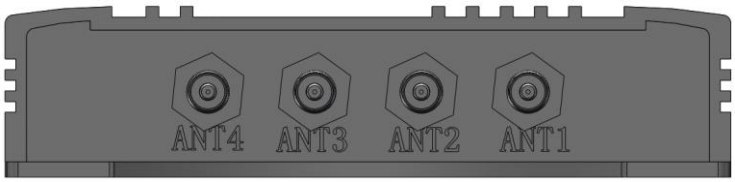
## 2. GPIO （DB15 Female）

| No. | Symbol | Comment |
|---|---|---|
| 1 | Output1 | General output1 |
| 2 | Output2 | General output2 |
| 3 | Output3 | General output3 |
| 4 | Output4 | General output4 |
| 5 | Input1 | General Intput1 with Internal 47k resistor pulled-down to ground |
| 6 | Input2 | General Intput2 with Internal 47k resistor pulled-down to ground |
| 7 | Input3 | General Intput3 with Internal 47k resistor pulled-down to ground |
| 8 | Input4 | General Intput4 with Internal 47k resistor pulled-down to ground |
| 9 | TGIN | Trigger input with internal 10k resistor pulled-up to +5V |
| 10 | R+ | R+ in RS485 |
| 11 | R- | R- in RS485 |
| 12 | GND | Ground |
| 13 | NC | Normal-Close terminal of internal relay |
| 14 | NO | Normal-Open terminal of internal relay |
| 15 | CM | Common terminal of internal relay |

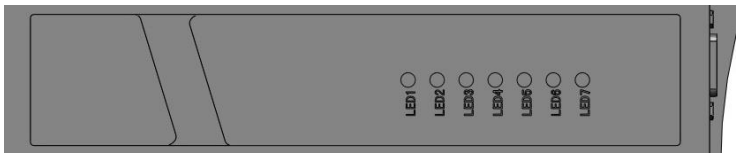
## 3. UART （RS232 DB9 Female）

| No. | Symbol | Comment |
|---|---|---|
| 1 | NC | Reserved |
| 2 | TXD | Data output in RS232 |
| 3 | RXD | Data input in RS232 |
| 4 | NC | Reserved |
| 5 | GND | Ground |
| 6 | NC | Reserved |
| 7 | NC | Reserved |
| 8 | NC | Reserved |
| 9 | NC | Reserved |

## 4. TCPIP network (RJ45)




## 5. TNC antenna port ANT1~ANT4

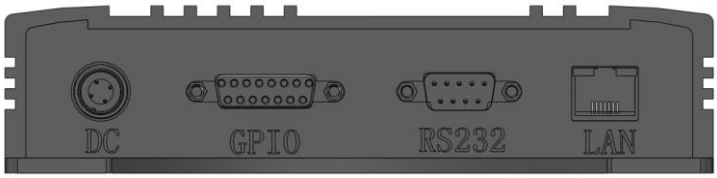



## 6. LED indicator LED1~LED7

| No. | Symbol | Comment |
|---|---|---|
| 1 | LED1 | Antenna 1 active indicator |
| 2 | LED2 | Antenna 2 active indicator |
| 3 | LED3 | Antenna 3 active indicator |
| 4 | LED4 | Antenna 4 active indicator |
| 5 | LED5 | Tag-detected indicator |
| 6 | LED6 | Command-executing indicator |
| 7 | LED7 | Power-on indicator |

*Remark:*

*1. Specifications are subject to change, please pay attention to our latest version.*




## GPIO （DB15 Female）

| No. | Symbol | Comment |
|---|---|---|
| 1 | Output1 | General output1.The general output is used to facilitate user to control other peripheral device. The output level is 5V TTL level with 5mA current driving ability. The user can control its high or low level by sending GPIO control command. |
| 2 | Output2 | General output2.The general output is used to facilitate user to control other peripheral device. The output level is 5V TTL level with 5mA current driving ability. The user can control its high or low level by sending GPIO control command. |
| 3 | Output3 | General output3.The general output is used to facilitate user to control other peripheral device. The output level is 5V TTL level with 5mA current driving ability. The user can control its high or low level by sending GPIO control command. |
| 4 | Output4 | General output4.The general output is used to facilitate user to control other peripheral device. The output level is 5V TTL level with 5mA current driving ability. The user can control its high or low level by sending GPIO control command. |
| 5 | Input1 | General Intput1 with Internal 47k resistor pulled-down to ground. The general input is used to facilitate user to get the status of other peripheral device. The input level is 5V TTL level. The user can get its value by sending GPIO control command. |
| 6 | Input2 | General Intput2 with Internal 47k resistor pulled-down to ground. The general input is used to facilitate user to get the status of other peripheral device. The input level is 5V TTL level. The user can get its value by sending GPIO control command. |
| 7 | Input3 | General Intput3 with Internal 47k resistor pulled-down to ground. The general input is used to facilitate user to get the status of other peripheral device. The input level is 5V TTL level. The user can get its value by sending GPIO control command. |
| 8 | Input4 | General Intput4 with Internal 47k resistor pulled-down to ground. The general input is used to facilitate user to get the status of other peripheral device. The input level is 5V TTL level. The user can get its value by sending GPIO control command. |
| 9 | TGIN | Trigger input with internal 10k resistor pulled-up to +5V. the reader supports trigger mode. The user can use this pin to trig the reader's work. |
| 10 | R+ | R+ in RS485. It is the positive data of RS485 bus. |
| 11 | R- | R- in RS485. It is the positive data of RS485 bus. |
| 12 | GND | Ground |
| 13 | NC | Normal-Close terminal of internal relay. The reader has one internal built-in relay. This is the normal close terminal of it. |
| 14 | NO | Normal-Open terminal of internal relay. The reader has one internal built-in relay. This is the normal open terminal of it. |
| 15 | CM | Common terminal of internal relay. The reader has one internal built-in relay. This is the common terminal of it. |