

## UHF High Performance Fixed Reader



UHF Fix  
Reader

**Model : UF2889-Lite**

**Size : 268/240x181x28 mm**

**Weight : -**

### GENERAL DESCRIPTION

UHF High Performance Fixed Reader SID-UF2889-Lite 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. SID-UF2889-Lite 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;
- 840~960MHz frequency band (frequency customization optional);
- Based on Impinj R2000 high performance RF engine, excellent multi-tag anti-collision operation, fully support EPC CLASS1 G2 \ ISO18000-6B protocol tags
- FHSS or Fix Frequency transmission with maximum inventory speed over 700pcs;
- Support RSSI;
- RF output power up to 33dbm (adjustable);
- Support 8 TNC antenna port with antenna failure detection;
- Tag buffer: 1000pcs@96bitsEPC;
- Low power dissipation with single +9 DC power supply, POE (Power over Ethernet) is optional;
- Support RS232, USB(Slave), RJ45 (TCP/IP) interface;
- Provide DLL and Demonstration Software Source code to facilitate further development;
- High reliability design, meet the requirements of harsh working environment.

### CHARACTERISTICS

#### Absolute Maximum Rating

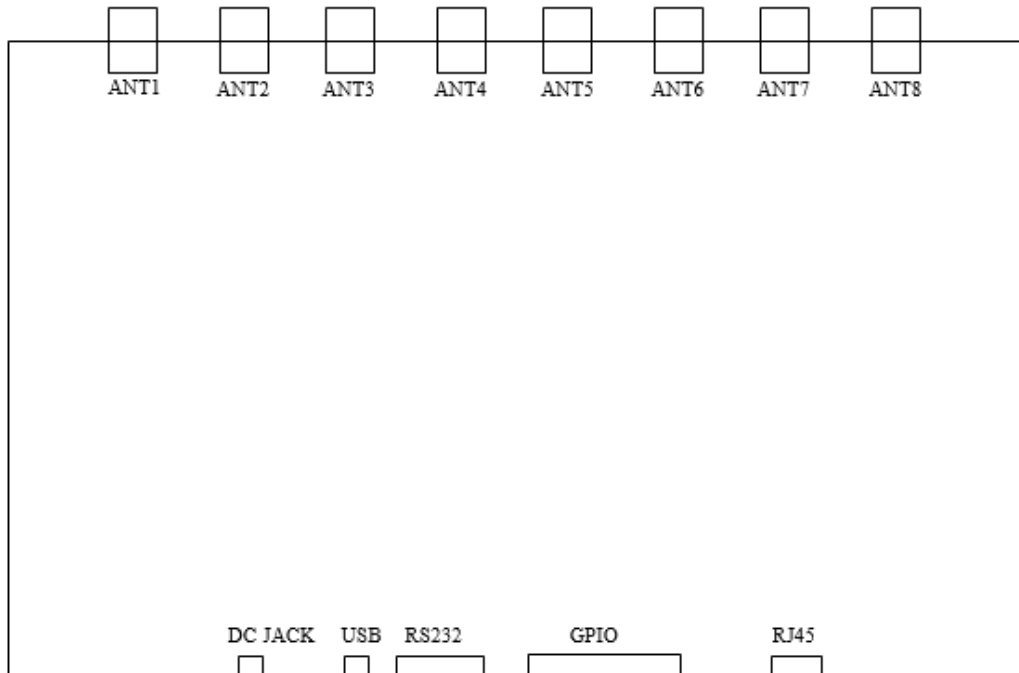
ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T <sub>OPR</sub>	-20~+55	°C
Storage Temp.	T <sub>STR</sub>	-20~+85	°C

#### Electrical and Mechanical Specification

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

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	IC		0.5	1.2	A
Frequency	FREQ	840	860~868 902~928	960	MHz
Size	L x W x H		268 x 181 x 28		Mm

### INTERFACE



#### 1. Power (DC JACK)

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

#### 2. USB

#### 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. GPIO (DB15 Female)

No.	Symbol	Comment
1	NC	Reserved
2	NC	Reserved
3	Input1 -	General OPTO-coupler isolated input -
4	Input2 -	General OPTO-coupler isolated input -
5	Output1	General OPTO-coupler isolated Output1
6	Output1	General OPTO-coupler isolated Output1
7	Output2	General OPTO-coupler isolated Output2
8	Output2	General OPTO-coupler isolated Output2
9	Input1 +	General OPTO-coupler isolated input+ with internal pull-up to 3.3V through a 1k resistor
10	Input2 +	General OPTO-coupler isolated input+ with internal pull-up to 3.3V through a 1k resistor
11	NC	Reserved
12	GND	Ground
13	NC	Reserved
14	NC	Reserved
15	NC	Reserved

#### 5. TCPIP network (RJ45)

#### 6. TNC antenna port ANT1~ANT8

Remark:

1. Specifications are subject to change, please pay attention to our latest version.
2. Smart Identify Co., Ltd. reserves the right to the final interpretation of the above terms.