BARFAS

Product name: High Performance UHF RFID Fixed Reader

Product number: CF-RU6403

SIZE: 270x180x27mm

GENERAL DESCRIPTION

UHF High Performance Fixed Reader UHFReader288MP 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. RRU2882LITE can be widely applied in many RFID application systems such as logistics, access control, anti-counterfeit and industrial production process control system.

BARFAS

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, support RSSI, Maximum inventory speed over 700pcs;
- RF output power up to 33dbm (adjustable);
- Support 4 TNC antenna port with antenna auto-tuning and failure-detection;
- Support answer and real-time-inventory work mode;
- Tag buffer: 1000pcs@96bitsEPC;
- Support EPC and TID anti-collision mode
- 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**

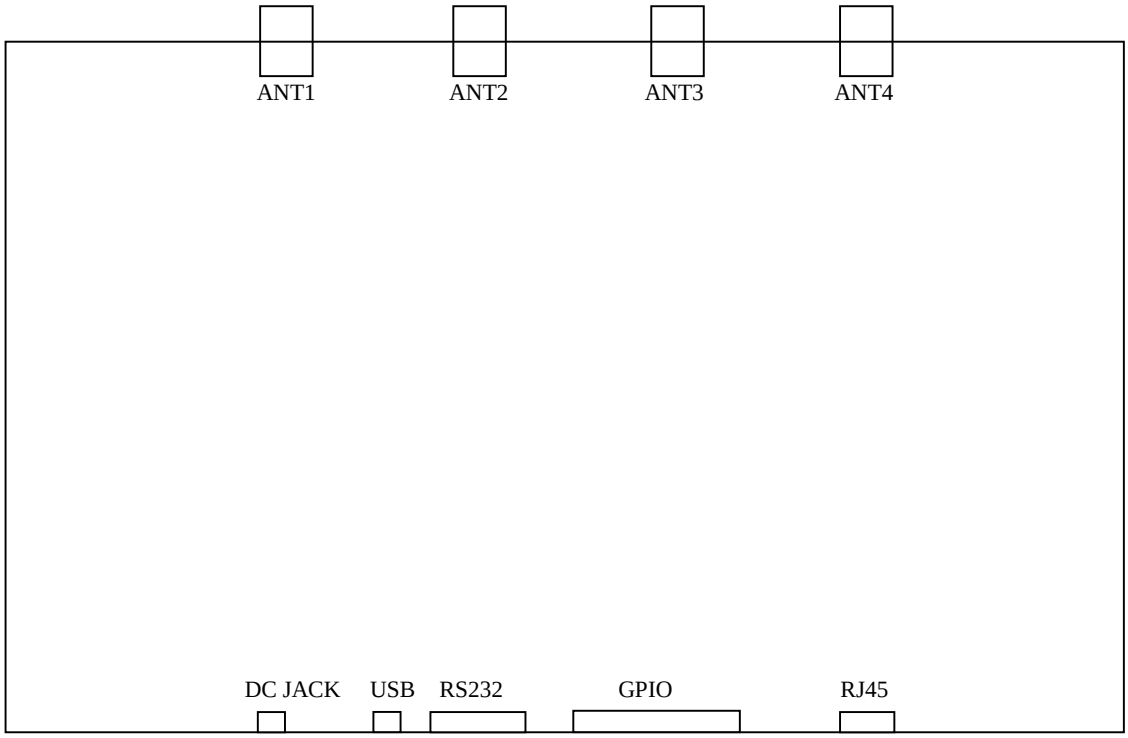
ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T_{OPR}	-20~+55	℃
Storage Temp.	T_{STR}	-20~+85	℃

- **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		0.5	1.2	A
Frequency	F_{REQ}	840	860~868 902~928	960	MHz
Size	L x W x H		268 x181 x28		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~ANT4