

Ex10 Fixed Reader (4-Port)



Model: RRU7182Lite

RRU5182Lite

RRU3182Lite

Size: 268mmx181mmx28mm

Weight: 1180g

GENERAL DESCRIPTION

RRU7182Lite/RRU5182Lite/RRU3182Lite 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. RRU7182Lite/IP 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;
- Designed with IMPINJ E710/E510/E310 and support ISO18000-6C(EPC C1G2) protocol tag, featuring excellent multi-tag anti-collision functionality;
- 865~868MHz/902~928MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 33dbm(adjustable);
- TNC sockets for 4 external antennae ;
- Effective distance up to 12m*(with external 8dbi antenna and tag E41);
- Maximum inventory speed* up to 1000pcs/s (using E710) or 600pcs/s (using E510) or 350pcs/s (using E310);
- Support RSSI;
- Tag buffer size up to 1000PCS@96bits EPC;
- Low power dissipation with single +9 DC power supply, POE (Power over Ethernet) is optional;
- Support RS232, USB(Slave), RJ45 (TCP/IP), provide WiFi and other interface for choice;
- High reliability design, meet the requirements of harsh working environment;
- Support on-the-site firmware upgrading.

**Effective reading distance and tag interrogation speed are directly related to the antenna, tags, and the working environment.*

CHARACTERISTICS

● Absolute Maximum Ratings

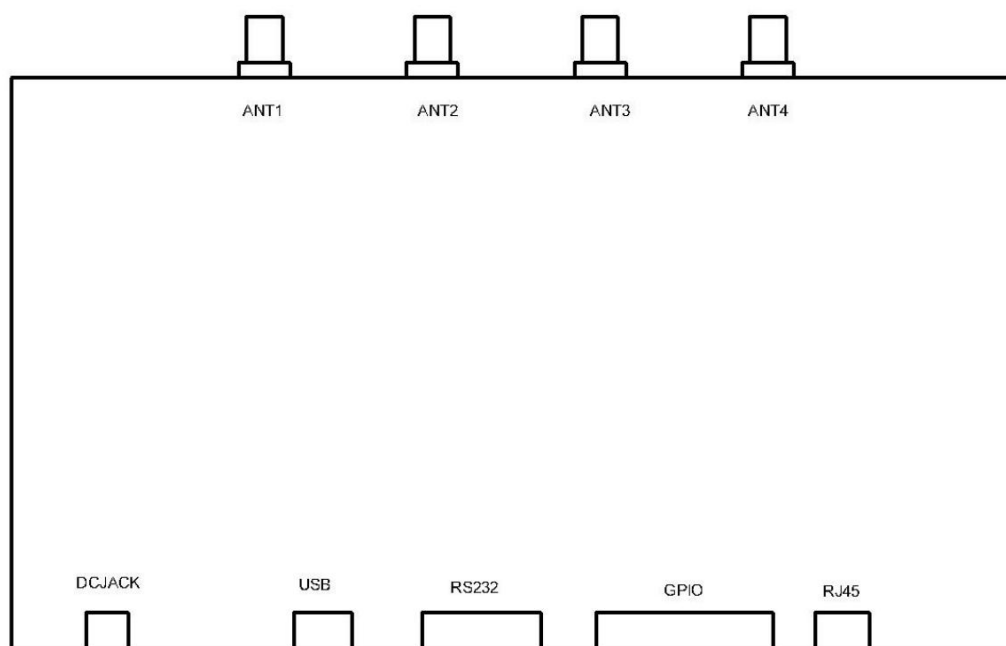
ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	26	V
Operating Temp	T _{OPR}	-20 ~ +65	℃
Storage Temp	T _{STR}	-40 ~ +85	℃

● Electrical and Mechanical Specification

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

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	9	9	24	V
Current Dissipation	I _C	330	90 (standby)	1000(30dBm) 1300(33dBm)	mA
Frequency	F _{REQ}	-	865~868(ETSI) 902~928(FCC)	-	MHz
RF Output Power	P _{RF}	5		33	dBm
Receive Sensitivity	SR		-74(using E310) -81(using E510) -87(using E710)		dBm

INTERFACE



1. Power (DC JACK)

NO.	Symbol	Comment
Central	PWR	Power Supply
Outer	GND	Ground

2. USB (Slave)

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

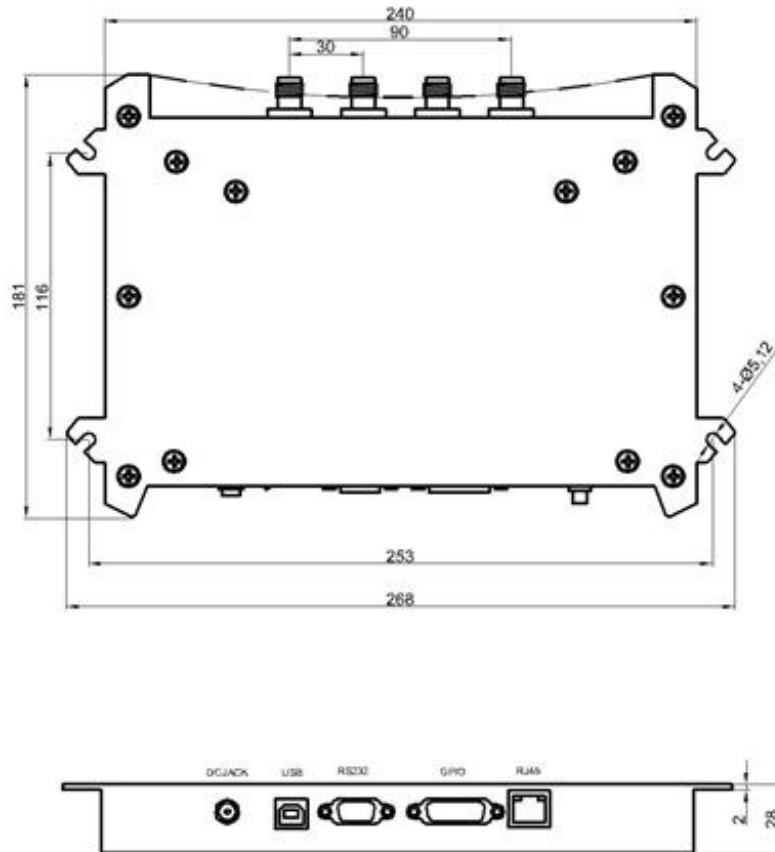
4. GPIO (DB15 Female)

No.	Symbol	Comment
1	NC	Reserved
2	NC	Reserved
3	Input2—	General OPTO-coupler isolated input -
4	Input1—	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	Input2+	General OPTO-coupler isolated input+
10	Input1+	General OPTO-coupler isolated input+
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)

MECHANICAL DATA (UNIT:mm)



ACCESSORIES



RS232 cable * 1pcs



USB Cable * 1pcs



Power Adapter * 1pcs



Power Cord * 1 pcs

Remark:

- Specifications are subject to change, please pay attention to our latest version.
- Shenzhen RoyalRay Science and Technology Co., Ltd. reserves the right to the final interpretation of the above terms.