

High Performance UHF RFID Fixed Reader



Model: UHFREADER288A12

Size: 227mmx170mmx40mm

GENERAL DESCRIPTION

UHFREADER288A12 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;
- 902~928MHz frequency band(frequency customization optional);
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm(adjustable);
- 4 TNC antenna port with antenna auto-tuning and failure-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.

CHARACTERISTICS

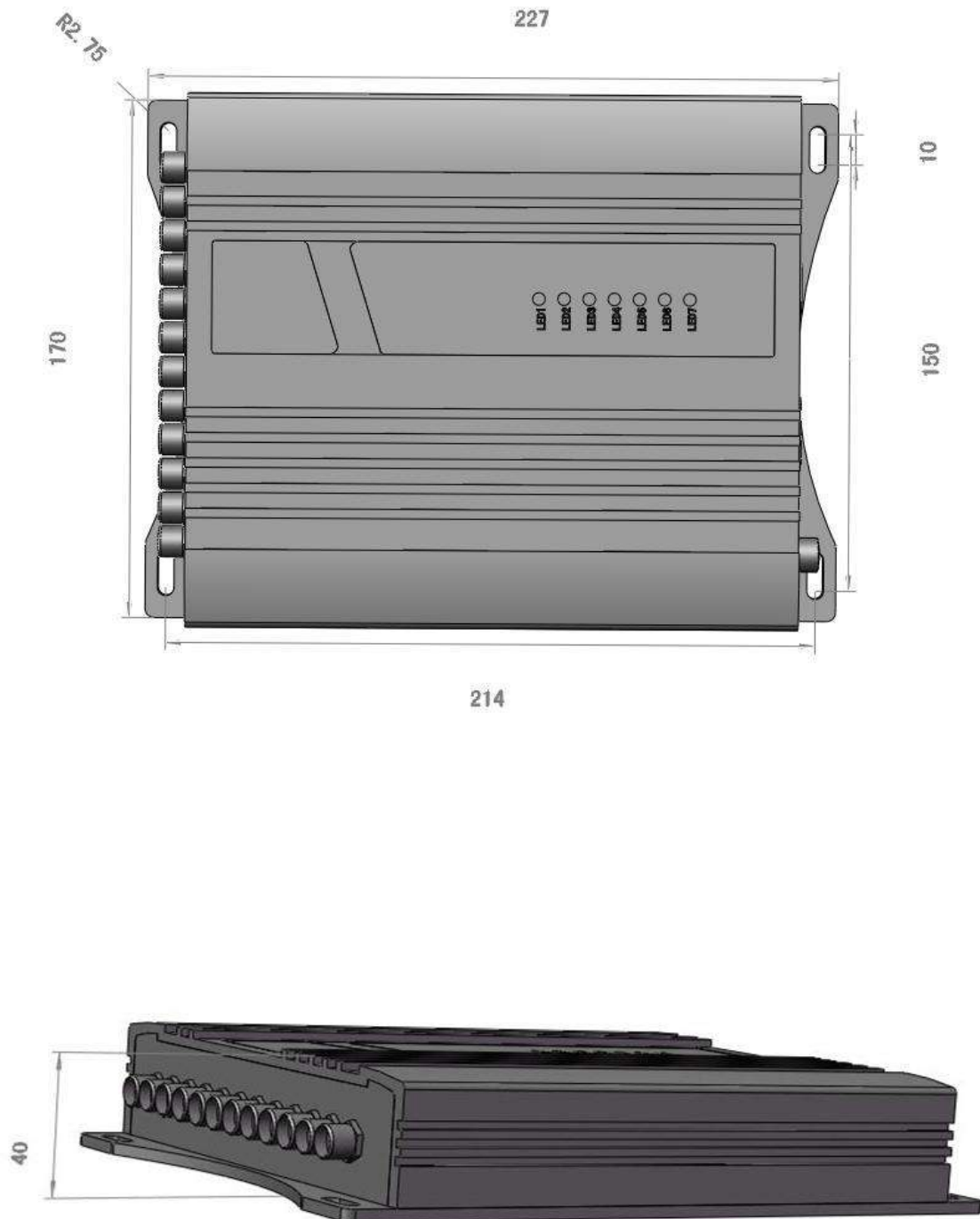
● Absolute Maximum Rating

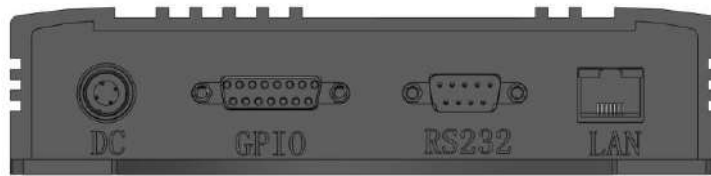
ITEM	SYM BOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T _{OPR}	-10~+60	°C
Storage Temp.	T _{STR}	-20~+75	°C

● Electrical and Mechanical Specification

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

ITEM	SYM BOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	IC		800	1500	mA
Frequency	F _{REQ}	902	902~928	928	MHz
Size	Size		227×170×40		mm

MECHANICAL DATA(UNIT mm):**INTERFACE**



1. Power (DC JACK)

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

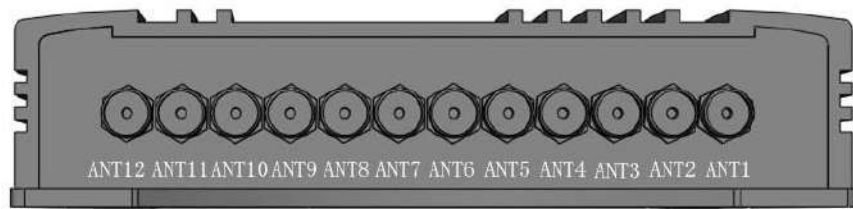
2. GPIO (DB15 Female)

No.	Symbol	Comment
1	Output1	General output1
2	Output2	General output2
3	Output3	General output3
4	Output4	General output4
5	Input1	General Input1 with Internal 47k resistor pulled-down to ground
6	Input2	General Input2 with Internal 47k resistor pulled-down to ground
7	Input3	General Input3 with Internal 47k resistor pulled-down to ground
8	Input4	General Input4 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 1-4 active indicator
2	LED2	Antenna 5-8 active indicator
3	LED3	Antenna 9-12 active indicator
4	LED4	Reserved
5	LED5	Tag-detected indicator
6	LED6	Command-executing indicator
7	LED7	Power-on indicator