

High Performance UHF RFID Fixed Reader



Model: GEE-UR-3500

Size: 310mmx210mmx41mm

GENERAL DESCRIPTION

GEE-UR-3500 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;
- Designed with Impinj R2000 RFID engine;
- 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, RJ45(TCPIP) with WiFi and POE optional;
- High reliability design;
- Support on-the-site firmware upgrading and optional Wince or Linux Operation System.

CHARACTERISTICS

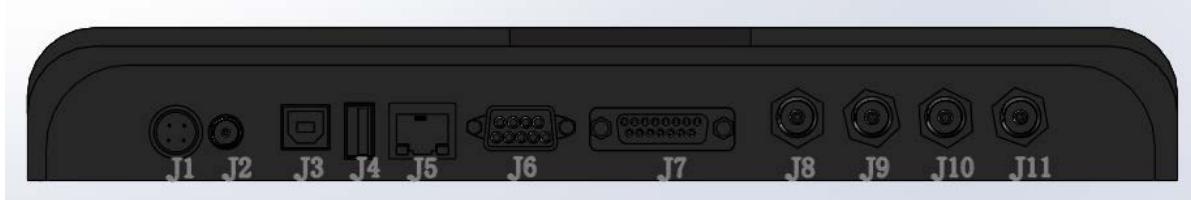
- **Absolute Maximum Rating**

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		310×210×41		mm

MECHANICAL DATA(UNIT mm):**INTERFACE****1. Power J1**

No.	Symbol	Comment
2	PWR	+9VDC
4	GND	Ground
1,3	NC	Reserved

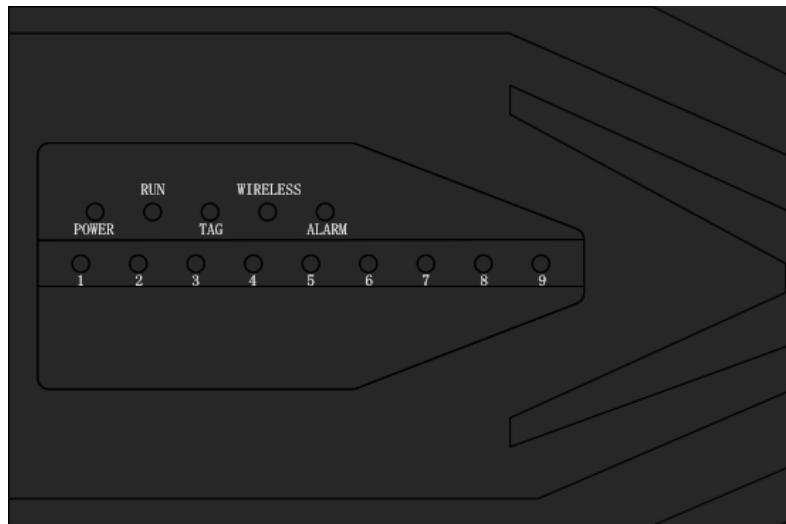
2. WiFi Antenna J2 (SMA Female)**3. USB J3 (Slave)****4. USB J4 (Reserved)****5. TCPIP RJ45 Socket J5****6. UART J6 (RS232 DB9 Female)**

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

7. GPIO J7 (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

8. TNC Antenna Port1~Port4 J8~J11



9. LED indicator

Symbol	Comment
POWER	Power on indicator
RUN	Command-executing indicator
TAG	Tag-detected indicator
WIRELESS	WiFi active indicator
ALARM	Alarm indicator
1~9	RSSI indicator

Remark:

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

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.