UHF High Performance Reader

Model : FU0032

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Introduction

FU0032 is a high performance UHF RFID 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 RFID application systems. Such as logistics, access control, anti-collision and industrial production process control system.

Features.

- Self-intellectual property.
- 840MHz~960MHz frequency band (customized frequency band according to different countries or districts).
- Based on Impinj E710 high performance RF engine. Support tags that comply with the EPC CLASS G2、ISO18000-6C Standard.
- FHSS or Fix Frequency transmission, support RSSI and peak inspection speed greater than 1000 pcs/ second.
- RF output power up to 33dbm (adjustable).
- Support 16 SMA antenna port for antenna auto-tuning and detection.
- Support Response mode and Real-time Inspection mode.
- Cache capability:1000pcs@ longest 96bits EPC.
- Support EPC and TID anti-collision model.
- Low power design, single +9 DC power supply. (POE power supply optional)
- Support RS232、Wiegand 26/34、support RJ45（TCP/IP）multiple communication interfaces.
- Support（DLL）and demonstrate source code, support secondary development.
- Exquisite and compact design to meet various application needs.

Electrical Characteristics

- **Limit parameters**

Item	Symbol	Value	Unit
Supply Voltage	VCC	16	V
Operation Temperature	T_{OPR}	-20～+55	℃
Storage Temperature	T_{STR}	-20～+85	℃

- **Specification**

Unless otherwise specified, the specification shown taken from operation condition of T_A＝25℃ and VCC＝+9V

Item	Symbol	Min	Typical	Max	Unit
Supply Voltage	VCC	8	9	24	V

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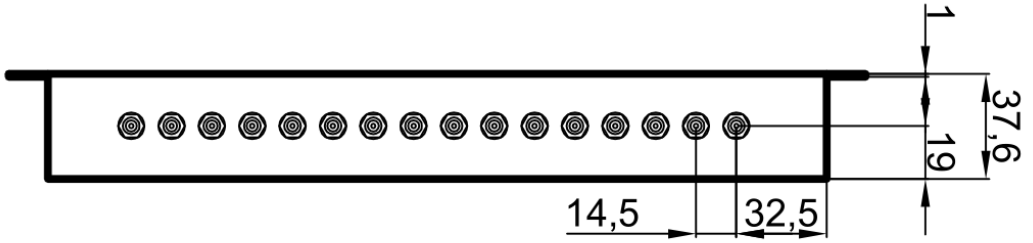
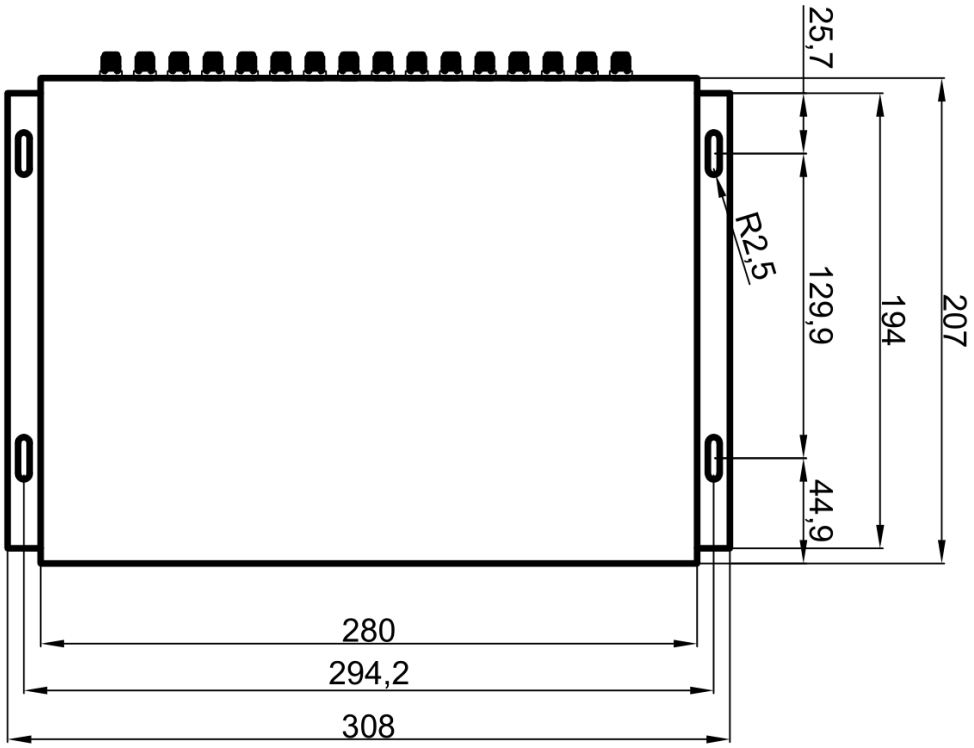
Working Current	IC		0.5	1.2	A
Working Frequency	F_{REQ}	840	860~868 902~928	960	MHz

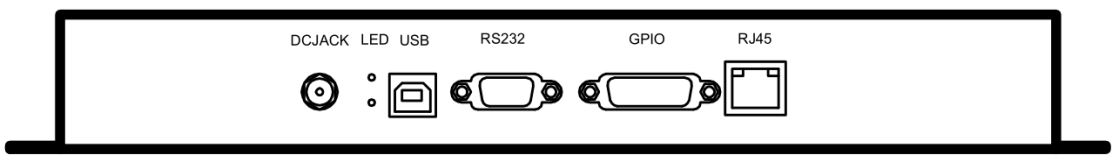
Mechanical Characteristic（Unit/mm）



接口图（1）



Front



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Interface (2)

1. Power DC JACK

NO	Symbol	Description
Central	PWR	+9VDC
Outer	GND	GND

2. SCI RS232 (DB9 Female)

NO	Symbol	Description
1	NC	Reserved
2	TXD	Serial data out (SDO)
3	RXD	Serial data in (SDI)
4	NC	Reserved
5	GND	Signal GND
6	NC	Reserved
7	NC	Reserved
8	NC	Reserved
9	NC	Reserved

3. GPIO (DB15 Female)

序号	符号	描述
1	NC	Reserved
2	NC	Reserved
3	Input1—	Universal optocoupler isolation input terminal1-
4	Input2—	Universal optocoupler isolation input terminal2-
5	Output1	Universal optocoupler isolation input terminal1
6	Output1	Universal optocoupler isolation input terminal1
7	Output2	Universal optocoupler isolation input terminal2
8	Output2	Universal optocoupler isolation input terminal2
9	Input1＋	Universal optocoupler isolation input terminal1＋ (it can up to 3.3V through a 1k resistor, you can choose to pull it down to ground)
10	Input2＋	Universal optocoupler isolation input terminal 2+ (it can up to 3.3V through a 1k resistor, you can choose to pull it down to ground)
11	NC	Reserved
12	GND	Signal GND
13	NC	Reserved
14	NC	Reserved
15	NC	Reserved

4. TCPIP Network Interface RJ45

Attn:
1.Should any changes occur, the final edition shall prevail for all purposes.
2. Xiamen Innov Information Science & Tech., Co. Ltd reserve the right of final explanations.

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