High Performance UHF RFID Fixed Reader

Model Number: FU0031

Size: 158/189mmx92mmx25mm

N.W: 360g

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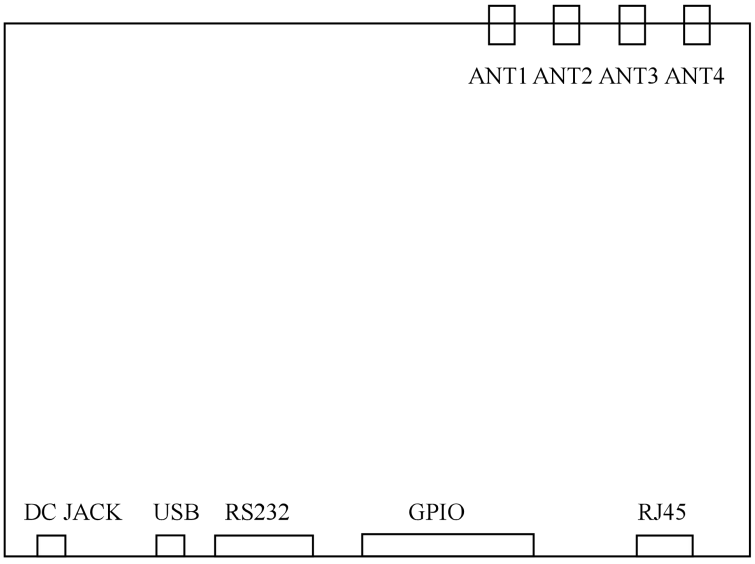
General Introduction

FU0031 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 RFID application systems. Such as logistics, access control, anti-collision and industrial production process control system.

Features

- Self-intellectual property.
- Based on Impinj E710 high performance RF engine.
- Support EPC ClASS G2 (ISO18000-6C) protocol tag.
- 860MHz~960MHz frequency band (customized frequency band available).
- FHSS or Fix Frequency transmission.
- RF output power up to 30/33dbm (adjustable).
- Support 4 SMA antenna port for antenna auto-tuning and failure-detection.
- Low power design, single +9 DC power supply. (Wide voltage 9-30v power supply optional).
- Support USB(Slave), RS232, RJ45(TCPIP), POE optional.
- High reliability design to meet harsh working environment requirements.

Interface



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1. Power DC JACK

NO.	Symbol	Description
Central	PWR	+9VDC
Outer	GND	GND

2. USB Interface

3. SCI RS232 （DB9 Male）

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

4. GPIO （DB15 Female）

No.	Symbol	Description
1	Output1	General Output1 (internally used as the buzzer driver with low level effective)
2	Out.ut2	General Output2
3	NC	Reserved
4	NC	Reserved
5	NC	Reserved
6	NC	Reserved
7	NC	Reserved
8	NC	Reserved
9	Input	General input (internal pull-up to 5V through a 10k resistor)
10	NC	Reserved
11	NC	Reserved
12	NC	Reserved
13	NC	Reserved
14	NC	Reserved
15	NC	Reserved

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5. TCPIP network (RJ45)

6. SMA antenna port ANT1~ANT4

Electrical Characteristics

Limit parameter

Item	Symbol	Value	Unit
Supply Voltage	VCC	16	V
Operation Temperature	T_{OPR}	-10~+55	℃
Storage Temperature	T_{STR}	-20~+75	℃

● **Specifications** （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	12	V
Working Current	I_C		0.5	1.2	A
Working Frequency	F_{REQ}	840	860~868/902~928	960	MHz
Size	L x W x H		158/189x92x25		mm

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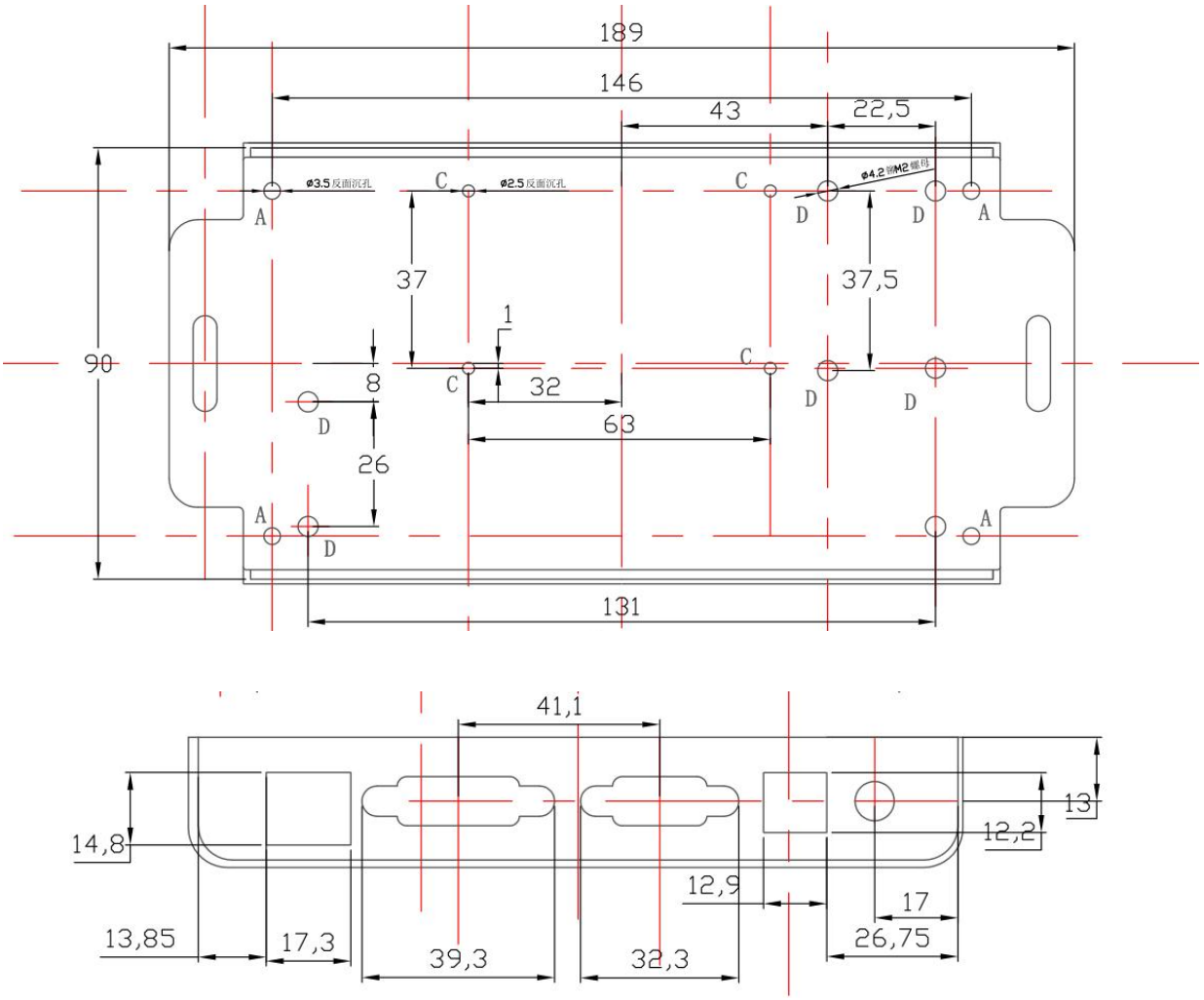
Product Mechanical Drawing



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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