

Ex10 UHF RFID Workstation Reader



Model: RRU7181DK4230IE

RRU5181DK4230IE

RRU3181DK4230IE

Size: 420mm×300mm×24mm

GENERAL DESCRIPTION

RRU7181DK4230IE/RRU5181DK4230IE/RRU3181DK4230IE 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. RRU733U-NF/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);
- 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;
- Built-in antenna, typical reading effective distance >2m*
- Low power dissipation with single +9 DC power supply;
- Support RS232, USB(2.0) and other interface for choice;
- High reliability design, meet the requirements of harsh working environment;
- Support on-the-site firmware upgrading.

** Effective distance depends on antenna, tag and working environment.*

CHARACTERISTICS

● Absolute Maximum Ratings

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	6	V
Operating Temp	T _{OPR}	-20 ~ +60	°C
Storage Temp	T _{STR}	-20 ~ +70	°C

● Electrical and Mechanical Specification

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

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	9	-	24	V
Current Dissipation	I _c	270 (5dBm)	-	900(30dBm) 1200(33dBm)	mA
Frequency	F _{REQ}	-	865~868(ETSI) 902~928(FCC)	-	MHz
RF Output Power	P _{RF}	5		27	dBm
Receive Sensitivity	SR		-74(using E310) -81(using E510) -87(using E710)		dBm

INTERFACE



1. Power (DC JACK)

2. UART (RS232 DB9 Female)

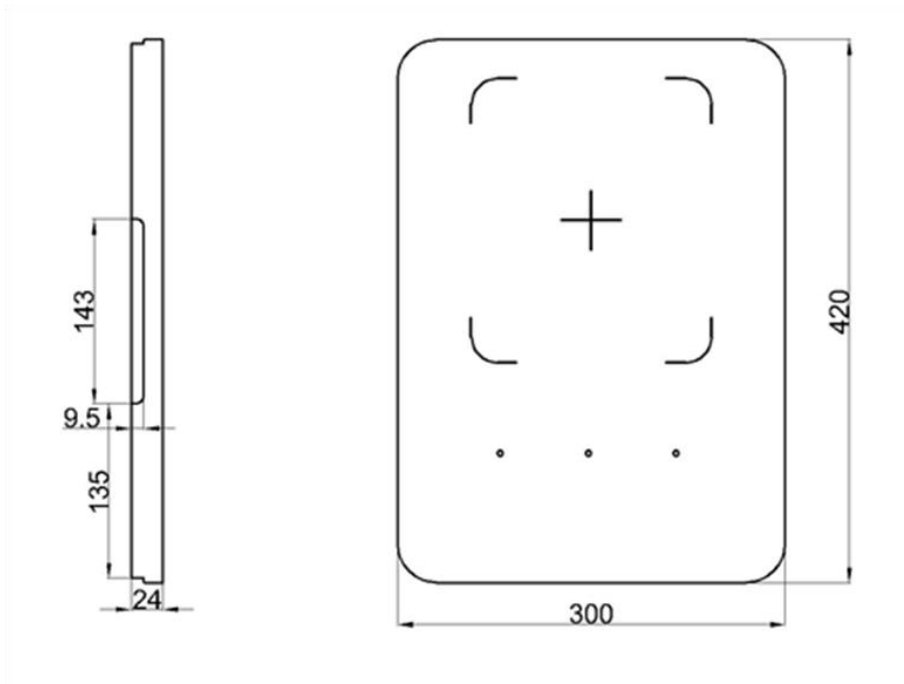
No.	Symbol	Comment
1	NC	Reserved
2	TXD	Data output in RS232
3	RXD	Data input in RS232
4	NC	Reserved
5	GND	Ground
6	NC	Reserved
7	NC	Reserved
8	NC	Reserved
9	NC	Reserved

3. USB (2.0)

4. LED

No.	Symbol	Comment
1	POWER	Power LED
2	RUN	Work LED

MECHANICAL DATA (UNIT: mm)



ACCESSORY



Power Adapter*1



Power Cord*1

Remark:

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