

Ex10 RFID Smart Tray Reader



Model: RRU73728U-NF

RRU53728U-NF

RRU33728U-NF

Size: 370mmx280mmx25mm

GENERAL DESCRIPTION

RRU73728U-NF/RRU53728U-NF/RRU33728U-NF 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. RRUx3728U-NF 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 27dbm(adjustable);
- Maximum inventory speed* up to 1000pcs/s (using E710) or 600pcs/s (using E510) or 350 pcs/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 USB 2.0 power supply;
- Support USB2.0 interface;
- Provide DLL and Demonstration Software Source code to facilitate further development.

* 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=+5V unless specified

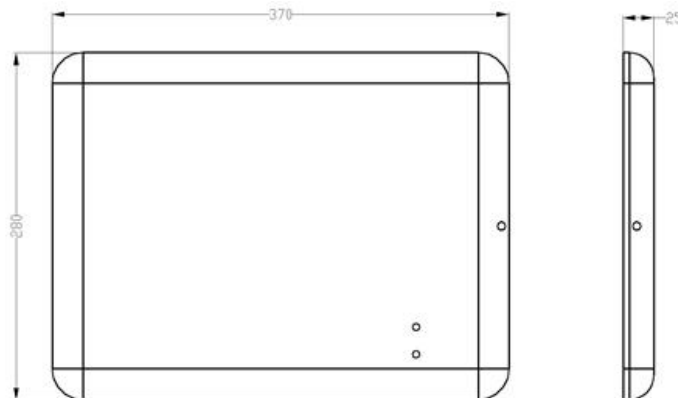
ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC		5		V
Current Dissipation	I _c	700 (5dBm)	90 (standby)	1100(27dBm)	mA
Frequency	F _{REQ}	-	865~868(ETSI) 902~928(FCC)	-	MHz
RF Output Power	P _{RF}	5		27	dBm
Receive Sensitivity	SR		-74(using E310) -81(using E510) -87(using E710)		dBm

INTERFACE



NAME (from left to right)	ITEM	DESCRIPTION	REMARK
STATE	STATE_LED	State indicators	BLUE
POWER	Power LED	Power on indication	RED
USB INTERFACE	USB	USB2.0	
BUZZER	BUZZER	Power on indication Tag detected indication	

MECHANICAL DATA (UNIT: mm)



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.