

UHF RFID Integrated Reader



Model: RFID102R

Size: 445mmx445mmx55mm

Weight: 2600g

General Description

RFID102R is a high performance UHF RFID integrated 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;

Design based on Impinj R2000 with excellent anti-collision performance

Support ISO18000-6B, ISO18000-6C(EPC C1G2) protocol tag;

902~928MHz frequency band(frequency customization optional);

FHSS or Fix Frequency transmission;

RF output power up to 30dbm(adjustable);

12dbi antenna optional with effect distance up to 0~25m*;

Support auto-running, interactive and trigger-activating work mode;

Low power dissipation with single +9 DC power supply;

Support RS232, RS485, Wiegand interface with TCPIP interface optional;

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

CHARACTERISTICS

Absolute Maximum Rating

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	16	V
Operating Temp.	T _{OPR}	-10~+60	°C
Storage Temp.	T _{STR}	-25~+80	°C

Electrical and Mechanical Specification

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

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	8	9	12	V
Current Dissipation	I _C		350	650	mA
Frequency	F _{REQ}	902		928	MHz
Effective Distance	DIS	800	1200		cm

INTERFACE

ITEM	COMMENT
Red	+9V
Black	GND
Yellow	Wiegand DATA0
Blue	Wiegand DATA1
Purple	RS485 R+
Orange	RS485 R-
Brown	GND
White	RS232 RXD
Green	RS232 TXD
Grey	Trigger input (TTL level)

* Effective distance depends on antenna, tag and environment.