UHF High Performance Integrated RFID Reader

Model：AC-RFF-015R

Size：220mmx220mmx65mm

GENERAL DESCRIPTION

AC-RFF-015R UHF High Performance Integrated RFID Reader is designed for railway application. 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, and anti-counterfeit and industrial production process control system.

FEATURES

- 860~868MHz, 902~928MHz frequency band (frequency customization optional);
- Inpinj INDY R2000 module, excellent multi-tag anti-collision operation, fully support EPC CLASS1 G2 protocol tag;
- FHSS or Fix Frequency transmission;
- RF output power up to 30dbm(adjustable);
- 8dbi antenna optional with effect reading distance up to 9~12m
- Support auto-running, interactive and trigger-activating work mode;
- Low power dissipation with single +9 DC power supply;
- Support RS232, RS485, Wiegand;
- Provide DLL and Demonstration Software Source code to facilitate further development.

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	$^{\circ}C$
Storage Temp.	T_{STR}	-25~+80	$^{\circ}C$

Electrical and Mechanical Specification Under

$T_A=25^{\circ}C$ 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}	860	860~868 902~928	928	MHz
Effective Distance*	DIS	9	12		m

Effective distance depends on antenna, tag and environment.

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）