SM928 4 Channel UHF RFID Reader



Specification

SM928 is a professional-grade, 4 channels , high-performance UHF electronic tag fixed reader based on the Impinj R2000 platform. With complete independent intellectual property rights, the reader's default working frequency band is 902MHz ~ 928MHz or 865-868mhz supports ISO18000-6C (EPC C1 GEN2) protocol, has strong multi-tags recognition capability, long card reading distance, high protection performance and convenient installation and configuration. Features.

Features

- ☆ Patent design, independent intellectual property rights;
- $\cancel{2}$ POE power supply be customized;
- $\stackrel{\wedge}{\curvearrowright}$ 4 channels of RF channels superior to the industry level;
- \cancel{x} Based on the Impini R2000 platform;
- \Rightarrow Support RSSI value detection;

 $\,\, \bigstar \,$ Adopt standard API interface, provide DEMO and source code, support VC, CS, JAVA and other development routines;

Performance parameter

Technology para	imeter
Working frequency	902~928MHz; 865~868 MHz
Protocol	EPC C1 Gen2 ISO18000-6C
RF power	0~33dBm(adjustable)
Reading distance	0~30m (Depend on antenna and environment)
Read rate	>300times/second
Flash Power off save	8Mbit (Power off save the data, customized)

Time recording	Clock chip records card reading time(customized)
Label detection	Support RSSI value detection
Communication	parameters
RF interface	4 TNC connector
RS232 connector	115200 bps (default)
TCP/IP	230400 bps (default)
I/O interface	2 way-road relay output,2 way -road I/O input
Power parameter	r
power supply	12VDC / 3A
POE Power	customized
Environmental p	arameters
Operating temperature	-20℃~55℃
storage temperature	-30℃~80℃
Storage humidity	5%~95%RH No condensation
Physical parame	ter
Size	246X160X30mm
weight	about2kg
material	Aluminum alloy

Interface

No	Picture	description
1		DC power interface
2		RS232 interface
3		TCP/IP

4	I/O interface : 12road (1-12 is from left to right), the detailed interface is defined as follows
5	I/O interface : 8road (1-8 is from left to right), the detailed interface is defined as follows

I/O Interface definition

No	Name	Description
1	DCIN	+12V input/output
2	GND	GND ground
3	TIN	Trigger input (low level available)
4	NO1	Relay 1 output (Open)
5	COM1	Relay 1 input
6	NC2	Relay 2 output (Close)
7	COM2	Relay 2 input
8	NO2	Relay 2 output (Open)
9	WGB	Wiegand (trigger input be customized), low level available
10	WGA	Wiegand (trigger input be customized), low level available
11	RS485A	RS485A
12	RS485B	RS485B

No	Name	Description
1	GND	GND ground
2	+5V	+5V output
3	IOV3	I/O (customized)
4	IOV2	I/O (customized)
5	IOV1	I/O (customized)
6	ANT1	Antenna switch pin(customized)
7	ANT0	Antenna switch pin(customized)
8	GND	GND ground

Product accessory

1.Power adapter

Power supply is 12V/3A, industrial grade adapter



2. RF 9dbi Antenna (need purchase separately)

The RF antenna mainly implements RF signal transmission and tag reflection signal reception. And transmitting the received signal label to the reader through the RF cable for processing.



3.RF Antenna(9dbi)

The standard RF cable of the SM928 reader is equipped with a TNC at both ends of a coaxial cable. The type of RF connector, the standard length of the coaxial cable is 3 meters.



Demo(C#) RS232 interface

English 👻			Setting CommPa	irams Set	ting Spe	ecial function		
		Inventory	Start	s	top	Clear	-	TagsReadingTime:
48 👻	Single	Dev						
OpenServer	No	EPC	Counts	Rssi	Ant	Dir Dev	IP/COM	00:00:09
openderver	1	300833B2DDD9014020170916	38	61	1		COM5	
	2	300833B2DDD9014020170912	14	62	1		COM5	
Disconneo	3	E2003098060C020226900A1E	14	68	1		COM5	Counts of EPC
Disconneo	4	E2000016661401610240F2BB	18	61	1		COM5	100000000
Port State ID	5	E200001B2116006024901D86	2	67	1		COM5	16
	6	E200001B211602292570D242		64	1		COM5	a second second
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	8				1		COM5	
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					1			Counts of Tags
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Get Refresh								Tim
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	Destroy Password (Use For Kill Tag)		
III			
6.1/V1118-04 Get Refresh			

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t 20058 OpenServer		IP Mode
rialPort		IP Address
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IP/SerialPort Port State ID		SubnetMask
COM5 0 OK 0		
		Port
		Gateway
		Below setting only use in TCP Client:
	SerialPort Params	Local IP
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	Baud Rate Parity Search Dev	LocalIP -
	Baud Rate Parity	LocalIP -
	Baud Rate Parity	Local IP
	Baud Rate Parity	Local IP
	Baud Rate Parity	Local IP
6.1/V1118-04 Get Refresh	Baud Rate Parity	Local IP

Size (Unit: mm)

