

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;
- ☆ POE power supply be customized;
- ☆ 4 channels of RF channels superior to the industry level;
- ☆ Based on the Impinj R2000 platform;
- ☆ Support RSSI value detection;
- ☆ Adopt standard API interface, provide DEMO and source code, support VC, CS, JAVA and other development routines;



Performance parameter

Technology parameter	
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	
power supply	12VDC / 3A
POE Power	customized
Environmental parameters	
Operating temperature	-20℃~55℃
storage temperature	-30℃~80℃
Storage humidity	5%~95%RH No condensation
Physical parameter	
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.

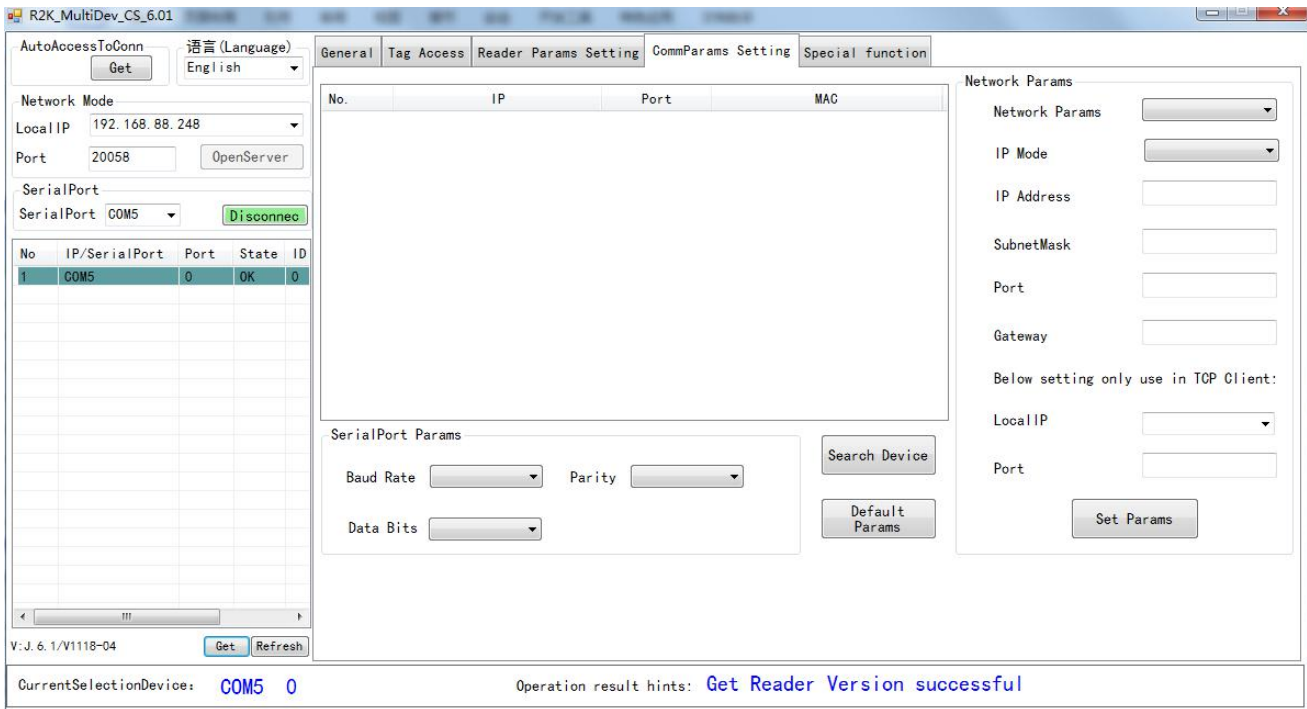


Demo(C#) RS232 interface

The screenshot shows the 'Inventory Once' window in the R2K_MultiDev_CS_6.01 application. The interface includes a left sidebar with connection settings (AutoAccessToConn, Network Mode, SerialPort) and a main table displaying the inventory results. A summary panel on the right shows 'TagsReadingTime: 00:00:09', 'Counts of EPC: 16 Times', 'Counts of IID: 0 Times', and 'Counts of Tags: 161 Times'. The status bar at the bottom indicates 'CurrentSelectionDevice: COM5 0' and 'Operation result hints: Get Reader Version successful'.

No	EPC	Counts	Rssi	Ant	Dir	Dev	IP/COM
1	300833B2DD9014020170916	38	61	1			COM5
2	300833B2DD9014020170912	14	62	1			COM5
3	E2003098060020226900A1E	14	68	1			COM5
4	E2000016661401610240F2BB	18	61	1			COM5
5	E200001B2116006024901D86	2	67	1			COM5
6	E200001B211602292570D242	6	64	1			COM5
7	4D312D313030310000000000	12	68	1			COM5
8	000000000000000000F243222	11	74	1			COM5
9	341587A20800000005F65694	15	68	1			COM5
10	E2003098060021926900A37	2	74	1			COM5
11	E2003098060013126900987	5	58	1			COM5
12	341587A20811111115F65699	1	76	1			COM5
13	E20000171515023419704D49	7	65	1			COM5
14	E20000190812006013808A85	6	65	1			COM5
15	300833B20800000000000000	7	62	1			COM5
16	E20041374606023416600014	3	62	1			COM5

The screenshot shows the 'Tag Access' configuration window in the R2K_MultiDev_CS_6.01 application. The 'Operation Bank' is set to 'EPC', 'Start Address' is 2, and 'Length' is 6. The 'Data' field contains '34158 EPC 94'. Below this, there are sections for 'Lock/Unlock' (with fields for Operation Bank, Lock Type, Access Password, and Destroy Password) and 'I/O Operation' (with checkboxes for In1, In2, Out1, and Out2). The status bar at the bottom shows 'CurrentSelectionDevice: COM5 0' and 'Operation result hints: Get Reader Version successful'.



Size (Unit: mm)

