2SETS 5W 433mhz Four Channel Wireless Switch Controller Remote Control Switch Module

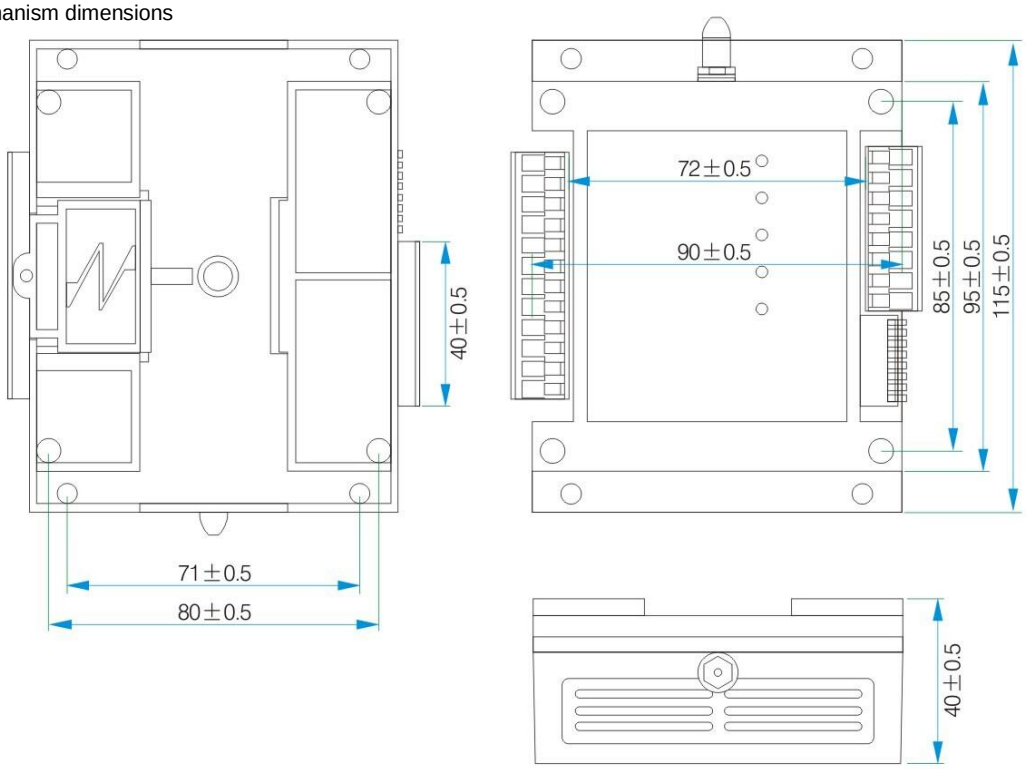
Order List
2 piece Wireless swicth control module- 433mhz
2 piece Sucker Antenna
1 piece SK509-S (Make configeration parameter) with cable
2 piece Power supply (Frequency according to module you choose) with cable
If you need 470MHz frequency, please leave a massage to confirm when you place order :)

Product description
it is an industrial four channels wireless switchcontrol module with pairing function,it provides maximum four channel signalinput and maximum four channel control output.It features in simple interfaceand reliable performance.The parameters can bemodified by PC software/UART command/remote controller(SK509-S).DIPswitch on the module can used to change operating frequency (maximum 16 group),operation mode etc. Using this module, user canreplace wired device with the wireless connection,which significantly reducethe cost and save much time.

Feature
16 predefined channel
Frequency Band:433/470/868/915MHz (Optional)
Parameters configurable by PC software/Remote controller/UART Command
GFSK modulation
Bi-directional wireless switch control
Sensitivity up to 121 dBm
Maximum output power:5W
indicater and alarm when battery low
indicator and alarm when wireless loss link
Working voltage 9~30 V
Working temperature range: - 40~+85 °c
Distanceup to 8Km in open are

Application:
Remote control switch control
Home automation remote sensing
Building automation and security
Security system
Wireless remote telemetry
Entrance guard system
Product show

Mechanism dimensions



Specification

Parameter	Min	Typ.	Max	Unit	Condition
Condition					
Working voltage	9	12	30	V	
Working temperature	-40	25	+85	℃	
Current consumption					
Rx current		<20		mA	
Tx current		<2		A	
Standby current		<5		mA	@12V timing mode Master don't send message
RF parameters					
Output power		37		dBm	
Sensitivity		-121		dBm	@2400

Pin
Pin Description
1) Four-Channel input
This module has a total of four channel signal input (IN1 ~ IN4).

2) Four Channel Relay Output
This module has a total of four channel relay output (OUT1 ~ OUT4). The state of channel output in the Rx side will be synchronized with the Tx in the same channel. The LED will light on when the relay is closed

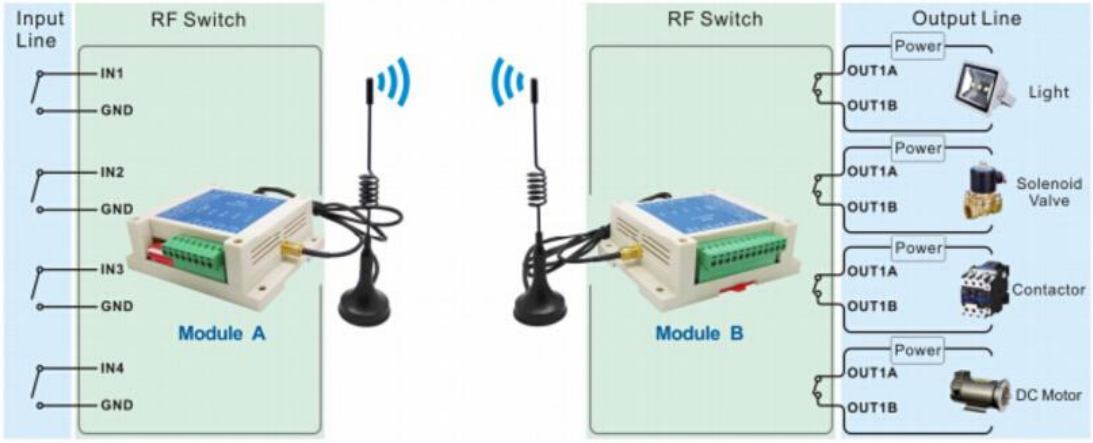
3) Dip switch Settings (valid when power on again)
DIP8 – normal working mode selection
ON – real-time mode (In this mode, when state changes in input port , it transmit signal immediately)
OFF - timing mode (Signal transmitted at the predefined time interval)
DIP7 - master/slave selection
ON - the master
OFF - the slave
DIP6 – time interval selection of timing mode
ON - slow time
OFF – fast time
DIP5 - mode selection
ON - normal working mode
OFF - setting mode

DIP4 ~ 1 - working frequency channel selection, total 16 channel, user can freely configure the actually frequency through PC software / UART Command/ Remote controller
Relationship between Dip switch state and working frequency channel

DIP NO.	Channel No.	DIP NO.	Channel No.	DIP NO.	Channel No.	DIP NO.	Channel No.
	1		5		9		13
	2		6		10		14
	3		7		11		15
	4		8		12		16

Application connection:

The input port is pulled up internally, leave open or connect with 3.3V will result in high level, it is low level when connect to GND.
High level will make the output of the other side short out. And low level will make the output of the other side open. Below is regular connection：

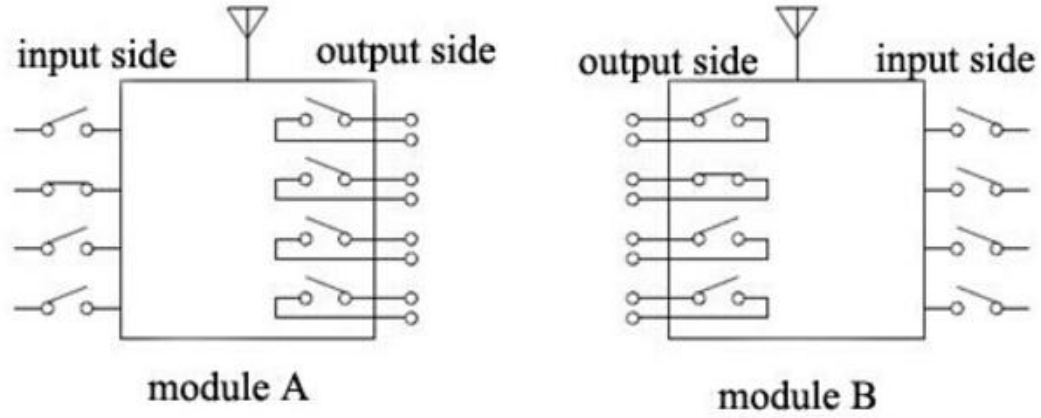


Shorts between INx of A and GND, OUTx relay of B will be actuation, Open INx from GND, OUTx relay of B will open.

Function Description:

Module can work in the following two modes:

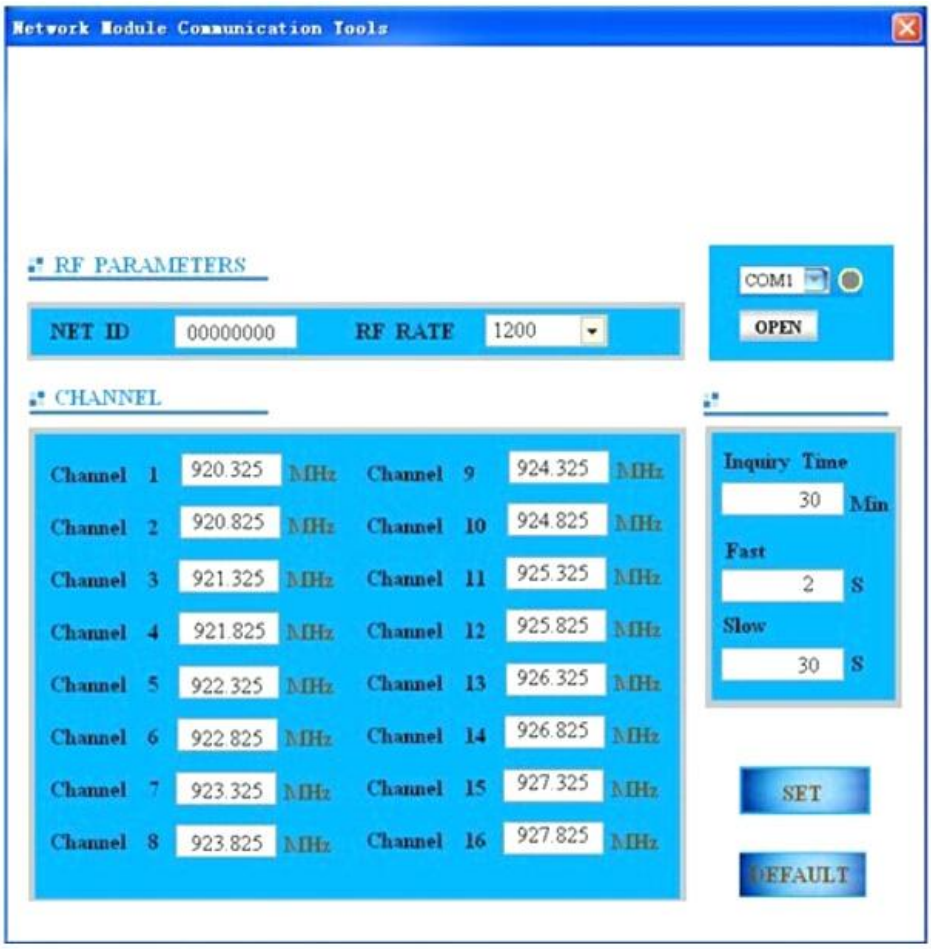
A) real-time working mode
In real-time mode, the module will monitor the four input port status, after status changes, wireless signals will be sent immediately, then in Rx side the corresponding relay status will be synchronized after receiving the signal. Show as below:



Also in this mode, the slave will regularly send inquiries to the master for link status. If no acknowledged signal come to the master, the alarm LED will light on, after the inquiry time is over and all the output relays will be resumed open.

B) Timing mode
In timing mode, the master regularly transmits the signal of the input state. If the slave has not received the master's signal 5 times interval (fast/slow time) , the LED will light on, and all the output relays will be resumed open..

C) Configuration mode:
In configuration mode, user can configure the parameters by PC software/UART command /remote controller SK108-S. The diagram of PC software is shown below:



Distance test: