

## 2SETS 5W 433mhz 4 kanal-kabellose Schalter-Controller Fernbedienung Modul+Antenne

What is in the box:

2pcs modules  
2pcs antennas  
2pcs adaptor

Item specifics

Frequency Band : :433 ,470,868,915MHz(Optional)  
Sensitivity up to:121 dBm  
Maximum output power::1 W  
Working voltage :9 ~ 18 V  
Working temperature range: :- 40 ~ + 85 ° C  
16 predefined channel :16 predefined channel  
modulation :GFSK  
channel :Four channel

Description

it is a industrial four channel wireless switch controller, it provides maximum four channel signal input and maximum four channel control output.The parameters can be modified by PC software/ UART command /remote controller. It features simple interface and reliable performance.Using this module,user can replace wired device with the wireless connectio,which significantly reduce the cost and save much time.

Feature:

- \*3000M transmission distance
- \*16 predefined channel
- \*Band of 433 ,470,868,915MHz
- \*Parameters can be configurated
- \*GFSK modulation mode
- \*Antenna automatic matching and two-way switch control
- \*Sensitivity up to 121 dBm
- \*Maximum output power: 1 W
- \*Voltage signal alarm
- \*Working voltage 9 ~ 18 V
- Working temperature range: - 40 ~ + 85 ° C

Application:

- \*Remote control switch control
- \*Home automation remote sensing
- \*Building automation and security
- \*Security system
- \*Wireless remote telemetry
- \*Entrance guard system

**Specification**

Parameter	Min	Typ	Max	Unit	Condition
Condition					
Working voltage	9	12	18	V	
Working temperature	-40	25	+85	°C	
Current consumption					
Rx current		<20		mA	
Tx current		<200		mA	
Standby current		<7		mA	
RF parameters					
Output power		30		dBm	
Sensitivity		-121		dBm	@1200

**Pin Configuration**

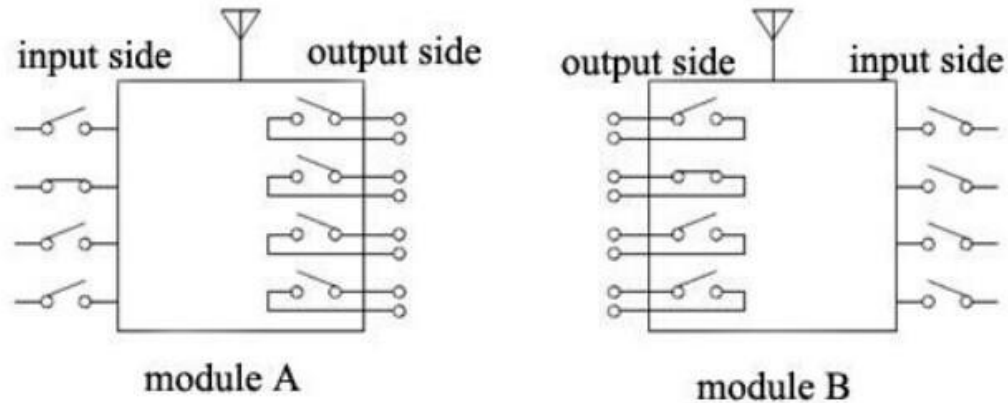
<b>Pin NO.</b>	<b>Pin</b>	<b>Description</b>
1	GND	Power Ground
2	VCC	Connect positive power
3	IN1	Ch1 switch input, internal pull up
4	GND	
5	IN2	Ch2 switch input, internal pull up
6	GND	
7	IN3	Ch3 switch input, internal pull up
8	GND	
9	IN4	Ch4 switch input, internal pull up
10	GND	
11	NC	Vacant, not connected
12	NC	Vacant, not connected
13	OUT1	Ch1 relay control output, closed : low level in Tx Open : high level in Tx
14		
15	OUT2	Ch2 relay control output, closed : low level in Tx Open : high level in Tx
16		
17	OUT3	Ch3 relay control output, closed : low level in Tx Open : high level in Tx
18		
19	OUT4	Ch4 relay control output, closed : low level in Tx Open : high level in Tx

## 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 comes 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. The diagram of PC software is shown below:

