

8 CH communication protocol description (Ver.4)

Serial port Settings: 9600 baud, 8 data bits, 1 stop bits, no parity bit.

Data frames : each data frame contains 8 bytes. data, address, function code, four bytes of data, the checksum

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client-side :

The first data byte 0x55

The target address byte

function code byte 0x13 : According to the actual sending

Four bytes of data: sending the first byte first, and then the second, three, four bytes

Checksum byte, will be in front of all the data together

Function code :

0x13 : fourth bytes of data, a total of eight representative 16 road, 1 and 0: disconnect (according to the actual setting of all relays)

Check and add befor of all the data together to get (corresponding bit addition, pay attention to carry)

target board

:

data head one bytes 0x22

Address one bytes

data type one bytes 0

date four bytes :

date 0 insignificance

date 1 insignificance

date 2 For extended to 16 road

date 3 the state of the eight road relay

checksum add befor of all the data together to get (corresponding bit addition, pay attention to carry)

FOR EG: (Assumes that the address is 1)

client-side send :

55 01 13 00 00 00 00 69 Disconnect all eight road relay :0B 0000 0000 (Each one bytes means one

way)

If you want close write 1

Each one close :

55 01 13 00 00 00 01 6A close the first relay : 0B 0000 0001

55 01 13 00 00 00 02 6B second : 0B 0000 0010

55 01 13 00 00 00 04 6D third : 0B 0000 0100

55 01 13 00 00 00 08 71 . : 0B 0000 1000

55 01 13 00 00 00 10 79 . : 0B 0001 0000

55 01 13 00 00 00 20 89 . : 0B 0010 0000

55 01 13 00 00 00 40 A9 . : 0B 0100 0000

55 01 13 00 00 00 80 E9 eighth : 0B 1000 0000

If you want close four relay write 1 , EG: : CLOSE 1234 RELAY

55 01 13 00 00 00 0F 78 : 0B 0000 1111 then 1234 will close

If you want open four way write 0 , ;

target board answer :

22 01 00 00 00 00 XX HH

Address is "1" relay board

The state of the 8 CH relay use XX , XX means 8CH Relay real-time

status ,one bit means 1CH relay ,the 0 bit means the first relay ,

the 1 bit means second relay ,o

Serial debugging assistant :

First byte : data head : 0x56

Second : target address: 0x01

Third : function code: 0x13 :

Fourth : Data bytes : keep

Fifth : Data bytes : keep

Sixth : Data bytes : choose relay : each one means one channel , 1 means choose this channel , 0 not selected

The first bit means the first relay , the second bit means the second relay

seventh : Data bytes : relay switch : the 0 bit means first relay , 0 means the first relay off , 1 means the first relay on. the 1 bit means second relay 0 means the second relay off, 1 means the second on.

eighth : checksum : 1-7 bytes add sum, and take the eighth number

target board answer :

22 01 00 00 00 00 XX HH

Address is "1" relay state of the eight relay use XX, XX means of the eight relay real-time status, each one means one relay.the 0 bit means the first relay . the 1 bit means the second relay

HH checksum

EG :

Separate control each code is as follows :

Close 1 channel : 56 01 13 00 00 01 01 6C

Open 1 channel : 56 01 13 00 00 01 00 6B

Close 2 channel : 56 01 13 00 00 02 02 6E

Open 2 channel : 56 01 13 00 00 02 00 6C

Close 3 channel : 56 01 13 00 00 04 04 72

Open 3 channel : 56 01 13 00 00 04 00 6E

Close 4 channel : 56 01 13 00 00 08 08 7A

Open 4 channel : 56 01 13 00 00 08 00 72

Close 5 channel : 56 01 13 00 00 10 10 8A

Open 5 channel : 56 01 13 00 00 10 00 7A

Close 6 channel : 56 01 13 00 00 20 20 AA

Open 6 channel : 56 01 13 00 00 20 00 8A

Close 7 channel : 56 01 13 00 00 40 40 EA

Open 7 channel : 56 01 13 00 00 40 00 AA

Close 7 channel : 56 01 13 00 00 80 80 6A

Open 7 channel : 56 01 13 00 00 80 00 EA