

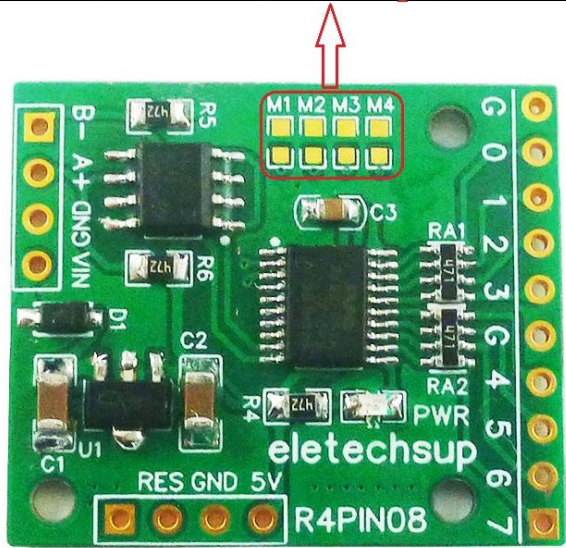
R4PIN08 8ch RS485 Multifunctional DI-DO Module

1. Features:

- 1 Power supply1: DC 6-25V(anti-reverse);Power supply2: DC 4-5V(reverse connection prohibited)
- 2 Working current: 7-13MA
- 3 MODBUS RTU function codes: Write 05/06/15/16, Read 01/02/03
- 4 Five function IO modes can be selected by jumper: 8DI/8DO/4DI-4DO/2DI-6DO/6DI-2DO
- 5 By modifying the 0X00F5/0X00F6 register, the input and output levels (NPN/PNP) can be switched
- 6 Input mode: Support 3.3V/5V TTL level input, there are two input modes of low level input (default) and high level input
- 7 Output mode: 5V TTL level, low level (default) / high level output
- 8 In MODBUS command mode, it can support up to 247 devices in parallel
- 9 Input port status supports query (default) and automatic reporting
- 10 BaudRate:1200 2400 4800 9600(default) 19200 38400 57600 115200, None/Odd/Even Parity
- 11 2.54MM pin header interface, easy to use Dupont wire or breadboard connection
- 12 Size: 30*25.4*2(Very Small and Very Thin)
- 13 Weight: 3grams(Very Light)

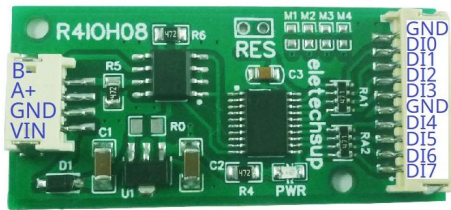
This module is a multi-function board, you can select various function modes through jumpers
(The jumper uses 0603 0Ω resistor (or wire))

Jumper					
Soldering					
Function	8DI	8DO	4DI-4DO	2DI-6DO	6DI-2DO

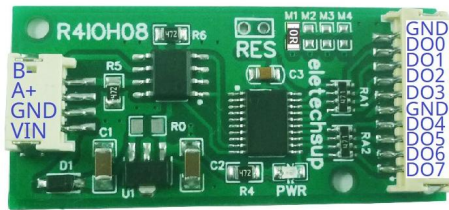


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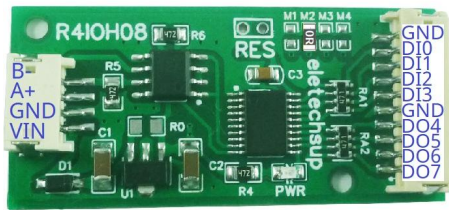
PIN ORDER OF EACH VERSION



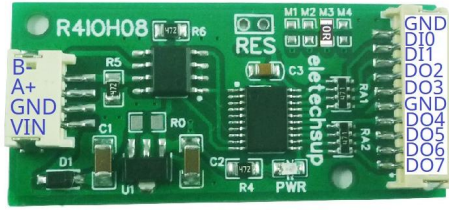
8DI



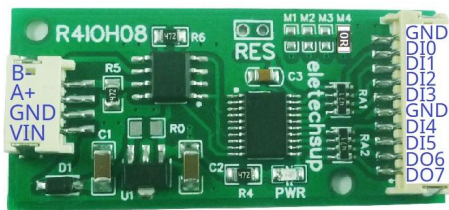
8DO



4DI-4DO



2DI-6DO



6DI-2DO

Different Versions of Pin Definitions

For MODBUS RTU command details, see:
“R4PIN08 MODBUS RTU Command”



NPN Input & NPN Output(Register 0X00F5=0,0X00F6=0,Default)



PNP Input & NPN Output(Register 0X00F5=1,0X00F6=0)



NPN Input & PNP Output(Register 0X00F5=0,0X00F6=1)



PNP Input & PNP Output(Register 0X00F5=1,0X00F6=1)

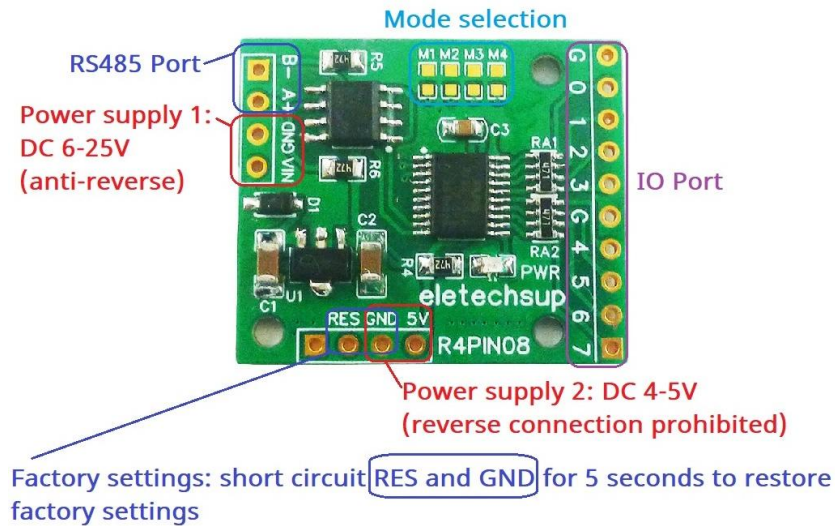
By modifying the 0X00F5/0X00F6 register, various input and output levels (NPN/PNP) can be switched

NPN Input & NPN Output(Register 0X00F5=0,0X00F6=0,Default)

PNP Input & NPN Output(Register 0X00F5=1,0X00F6=0)

NPN Input & PNP Output(Register 0X00F5=0,0X00F6=1)

PNP Input & PNP Output(Register 0X00F5=1,0X00F6=1)



illustrate:

- 1 2 Power interfaces, only use one of them
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