

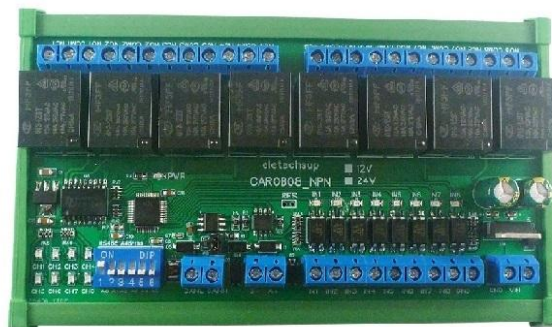
CAROA04 CAROB08 CAROC16 CAN RS485 Relay Module Mamual

4DI-4DO



Size : 88* 72 * 12mm(Only Board);
94* 82*40mm(with Din Rail Box)
Weight: 73g(Only Board);
141g(with Din Rail Box)

8DI-8DO



Size: 140* 72 * 12mm(Only Board);
146* 82*40mm(with Din Rail Box)
Weight: 130g(Only Board);
232g(with Din Rail Box)

16DI-16DO



Size: 255* 82*40mm(with Din Rail Box)
Weight: 410g(with Din Rail Box)

Features:

- 1:DC 12V (12V Version),DC 24V (24V Version)
- 2.Standby current (all relays closed) 10-14MA, 1 relay open 40MA, 2 relays open 70MA, 3 relays open 96MA,4 relays open 121MA,5 relays open 150MA,6 relays open 174MA, 7 relays open 200MA,8 relays open 226MA...
- 3:4/8/16 photoelectric isolation Input ports (NPN low level active,8CH have PNP input versions).
The input-output relationship can be set to various association modes through instructions(Self-lockingdefault)/Interlocking/Momentary/Interlocking/Output=Input)
- 4: RS485 Interface Support standard Modbus RTU command, function code, write 05/06/15/16 read 01/02/03
- 5 CAN Interface Support Standard Frame /Extended Frame Format(For protocol details, see"CAROA04 CAROB08 CAROC16 CAN COMMAND")
- 6: With hardware reset function, with TVS anti-surge protection
- 7 :4/8/16 opto-isolated inputs (NPN/PNP), 4/8/16 relay outputs (upgraded relays, more durable)

8 MODBUS commands can be made serial HyperTerminal (serial assistant) OR "Modbus Poll"Enter;

9 Under the MODBUS command mode, it can support up to 64 devices in parallel

10 RS485 baud rate is 9600BPS. The baud rate can be selected by Command 2400 4800 9600 19200 38400 57600 115200BPS

11 The RS485 parity can be none parity, even parity and odd parity

12 The CAN default baud rate is 250Kbps, which can be set to 5-1000KBPS by command

13 The data sending and returning time can be set, with a maximum value of 1000ms

14 Maximum load: 10A / 250VAC, 10A / 125VAC, 10A / 30VDC, 10A / 28VDC, 10A / 12VDC

4DI-4DO CAROA04

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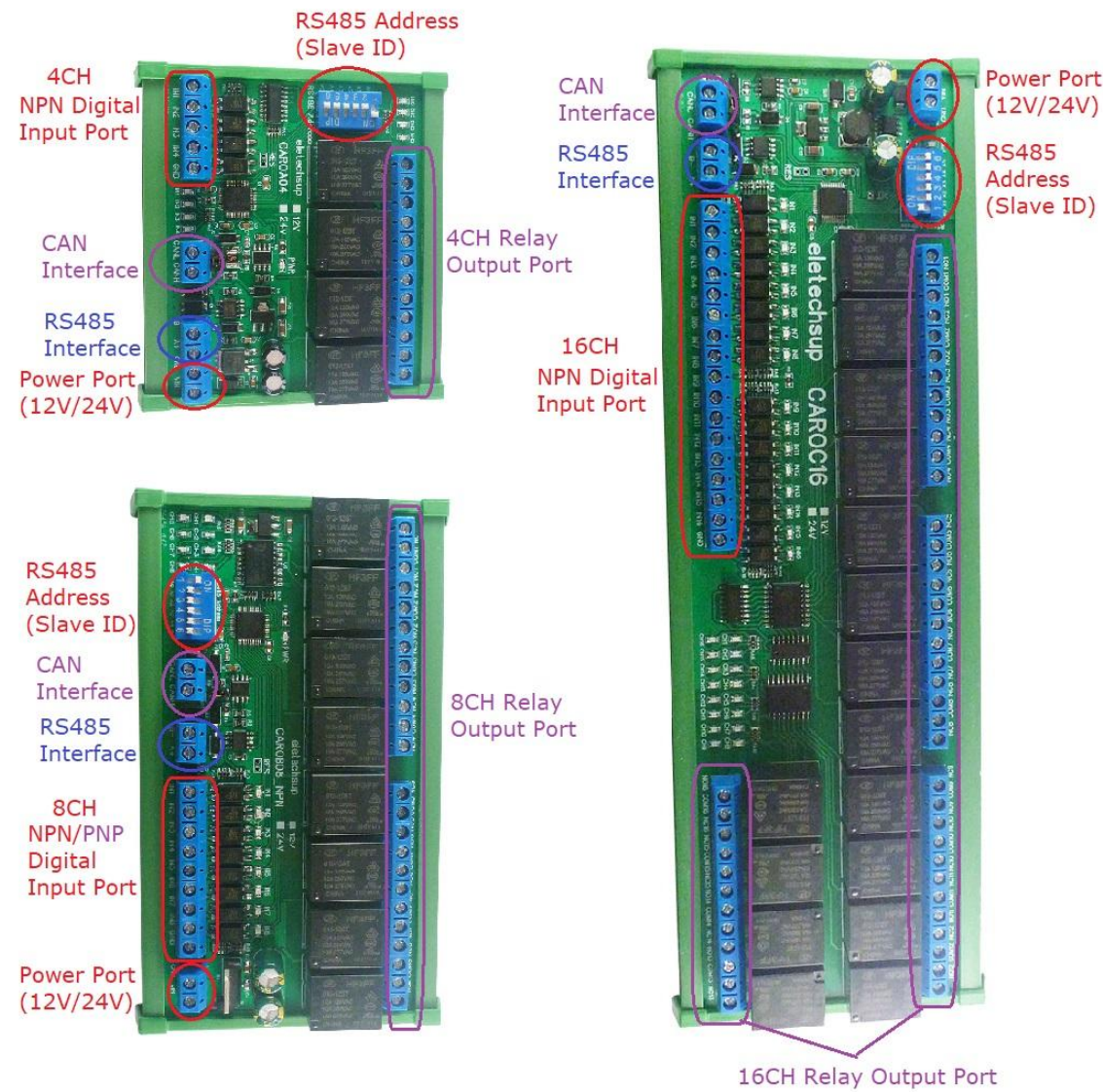
Weight: 130g(Only Board);232g(with Din Rail Box)

16DI-16DO CAROC16

Size: 255* 82*40mm(with Din Rail Box)

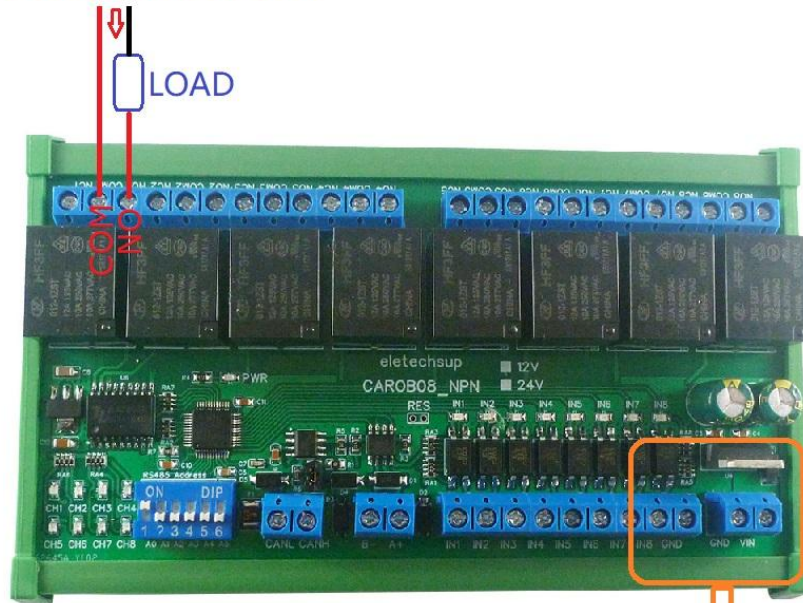
Weight: 410g(with Din Rail Box)

Resource description for each version



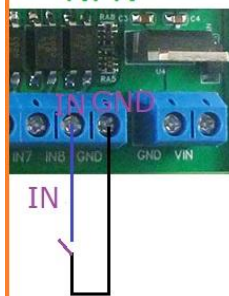
Input and output wiring diagram

DC 1-110V OR AC85-265V

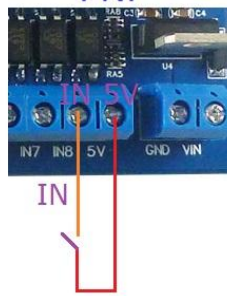


Wiring mode of switch

NPN

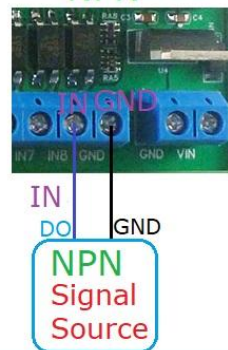


PNP



Wiring mode of digital signal source

NPN



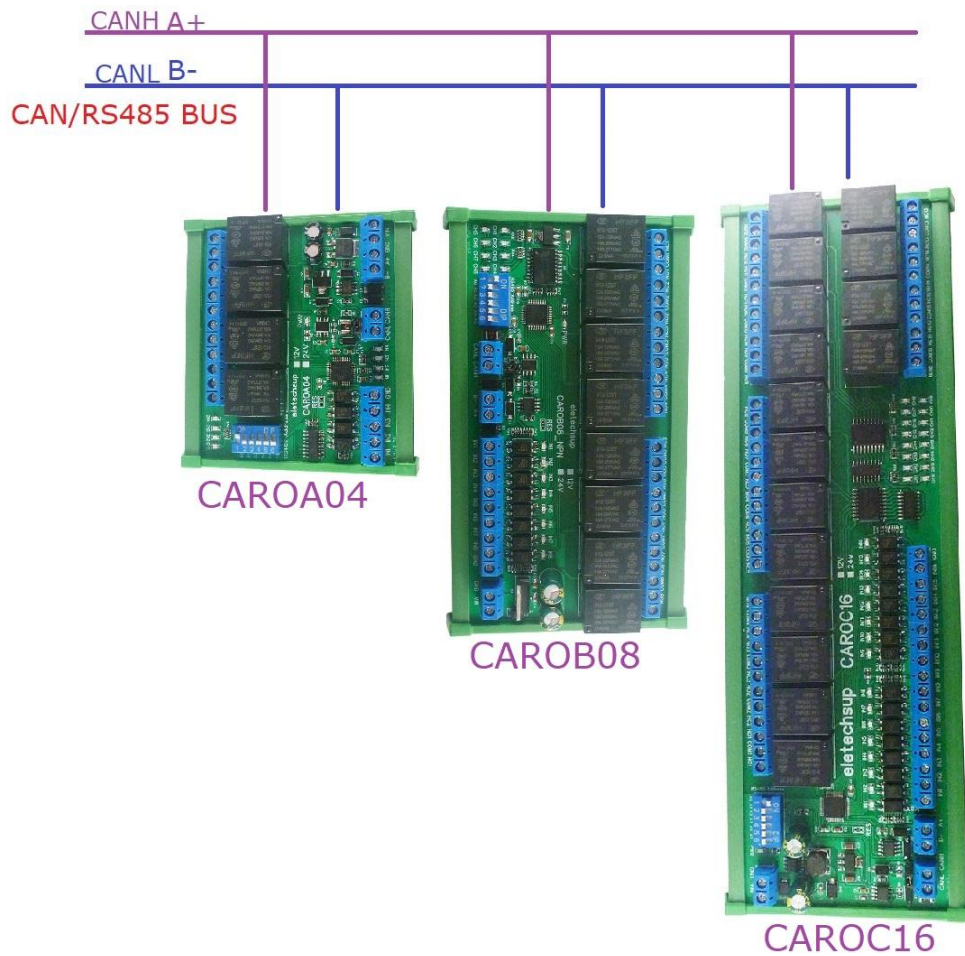
PNP



The protocols of CAN and RS485 buses are different, but they can be used at the same time, and the IO ports can be controlled at the same time

CAN bus command details:" CAROA04 CAROB08 CAROC16 CAN COMMAND"

RS485 bus command details:" CAROA04 CAROB08 CAROC16 RS485 MODBUS RTU COMMAND"



CAN Command Control Guidelines

1. Connect the CANL CANH two wires of the CAN bus
- 2 Provide 12V/24V power supply to the board (according to the version you purchased)

(Factory Setting: Address Code 0x01, Baud Rate 250Kbps)

Example 1, set channel 1/8/16 to ON and other channels to OFF:

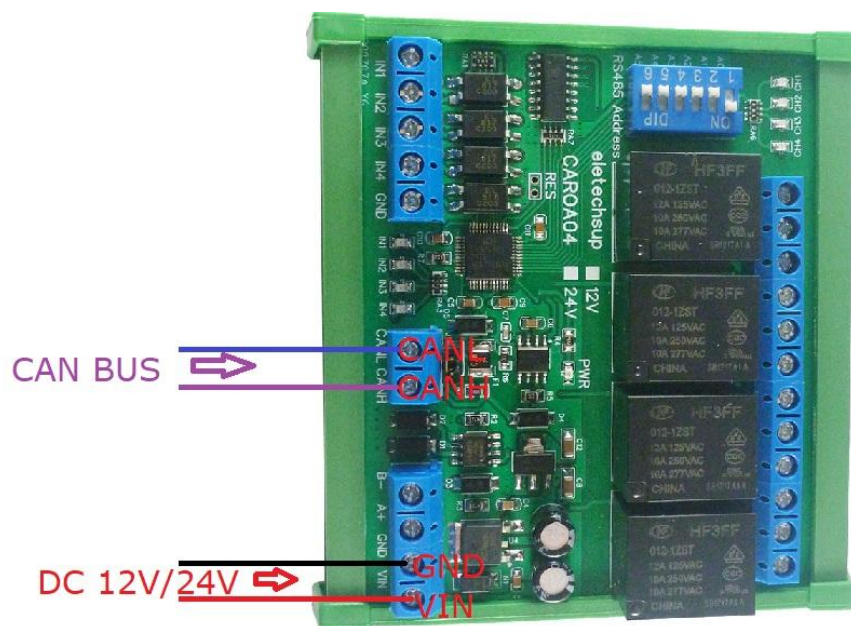
Send data(HEX): 01 01 81 80 00 00 00 00 00

Return data(HEX): 01 01 81 80 00 00 00 00 00

Example 2, set channel 2/7/11/15 to ON and other channels to OFF:

Send data(HEX): 01 01 42 44 00 00 00 00 00

Return data(HEX): 01 01 42 44 00 00 00 00 00



CAN Command Control Guidelines:

1. Connect the CANL CANH two wires of the CAN bus
- 2 Provide 12V/24V power supply to the board (according to the version you purchased)

(Factory Setting:

Address Code 0x01, Baud Rate 250Kbps)