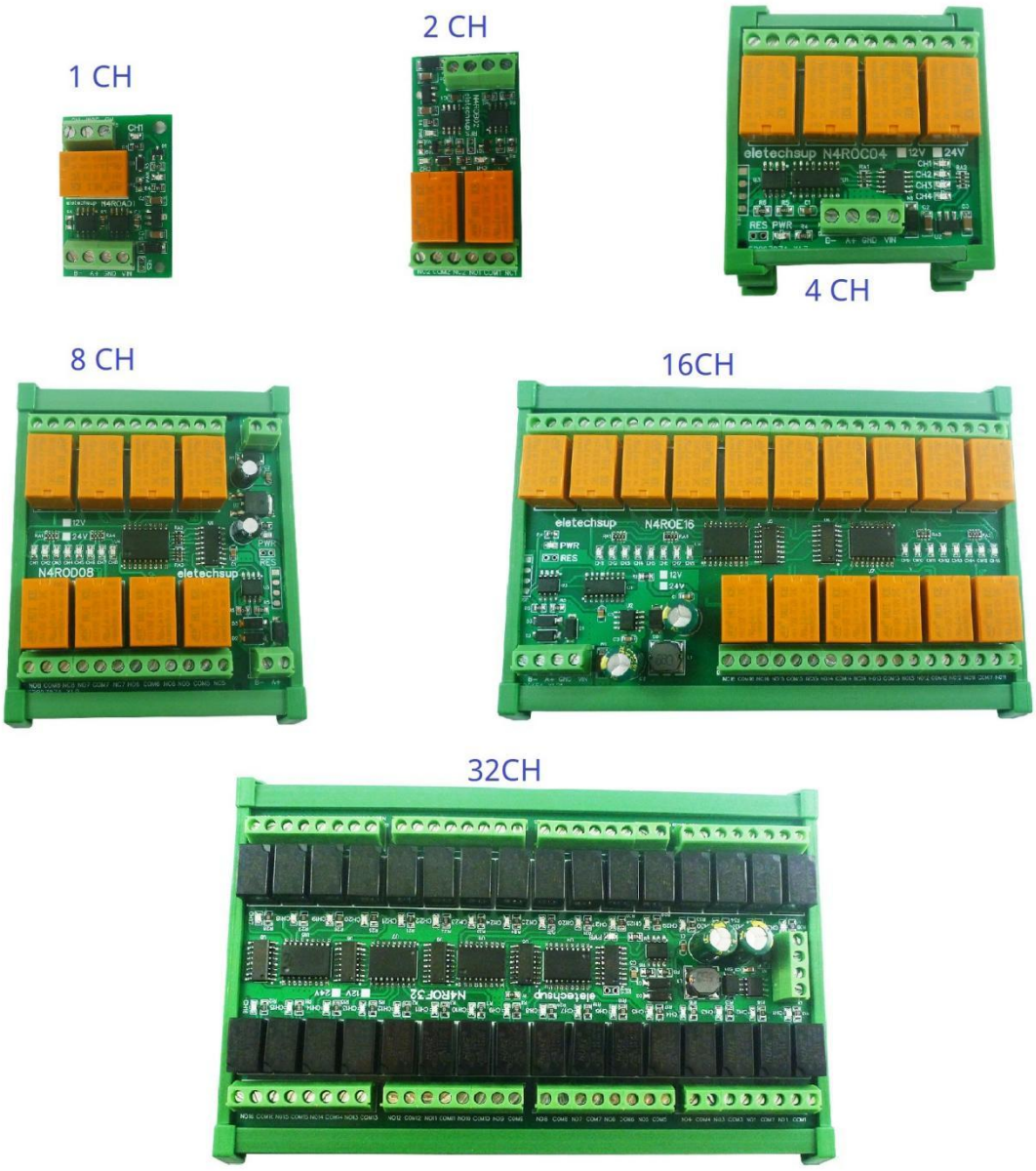
N4ROA01_N4ROB02_N4ROC04_N4ROD08_N4ROE16_N4ROF32

1-32 channel RS485 small relay module manual



Features

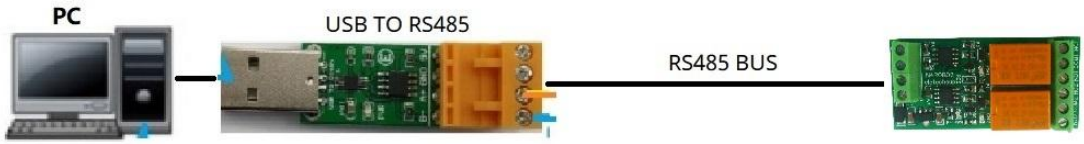
Channels	1	2	4	8	16	32
SKU	N4ROA01	N4ROB02	N4ROC04	N4ROD08	N4ROE16	N4ROF32
Working Voltage	Two voltage versions :DC 12V/24V					
Stand-by Current	6MA(12V)				4MA(12V)	
Relay ON Current (/ Channel)	18MA(12V)					16MA(12V)
Protection	Power supply anti-reverse protection			Power supply anti-reverse protection RS485 TVS anti-surge protection		
Modbus RTU Function code	Write 05/06/15/16, Read 01/03					
Baud Rate	1200/2400/4800/9600(Default)/19200/38400/57600/115200BPS					
Parity	None(Default)/Even/Odd					
DIN Box	Without		Optional with DIN BOX			
Size(MM) Only Board	40*27*14 MM	54*26*14 MM	52*50*14 MM	67*72*14 MM	124*72*14 MM	142*80*12MM
Size(MM) With DIN Box			56*62*34 MM	69*88*38 MM	127*88*38 MM	145*88*36MM
Weight(gram) Only Board	11g	17g	30g	59g	114g	138g
Weight(gram) With DIN Box			60g	115g	208g	238g
Relay size(MM)	15.5*10.5*11.8MM					12.5*7.5*10.3 (very small size)
Relay Contacts	NC COM NO					COM NO
Relay Load Current	3A/250VAC ,3A /30VDC					2A/120VAC 2A /24VDC

Please refer to the MODBUS RTU protocol manual:

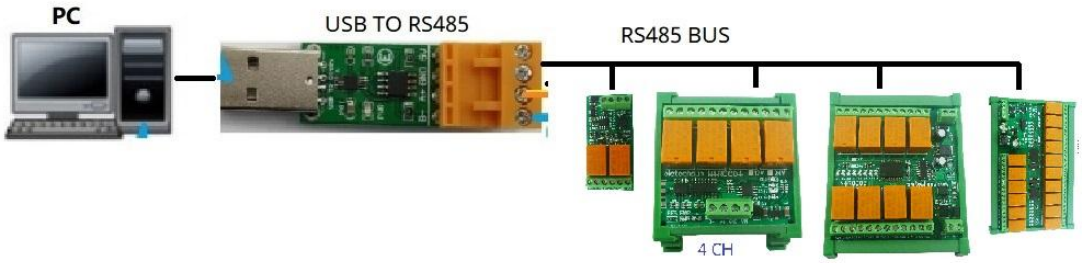
“N4ROA01_N4ROB02_N4ROC04_N4ROD08_N4ROE16_N4ROF32 MODBUS RTU Commamd”

Wiring Diagram(All versions are the same principle)

MODBUS function codes : Write 05/06/15/16, Read 01/03



1 Use USB to RS485 to control a single board for setting parameters (RS485 address)



2 Use USB to RS485 to control multiple boards, each board needs to be set to a different RS485 address

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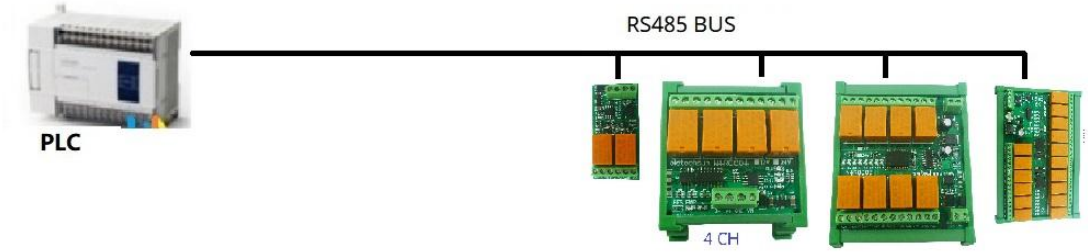
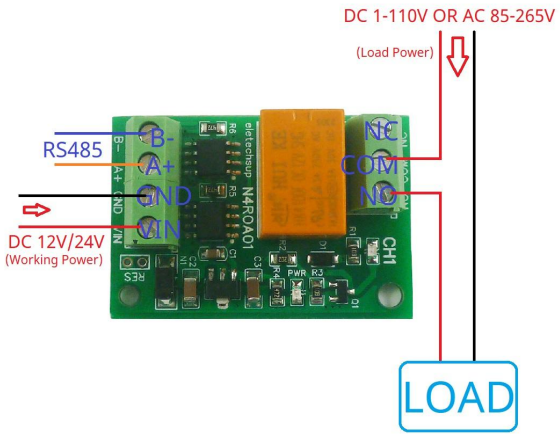


3 Use the RS485 interface of the PLC to expand the external output port, and each board needs to be set to a different RS485 address



Resistive load within 3A or inductive load within 1A

Resistive load within 3A or inductive load within 1A

Motor Forward & Reverse wiring diagram

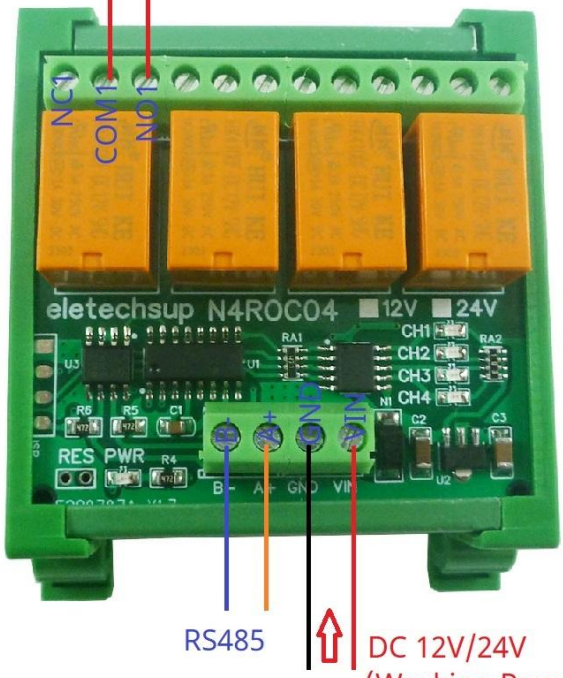
Modbus RTU Command:
Forward : 01 06 00 00 04 00 8B 0A
Reverse : 01 06 00 01 04 00 DA CA
Stop : 01 06 00 00 08 00 8E 0A

Resistive load within 3A or inductive load within 1A

Load Power : DC 1-110V OR AC 85-265V

Note:Resistive load within 3A
or inductive load within 1A

LOAD



RS485

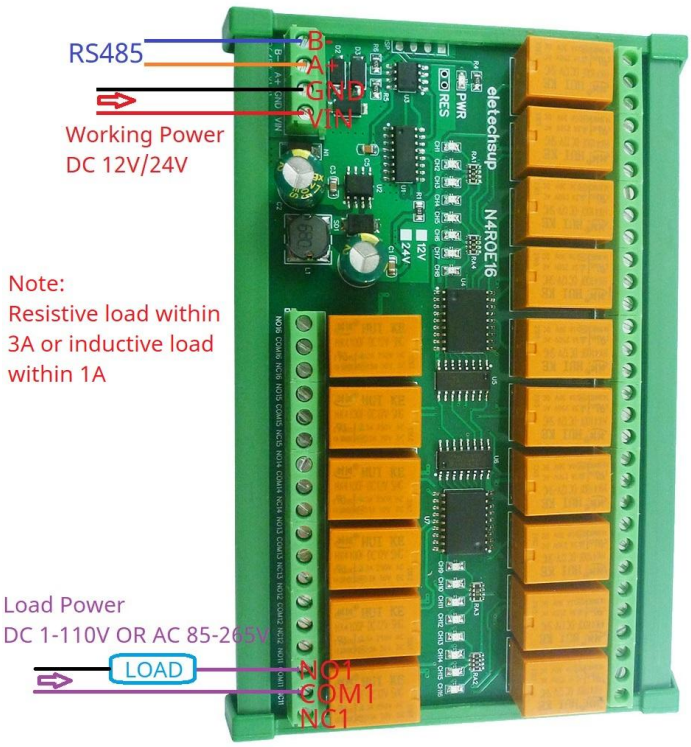
DC 12V/24V
(Working Power)

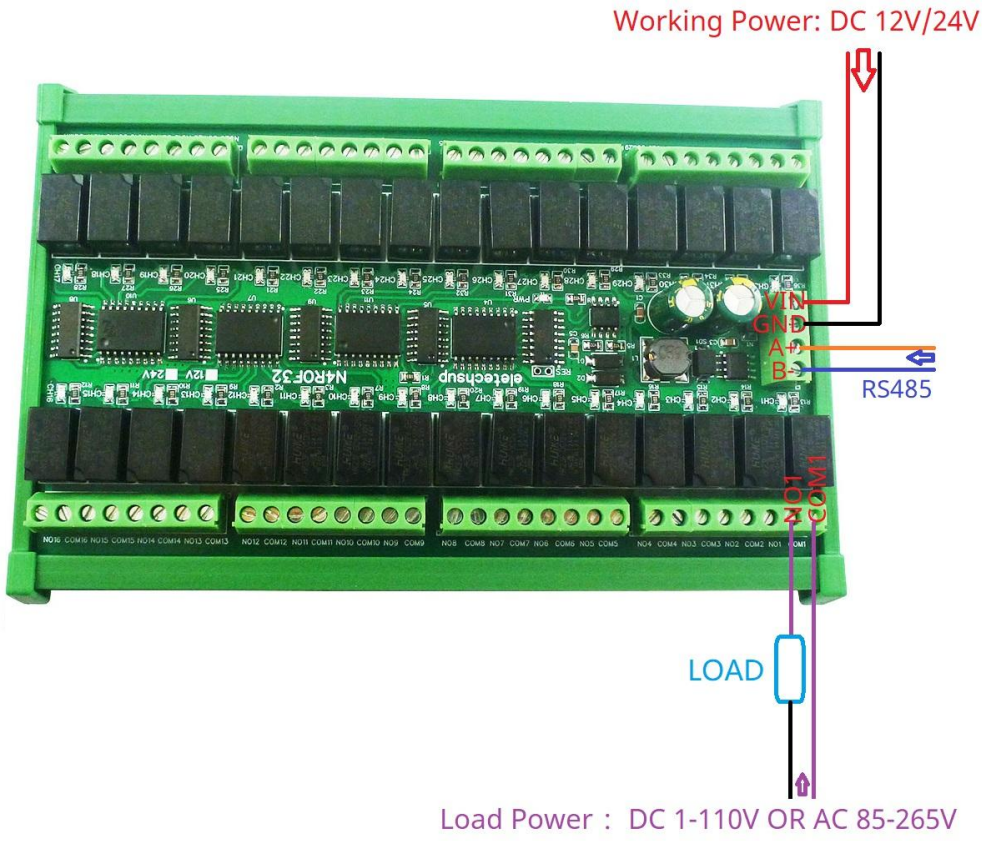
Load Power: DC 1-110V OR AC 85-265V

Working Power
DC 12V/24V

RS485

NOTE:Resistive load within 3A or inductive load within 1A


RS485
B-
A+
GND
VIN
Working Power
DC 12V/24V
Note:
Resistive load within
3A or inductive load
within 1A
Load Power
DC 1-110V OR AC 85-265V
LOAD
NO1
COM1
NC1


Working Power: DC 12V/24V
VIN
GND
A+
B-
RS485
NO1
COM1
LOAD
Load Power： DC 1-110V OR AC 85-265V