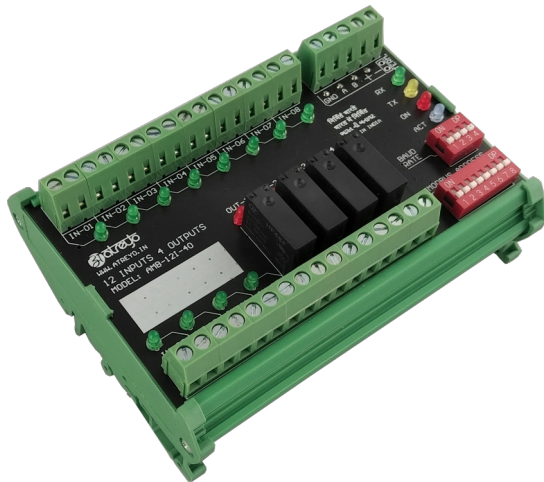


12 input 4 output expander with Modbus

AMB-12I-4O



Features

- 12 × 5-30V DC digital inputs
- 4 × NO relay outputs
- Baud rate: 9600 - 128000
- Modbus addresses: 8 bit
- RX/TX and activity indicators
- Powered 8-36V DC or 8-24V AC
- DIN rail mounting

The AMB-12I-4O input/output expander with Modbus RTU interface. It has 12 isolated digital inputs with voltage range up to 30VDC and 4 relay output with 5A 230V range and NO

contacts. The power supply range is 8 to 36V and accept DC or AC voltage. The use of DC / DC technology for supplying relays enables a wide range of supply voltages.

Description	Parameter
Serial Interface	
Interface Type	RS485
Data Rate	2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, 115200, 128000 bps
Signals	A, B and GND
Data Length	8 bits
Parity	None
Stop Bits	1
Baudrate setting	4 way DIP switch
Address setting	8 way DIP switch
Connector	Screw connector, 28÷12AWG / 2.52mm
Digital Inputs	
Input number	× 12
Input type	Opto-isolated Opto-isolated 3.7kV
Configuration	Every input separate
VIN _{max}	30V DC
Logic 1 Voltage range	3V to VIN _{max}
Connector	Screw connector, 28÷12AWG /

Description	Parameter
	2.52mm
Digital outputs	
Output number	× 4
Configuration	Potential free, relay NO
Voltage and Load	3A 230V AC and 3A 30V DC
Connector type	Screw connector, 28÷12AWG / 2.52mm
Indicators	
Inputs indicators	× 12 3mm LED green
Outputs indicators	× 4 3mm LED red
RX/TX	× 2 3mm LED yellow/green
Power	× 1 3mm LED red
Activity	× 1 3mm LED blue
Power supply	
Supply voltage	8-36V DC or 8-24V AC
Power consumption	1.5W (all relay ON) 0.5W (relays off)
Connector type	Screw connector, 28÷12AWG / 2.52mm

Description	Parameter
Physical Characteristics	
Installation	DIN-Rail mounting
Housing	PVC
Dimensions (L×W×H)	120mm × 90mm × 50mm
Weight	160g
Environmental Specification	
Operating Temp.	-10 ~ 75°C (-14 ~ 167°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Ambient RH	5% to 95% (non-condensing)

Model selection chart

Sn.	Model	Description
1	AMB-12I-40	Default specification

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