CJ-8DI8DO-MN

8×DI + 8×DO + 2×100M Ethernet Ports DIN Rail NPN Remote I/O



- 8 × DI channels, wet contact input (NPN). Support input filtering and input hold, ensuring signal stability and measurement accuracy
- 8 × DO channels, wet contact output (NPN)
- 2 × 100M copper ports
- Support Modbus TCP protocol. Support remote acquisition of DI channel status and remote control of DO channel status via a Modbus TCP master
- Support multiple Modbus function codes, including 0x02, 0x03, and 0x04 for DI, and 0x01, 0x03, 0x05, 0x06, 0x0F, and 0x10 for DO
- Support multiple configuration software connections to expand PLC controller I/O points
- DC 9~36V power input, reverse polarity protection
- High-strength aluminum alloy housing, IP40-rated housing protection
- -40℃ to 75℃ operating temperature range

Product Description

CJ-8DI8DO-MN is an integrated remote I/O controller supporting Modbus TCP protocol. It enables Modbus TCP protocol-based acquisition or control of I/O states. This product provides 2 × 100M copper ports, 8× DI inputs, and 8 × DO outputs, supporting DC 9~36V power input.

Constructed with industrial-grade components and manufactured under stringent system design and production controls, this industrial remote I/O module features a 35mm standard DIN rail mounting, a high-strength aluminum alloy housing for rugged durability, and a fanless design for thermal management. Operating within a wide temperature range of -40℃ to +75℃, its high-standard industrial protection ensures reliability in harsh environments with stable communication performance.

CJ-8DI8DO-MN supports WEB management functions and multiple network protocols, including Modbus TCP, watchdog, input filtering, DO control, restart hold, I/O status, network logging, DHCP client, user password, system information, online restart, and upgrade. The product has passed rigorous functional, high/low temperature, safety, and EMC testing to meet complex network and harsh industrial environment requirements. It is widely applicable in integrated energy, smart cities, intelligent transportation, smart factories, industrial automation, and other fields.

Technical Specifications

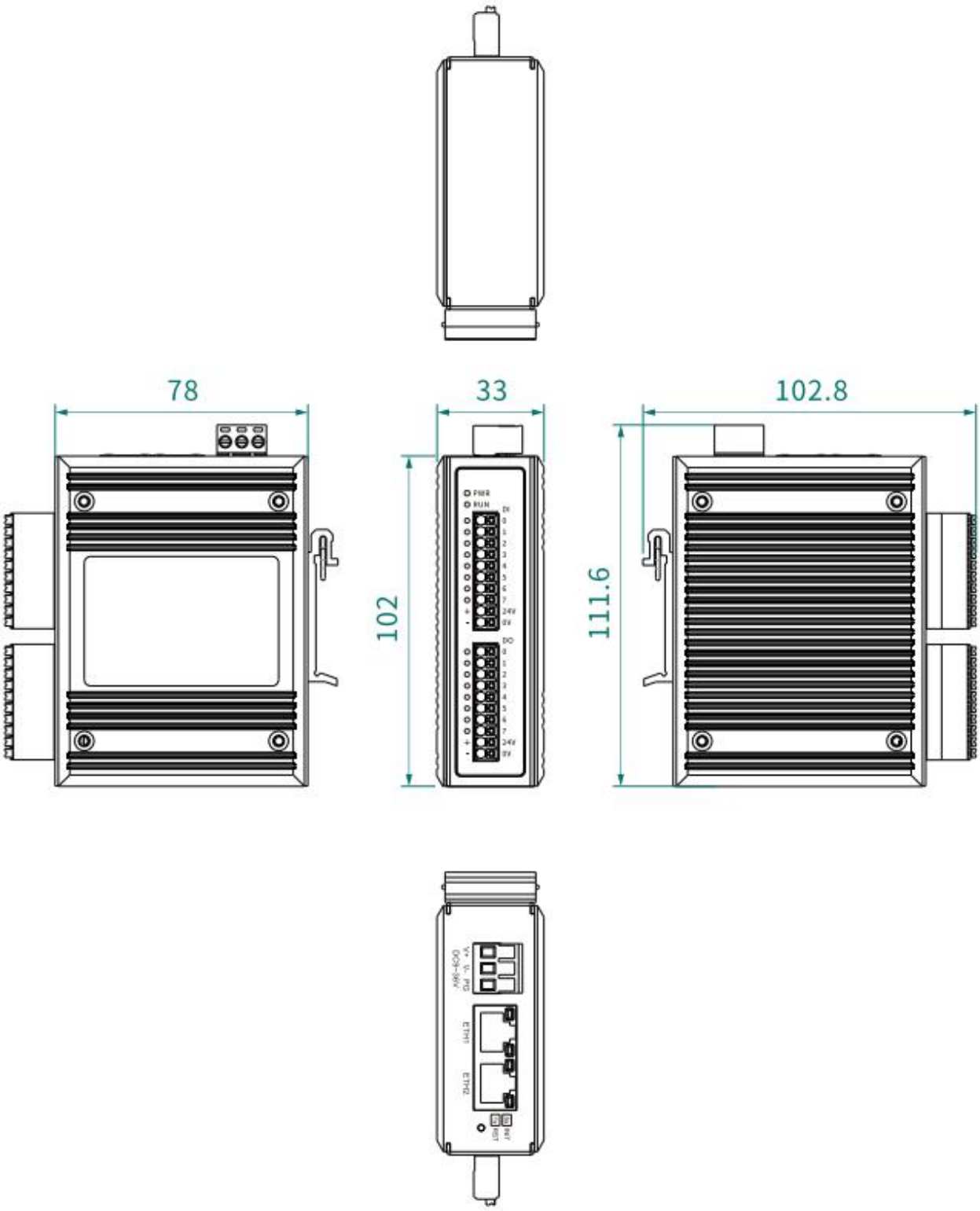
Software	
Management	Support Modbus TCP protocol, up to 8 Modbus TCP master stations connected simultaneously Support Modbus watchdog time, TCP timer keep alive Support DI input filtering, input hold Support DO state control, restart hold Support DI and DO state monitoring
System Management	Support static IP, DHCP client Support user password, system information Support network log remote host monitoring Support online restart, factory reset, device upgrade
Interface	
100M Copper Port	2 × 10/100Base-T(X) auto-sensing RJ45 copper ports full/half duplex, auto MDI/MDI-X
DI	Number of channels: 8 × DI digital inputs Connection method: 10-bit 3.5mm pitch terminal blocks Modbus function code: 02, 03, 04 Rated voltage: DC24V (DC18~30V) Input type: wet contact NPN (Logic level 0: no external power input; Logic level 1: DC 0~3V external power input) Input filtering: 0~20ms Isolation protection: 500VAC (Opto-isolation)

DO	Number of channels: 8 × DO digital outputs Connection method: 10-bit 3.5mm pitch terminal block Modbus function code: 01, 03, 05, 06, 15, 16 Rated voltage: DC24V (DC18~30V) Output type: wet contact NPN Rated current: 500mA (single channel) Load type: resistive load, inductive load Isolation protection: 500VAC (Opto-isolation) Interface protection: overvoltage, overcurrent, overload protection
Button	One-click restart or factory reset
Indicators	Power indicator, operation indicator, DI indicator, DO indicator, copper port speed and connection status indicator
Power Supply	
Power Input	DC 9~36V
Power Consumption	<1.5W@DC24V (Full load)
Connection	3-pin terminal block with 5.08mm pitch
Protection	Reverse polarity protection
Physical Characteristics	
Dimensions	102×33×78 mm (excluding DIN Rail mounting clip and connector)
Installation	Easy installation on 35mm DIN rails
Protection	High-strength aluminum alloy housing, IP40 protection grade
Weight	About 0.27 kg
Working Environment	
Operating Temperature	-40℃~+75℃

Storage Temperature	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 3 (contact discharge ±6kV, air discharge ±8kV) IEC 61000-4-5 (Surge): Level 3 (power supply: common mode ±2kV, differential mode ±1kV; Ethernet port: common mode ±4kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 3 (power supply: ±2kV; Ethernet port: ±1kV)

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Copper Port	DI	DO	Input Voltage
CJ-8DI8DO-MN	2	8	8	DC 9~36V

Contact Us

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