

CJ-16DI16DO-MP

16×DI + 16×DO + 2×100M RJ45 Ports PNP Modbus TCP Remote I/O



- 16 × DI channels, wet contact input (PNP). Support input filtering and input hold, ensuring signal stability and measurement accuracy
- 16 × DO channels, wet contact output (PNP)
- 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. DI supports 02, 03, and 04. DO supports 01, 03, 05, 06, 15, and 16
- 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℃~75℃ operating temperature range

Product Description

CJ-16DI16DO-MP is a PNP-type remote DIDO I/O controller supporting the Modbus TCP protocol, designed for reliable I/O data acquisition and control over Ethernet networks. The device is equipped with 2×10/100 Mbps Ethernet ports, 16×digital input channels, and 16×digital output channels, and supports a wide DC 9~36 V power input range.

The product supports a built-in web-based management interface and a variety of network and system functions, including Modbus TCP communication, hardware watchdog, DI input filtering, DO control, power-on state retention, real-time I/O status monitoring, network logging, DHCP client, user password management, system information display, online reboot, and firmware upgrade.

Built with industrial-grade components and manufactured under strict design and quality control standards, CJ-16DI16DO-MP features a 35 mm DIN-rail mounting design and a high-strength aluminum alloy enclosure. The fanless thermal design ensures long-term stable operation across a wide operating temperature range of -40℃ to +75℃. With enhanced industrial protection and stable communication performance, the device is well suited for harsh environments.

The product has passed comprehensive functional, high- and low-temperature, safety, and EMC tests, meeting the requirements of complex networks and demanding industrial applications. It is widely applicable in integrated energy systems, smart cities, intelligent transportation, smart factories, and industrial automation scenarios.

Technical Specifications

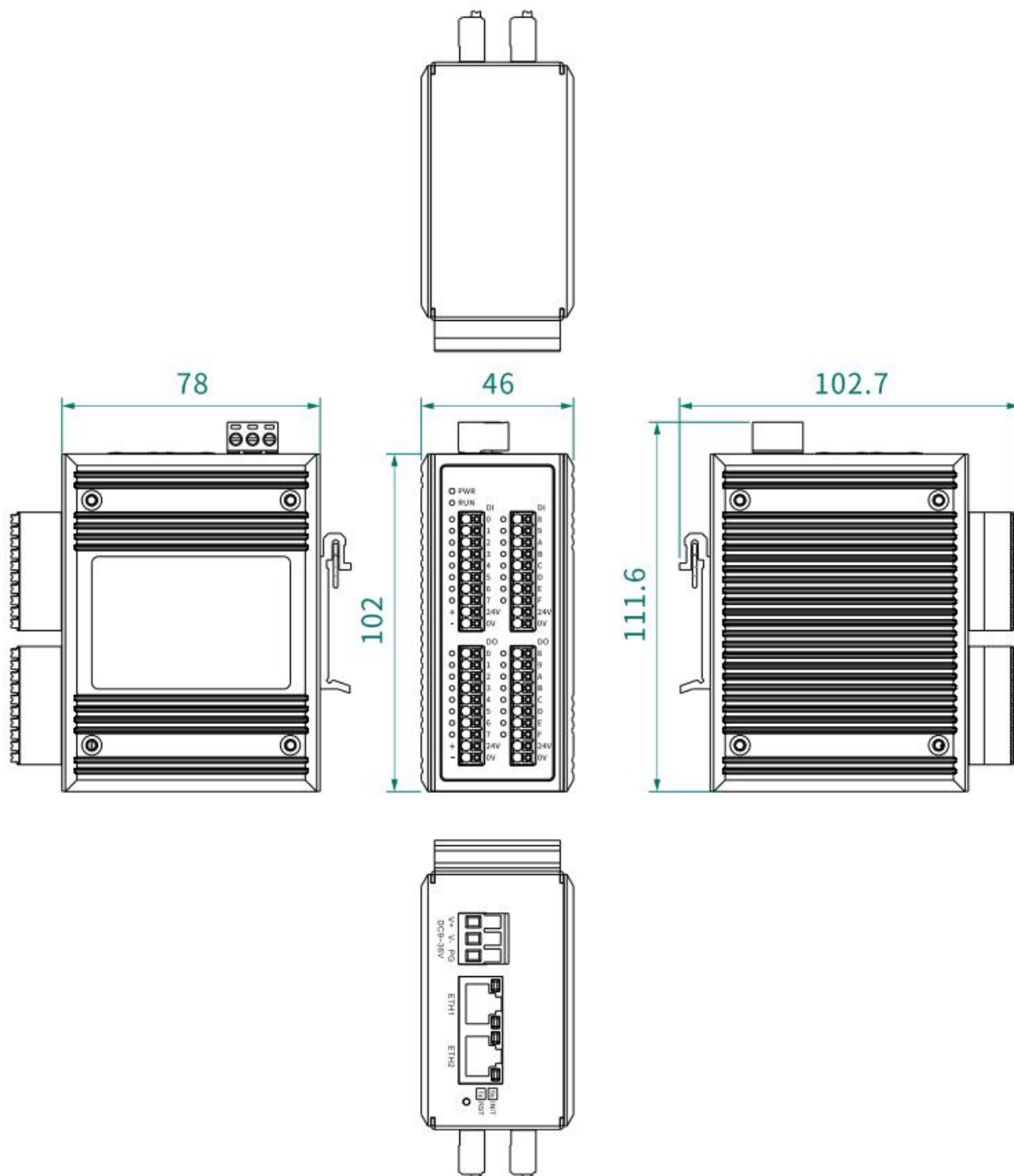
Software	
Management	Support Modbus TCP protocol, up to 8 Modbus TCP master stations connected simultaneously Support Modbus watchdog time, TCP timer keep alive Support DI input filtering, input hold Support DO state control, restart hold Support DI and DO state monitoring
System Management	Support static IP, DHCP client Support user password, system information Support network log remote host monitoring Support online restart, factory reset, and 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: 16 × DI digital inputs Connection: 2×10-position 3.5 mm-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 18~30V external power input) Input filtering: 0~20ms Isolation protection: 500VAC (Opto-isolation)

DO	Number of channels: 16 × DO digital outputs Connection: 2×10-position 3.5 mm-pitch terminal blocks 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	<2W @DC24V (Full load)
Connection	3-pin terminal block with 5.08mm pitch
Protection	Reverse polarity protection
Physical Characteristics	
Dimensions	102×46×78 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 0.37 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 ±2kV, differential mode ±1kV) 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-16DI16DO-MP	2	16	16	DC 9~36V



Contact Us

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