CJ-8DI8DO-RS

8×DI + 8×DO + 1×RS232/485 Modbus RTU DIN Rail Remote I/O



- 8×DI with wet-contact PNP type, 8×DO with relay dry contacts, built-in 500 V isolation protection
- Support DI input filtering to improve signal stability and accuracy
- Support DI counting functions, including rising edge, falling edge, or dual-edge counting
- Support DO power-on initial state configuration and DO output delay hold
- Support DO pulse close and pulse open functions to control single or multiple DO channels for short-time on or off operations
- Support DO strobe function to control a single DO channel to switch on and off at a specified frequency
- Support Modbus RTU protocol, allowing a Modbus RTU master to remotely acquire DI channel status and control DO channel status
- Support multiple Modbus function codes: DI 0x02, DO 0x01/0x05/0x0F/0x10
- 1×RS232/485, 600~460800bps baud rate
- DC9~36V power input, reverse polarity connection
- -40℃~+85℃ operating temperature range

Product Description

CJ-8DI8DO-RS is an industrial IoT I/O controller that supports Modbus RTU protocol for remote monitoring and control of I/O status. The device provides 1×RS232/485 serial port, 8×digital input (DI) channels, and 8×relay output (DO) channels, with a DC 9~36V power input.

The RS232/485 port operates as a Modbus RTU slave, allowing connection to a Modbus RTU master. Users can configure slave address and serial parameters, read or control DI and DO status, control DO flash/short pulse/frequency output, retrieve device information, and perform remote

actions such as reboot, factory reset, and firmware upgrade. The controller can monitor DI status and counts, control DO output and delay retention, and supports remote I/O configuration software for easy setup, management, and maintenance.

CJ-8DI8DO-RS uses industrial-grade components with high-standard system design and production control. The device supports 35mm DIN-rail or wall-mount installation, wide operating temperature from -40℃ to +85℃, and ensures stable performance in harsh industrial environments. The controller meets stringent functional, high/low temperature, safety, and EMC tests, making it suitable for industrial automation, building management, environmental monitoring, energy management, safety systems, and IoT applications.

Technical Specifications

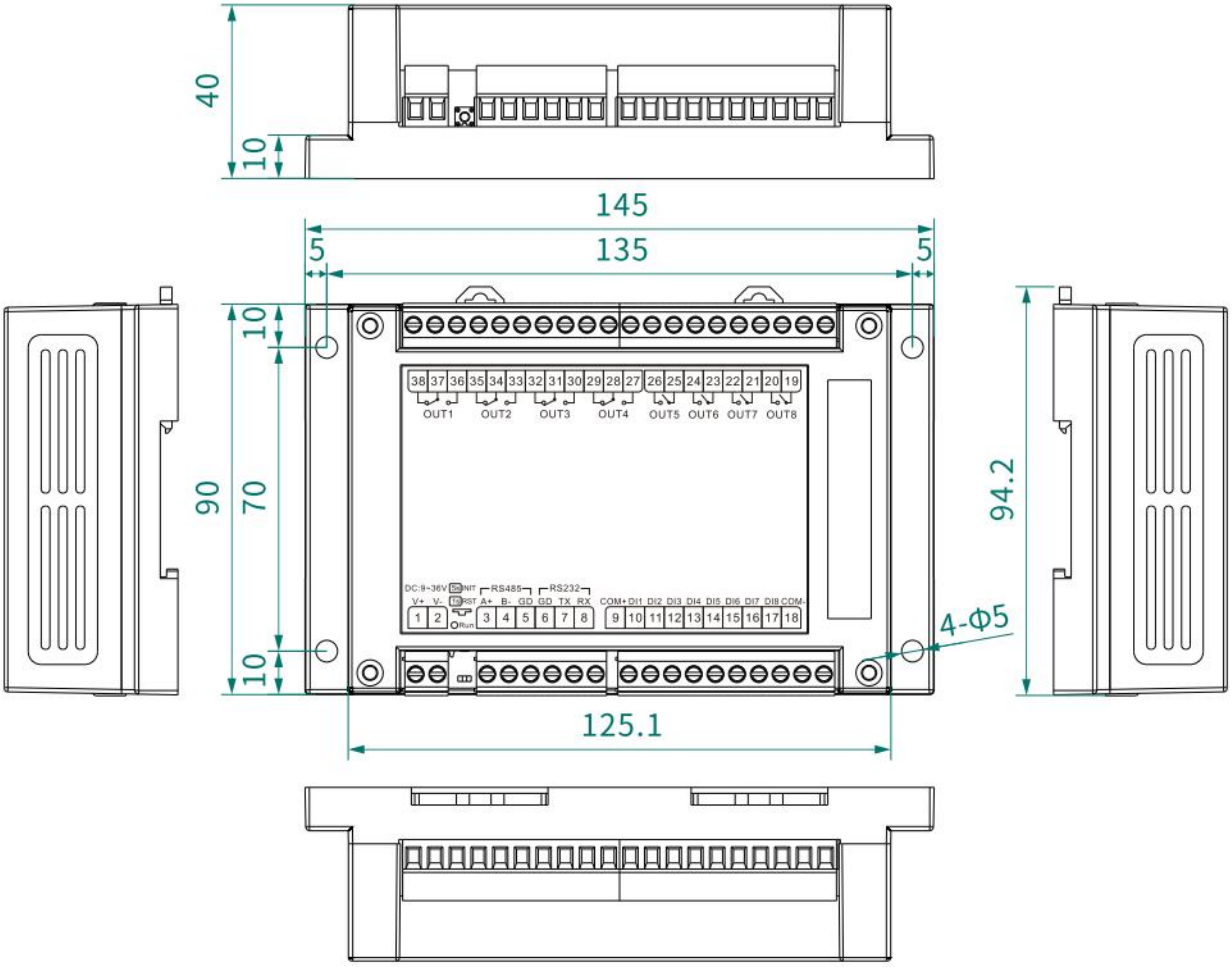
Software	
Software	Support Modbus RTU protocol with configurable slave address (1–247) Support Modbus function codes 01, 02, 03, 04, 05, 06, 15, 16 Support DI status reading, DI input filtering, and DI counting Support DO status reading and control, DO power-on initial state setting, and DO output delay retention Support DO flash, short pulse, and frequency output Support serial port parameter reading and configuration Support device information reading Support online reboot, factory reset, and firmware upgrade Support remote I/O configuration software management
Interface	
Serial	Type: 1×RS232/485 optional Connection: 6-position 5 mm pitch terminal block Baud rate: 600~460800bps Data bit: 8bit Stop bit: 1bit, 2bit Parity bit: None, Odd, Even Isolation voltage: 500VDC

DI	Number of channels: 8×DI digital inputs Connection: 10-position 5 mm pitch terminal block Modbus function code: 02 Rated voltage: DC12V (DC5~24V) Input type: wet contact PNP (Logic level 0: no external power input; Logic level 1: DC5~24V external power input) Isolation protection: 500VAC (optocoupler isolation)
DO	Number of channels: 8×DO digital outputs (DO1-DO4 are 3-contact relays, DO5-DO8 are 2-contact relays) Connection: 20-position 5mm pitch terminal block Modbus function code: 01, 05, 15, 16 Output type: relay output (dry contact) Contact rated load: 10A@AC250V, 10A@DC30V Initial insulation resistance: 1000MΩ (min.) @500VDC Contact resistance: ≤100mΩ Electrical life: 100,000 operations (rated load) Isolation protection: 500VAC
Button	One-click restart or factory reset
Indicators	Operation indicator, DO indicator
Power Supply	
Power Input	DC 9~36V
Power Consumption	<3.5W@DC24V (Full load)
Connection	2-position 5mm spacing terminal
Protection	Reverse polarity connection
Physical Characteristics	

Dimensions	145×90×40 mm (excluding DIN rail clip and connectors)
Installation Method	35mm standard rail installation
Housing	Plastic enclosure
Weight	About 0.25kg
Working Environment	
Operating Temperature	-40℃~+85℃
Storage Temperature	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-5 (Surge): Level 3

Dimensions

Unit: mm



Ordering Information

Standard Model	RS232/485	DI	DO	Input Voltage
CJ-8DI8DO-RS	1	8	8	DC9~36V

Contact Us

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