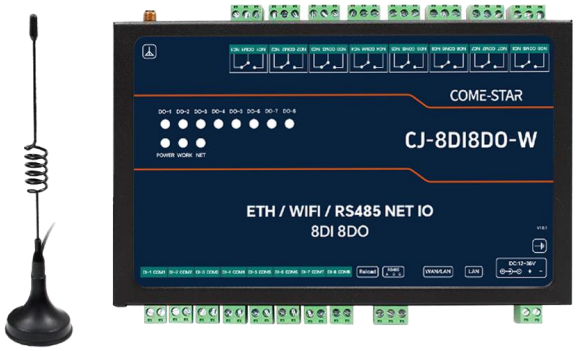
CJ-8DI8DO-W

8×DI + 8×DO + 2×100M Ethernet Ports+ 1×RS485 WiFi Remote I/O



- Support 8-way input, default is dry contact, and support 8-way Relay output
- Support 1×RS485 and 1×100M WAN/LAN combo port, 1×100M LAN ports
- Support 2.4GHz WiFi, AP and STA two WiFi modes
- Adopt Modbus RTU protocol data processing. Support Modbus TCP/RTU protocol adaptation
- Support selectable master and slave working modes, default slave
- Hardware watchdog ensures 24/7 stable operation without downtime
- DC12~36V wide input voltage, high-performance EMC protection
- -20℃ ~ +70℃ working temperature range

Product Description

CJ-8DI8DO-W is an industrial network I/O controller featuring eight dry-contact digital inputs and eight relay outputs, designed with remote control as its core function. It offers a 1×RS485 serial interface, 2 × 100 Mbps RJ45 ports, and integrated WiFi, enabling seamless integration into a wide range of industrial automation systems. Whether used for local control, LAN communication, or cloud-based remote management, CJ-8DI8DO-W ensures reliable real-time operation with simple and efficient configuration.

This industrial remote I/O controller supports both Modbus RTU and Modbus TCP, as well as selectable RTU slave and master modes. In addition, CJ-8DI8DO-W incorporates a TCP Client function that allows it to connect to remote servers for real-time data exchange actively. Configuration is further simplified through a built-in web server.

From a hardware perspective, the device integrates a hardware watchdog, comprehensive power protection, and multi-status LED indicators for clear operational visibility. It supports remote maintenance through FTP upgrades and RS485 upgrades.

With robust EMC protection, a wide 12-36V DC power input range, and an industrial-grade operating temperature, CJ-8DI8DO-W is well-suited for applications in harsh environments, including monitoring systems, self-service terminals, smart hotel automation, intelligent lighting, environmental control, access control, and distributed I/O expansion.

Product Features

- Support 8×relay output, contact rating: AC 277V 10A, DC 30V 10A
- Support 8×channel input with default dry-contact type
- Support user-defined conditional control to trigger I/O changes based on custom rules
- Allow configuring I/O hold behavior after power-on or reboot, either keeping the previous output state or resetting to OFF
- Provide 1×RS485 port, surge protection up to 1 kV
- Support 2×100 Mbps copper ports, support WAN/LAN and LAN networking
- Support AP and STA Wi-Fi modes, 2.4GHz WiFi band
- Adopt Modbus RTU protocol data processing. Support Modbus TCP/RTU protocol adaptation
- Support Modbus function codes 01, 02, 03, 04, 05, 06, 0F, 10
- Automatically identify Modbus RTU or Modbus TCP from the network side and reply in the same format
- Support Modbus RTU data processing and Modbus TCP/RTU protocol adaptation
- Provide two working modes: Master and Slave, and slave mode by default, allowing the device to respond only to commands addressed to it. Allow simultaneous control from network and RS485 host in slave mode. Cascade multiple Modbus RTU devices via RS485 for remote monitoring and control in Master mode
- Enable remote control via cloud platform (PC or mobile app) and local switch operation
- Support socket connection to remote server and TCP Client mode
- Provide a built-in Web Server for local configuration
- Support FTP remote firmware upgrade
- Support firmware upgrade via RS485
- Integrate hardware watchdog for stable long-term operation
- Provide industrial-grade protection: terminal wiring, surge protection, EFT against pulse interference, ESD up to ±15 kV air / ±8 kV contact
- Provide multiple LED indicators for device operating status
- DC12~36V input voltage range, power over-current, over-voltage, and reverse-connection protection
- Work in -20℃ ~ +70℃

Technical Specifications

Software	
Network protocol	Modbus TCP, Modbus RTU
Work mode	Master mode, slave mode
Configuration command	Modbus RTU
Application software	Support configuration software
DNS	Support
Data transmission mode	Support TCP Client
Interface	
Antenna	2.4GHz WiFi magnetic antenna
DI	Dry contact input, just needing to short-circuit DI and COM
DO	AC 220V 10A DC 28V 10A
Ethernet	1×10/100M WAN/LAN interface 1×10/100M LAN interface
Serial	1×RS485 Connection: 3-pin terminal blocks Baud rate: 300~230400bps
Button	One-click restart or factory reset
Indicators	POWER: Indicate power status WORK: Indicate system running status NET: Indicate network connection status WAN/LAN: Indicate WAN/LAN interface status LAN: Indicate LAN interface status

WiFi	
Standard	802.11b/g/n
Band	2.4 GHz
Coverage	100 meters in open area
Power Supply	
Power input	DC 12~36V
Connection method	Terminal block or DC jack
Protection	Over-current, over-voltage, anti-reverse connection protection
Mechanical	
Dimensions	200×122×29 mm
Installation method	Wall mount
Housing Material	Metal
Working Environment	
Operating Temp	-20℃ ~ +70℃
Storage Temp	-40℃ to +85℃
Relative humidity	5%~95% (non-condensing)
Industry Standard	
EMC	ESD IEC61000-4-2, Level 4 Surge IEC61000-4-5, Level 3 Group pulse IEC61000-4-4, Level 3

Dimensions

Unit: mm



Ordering Information

Standard Model	DI	DO	100M RJ45 Port	RS485	WiFi	Input Voltage
CJ-8DI8DO-W	8	8	2	1	2.4GHz	DC 12~36V

Contact Us

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