

Cport3108-232

8-Port RS232 Wall-Mount Serial to Ethernet Converter



- Support data conversion from 8×RS232 ports to 1×100 Mbps Ethernet port
- Support serial terminal device networking, converting between UDP, TCP, Modbus, HTTPD, WebSocket, MQTT, and other protocols, and supports virtual serial ports
- Support serial port data forwarding to realize transparent data transmission between serial ports
- Support MQTT protocol, realize connectivity between cloud and clients via cloud platforms
- Support DC 9~36V input with reverse polarity protection
- High-strength metal enclosure with IP40-rated housing protection
- -40 °C ~ +85 °C working temperature range

Product Description

Cport3108-232 is an 8-port RS232 wall-mount serial to Ethernet converter, built with a high-performance 32-bit Arm Cortex-M7 core running at up to 528MHz. It features an external hardware watchdog and it is designed with high-level ESD, surge, and EFT protection on the power supply, Ethernet port, and serial interfaces, ensuring strong anti-interference capability.

The device provides 8×RS232 serial ports and 1×10/100 Mbps Ethernet port. Each serial port can work independently at the same time in different working modes and baud rate range from 600bps to 460800bps. With a fully integrated TCP/IP protocol stack, RS232 devices can seamlessly connect to Ethernet.

This industrial-grade serial server supports web-based configuration and a variety of network management functions, including serial/network working modes, serial forwarding, log management, serial port reboot, and system settings. It also supports multiple protocol conversion modes such as UDP, UDP Multicast, TCP Client/Server, Modbus RTU Master/Slave, Modbus ASCII Master/Slave, RealCOM_MCP/CCP/MW, Pair Connection Master/Slave, HTTPD Client, WebSocket Client, and MQTT, enabling serial-to-Ethernet or Modbus TCP protocol conversion.

Built with industrial-grade components, Cport3108-232 is designed for wide temperature and wide voltage operation, with strong resistance to lightning and electromagnetic interference. It offers high reliability and performance, making it suitable for harsh industrial environments. Typical applications include industrial automation, traffic management, meteorology, water treatment, environmental monitoring, mining, petroleum, chemical, and new energy sectors.

Features and Benefits

- Built with a 32-bit ARM Cortex-M7 core, running at up to 528MHz.
- Serial ports support baud rates ranging from 600bps to 460800bps
- Support UDP / UDP Multicast mode for point-to-point, point-to-multipoint, or multipoint-to-multipoint communication via UDP protocol, offering fast and efficient data transmission
- Support TCP Client/Server mode for session-based communication via TCP. TCP Client supports up to 8 simultaneous session connections. TCP Server supports up to 8 concurrent client connections. RFC2217 is supported for dynamic modification of serial port baud rate and other communication parameters
- Support Pair Connection Master/Slave mode, allowing devices to work in pairs with simple configuration
- Support Modbus RTU/ASCII Master/Slave mode for protocol conversion between Modbus TCP and Modbus RTU/ASCII
- Support Modbus slave read-ahead, single-port auto-learn up to 128 RTU or 64 ASCII commands
- Support RealCOM_MCP/CCP/MW mode for virtual COM port mapping, allowing seamless serial-to-network communication
- Support HTTPD Client mode, allowing GET and POST operations with an HTTPD server
- Support WebSocket Client mode for bidirectional communication with WebSocket servers
- Support multiple data packet segmentation mechanisms, converting serial data to Ethernet packets based on data length or time interval to meet various real-time transmission requirements
- Verify connection and detect status via registration packet and heartbeat packet
- Support Modbus virtual ID, mapping Modbus slave real ID to virtual ID for data communication, to avoid slave ID duplication
- Support serial communication parameters, operating modes, sending and receiving frame counts
- Support local log storage, network storage, and serial port log output

Specifications

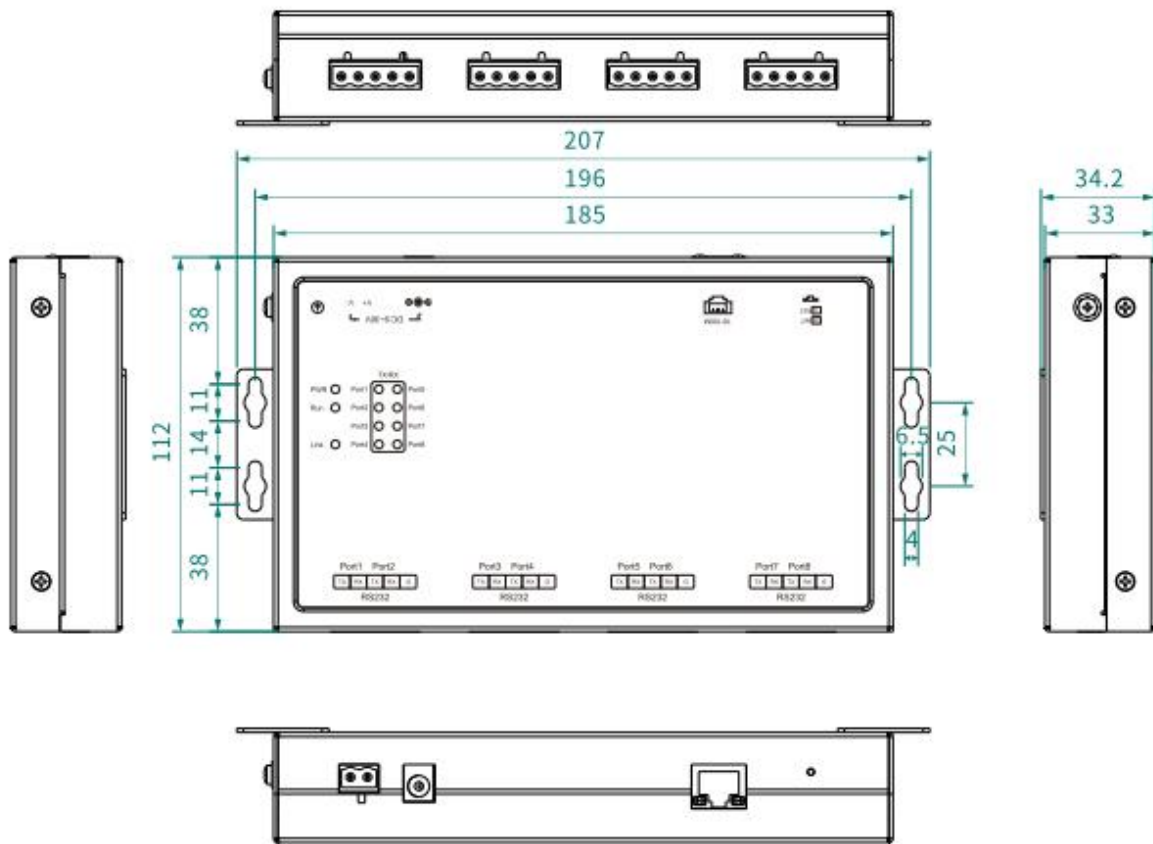
Software	
Network Protocol	IPv4, TCP/UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217, NTP
IP Obtaining Method	Static IP / DHCP
DNS	Support
User configuration	Web page configuration
Simple Transparent Transmission	UDP / UDP Multicast/ TCP Client/ TCP Server/ RealCOM/ Pair Connection/ MQTT
Modbus	Modbus RTU/ASCII to Modbus TCP
Serial Port Packaging Mechanism	The packet time and length thresholds can be configured. Default values vary according to the baud rate. The maximum packing length is 1460 bytes
TCP Server Connection	Each serial port can connect up to 8 TCP Client
TCP Client Connection	Each serial port can connect up to 8 TCP Server
Network Buffer	Send: 16Kbyte; Receive: 16Kbyte
Serial Buffer	Send: 1.5Kbyte; Receive: 1.5Kbyte
Heartbeat Package	Support TCP Keepalive mechanism, customize heartbeat packet content
Registration Package	Customize the content heartbeat packet content
RFC2217	Support

HTTPD Client	Support
WebSocket Client	Support
RealCOM	Support Moxa and Kanghai working mode
MQTT	Support standard MQTT cloud platforms, including Alibaba Cloud Platform, OneNet, Huawei Cloud
Serial to Serial Data Forwarding	Support (Prohibit, bidirectional forwarding, unidirectional forwarding, unidirectional receiving)
Average Transmission Delay	<10ms
Supporting Software	Network management configuration tool, Vitualcom software, MixView, MaxView
Interface	
100M Copper Port	1×10/100Base-T(X) auto-sensing RJ45 copper port, full/half duplex, auto MDI/MDI-X
Serial Port	Port type: 8×RS232 Connector: 5-bit, 5.08mm pitch terminal blocks Baud rate: 600bps-460800bps Data bit: 7bit, 8bit Stop bit: 1bit, 2bit Parity bit: None, Odd, Even
Button	One-click restart, factory reset
Status LEDs	Power supply indicator, running indicator, Ethernet port indicator, serial port indicator
Power Supply	
Input Voltage	DC 9~36V

Power Consumption (Full Load)	< 1.1W@DC12V
Connection	2-position 5.08mm pitch terminal block or DC barrel jack
Physical Characteristics	
Dimensions	207×112×34.2 mm (mounting brackets included, connector excluded)
Installations	Wall mount
IP Code	IP40
Working Environment	
Operating Temp	-40℃~+85℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	<p>IEC 61000-4-2 (ESD): Level 2 (Contact discharge ±4kV, Air discharge ±15kV)</p> <p>IEC 61000-4-5 (Surge): Level 4 (Power supply: Common mode ±4kV, Differential mode ±2kV; Ethernet port: Common mode ±6kV, Differential mode ±2kV)</p> <p>IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV; Ethernet port: ±2kV)</p>

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Copper Port	RS232	Input Voltage
Cport3108-232	1	8	DC 9~36V



Contact Us

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