Mport3208-I-AD220

8-Port Isolated Rack Mount RS485/422 Serial Server



- 8×RS485/422 isolated ports to 2×10/100M Ethernet ports, meeting various industrial bus or network field needs
- Support UDP, TCP, Modbus, HTTPD, WebSocket, MQTT and virtual serial port
- Support serial port forwarding, realizing transparent data transmission between serial port and other serial ports
- Support protocol conversion between Modbus-RTU/ASCII and Modbus-TCP, support Modbus RTU/ASCII over TCP transparent transmission
- Support MQTT protocol, realizing connectivity between cloud and clients via multiple cloud platforms
- Support AC85~264V/DC110~370V power input
- High-strength metal shell, IP40 protection level, fanless chassis for heat dissipation, operating temperature -40°C to +85°C

Product Description

Mport3208-I-AD220 is 8-port isolated rack mount RS485/422 serial server. It uses a 32-bit dual-core Arm Cortex-M7 core with a main frequency of up to 528MHz and an external hardware watchdog design. The power supply, network port, and serial port all have high-level ESD, Surge, and EFT protection and strong anti-interference capabilities. It is designed to provide data transmission between multiple serial ports and Ethernet for industrial users. This product supports 8*RS485/422 serial ports. Each serial port can work independently at the same time without affecting each other. It can be configured to different working modes and baud rates (600bps~460800bps); it supports 2*100M copper ports, and can be configured into any working mode. The serial server integrates TCP/IP protocol stack, so that RS485/422 serial devices can be easily, flexibly and quickly connected to Ethernet, making industrial communication more smooth, more reliable, faster, and meet the needs of customers to improve value-added applications.

The Ethernet serial server supports WEB configuration of various network management functions, such as serial port/network working mode, serial port forwarding, network card mode, DNS, log management, system management, serial port restart, system management and etc. supports 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, MQTT and other conversion modes to realize serial port to Ethernet or Modbus TCP protocol. It is designed with industrial-grade components, featuring wide temperature and wide pressure range, lightning resistance, anti-electromagnetic interference, high reliability, high performance, suitable for operation in harsh field environment like industrial monitoring, traffic management, meteorology, water treatment, environmental monitoring, coal mine, oil, chemical, new energy industries, to help user conduct field data collection, remote monitoring, field control and etc.. It is an essential industrial communication products for the development of industrial Internet of Things.

Features and Benefits

- Adopt 32-bit ARM Cortex-M7 kernel, up to 528 MHz
- Dual Ethernet ports can be configured as two independent network segments or cascading ports
- Support 600bps~460800bps baud rate range
- Support UDP/UDP Multicast mode, achieving point-to-point, point-to-multipoint or multipoint-to-multipoint communication through the UDP protocol
- Support TCP Client/Server mode, establishing session connection through TCP protocol, TCP Client/Server supports up to 8 session connections, and support dynamically modify serial port rate and other communication parameters through RFC2217 instructions
- Support Pair Connection Master/Slave mode, devices can be used in pairs, easy to operate
- Support Modbus RTU/ASCII Master/Slave mode, realizing Modbus TCP and Modbus RTU/ASCII protocol conversion
- Support Modbus Slave host pre-read, single port automatic learning up to 128 RTU or 64 ASCII instructions, to achieve quick response
- Support RealCOM MCP /CCP/MW mode, mapping network for local COM, seamless connection
- Support HTTPD Client mode and perform GET or POST operation with HTTPD server
- Support WebSocket Client mode for two-way communication with WebSocket server
- Support multiple sub-packaging mechanisms, converting serial port data into Ethernet data packets according to data length or time, to meet the real-time needs of different networks
- Support package registration and heartbeat packages to realize connection verification and connection status detection
- 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, USB flash drive storage and serial port log output

Specification

Software	
Network Protocol	IP, 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
Modbus	Modbus RTU/ASCII to Modbus TCP
Serial Port Packaging Mechanism	Time and length can be set, the max. packing length is 1460 bytes
TCP Server Connection	Each serial port can connect up to 8 TCP Client
Network Buffer	Send:16Kbyte; Receive: 16Kbyte
Serial Buffer	Send:1.5Kbyte; Receive:1.5Kbyte
Heartbeat Package	Support TCP Keep alive mechanism, customize heartbeat packet content
Registration Package	Customize the content heartbeat package content
RFC2217	Support
HTTPD Client	Support
WebSocket Client	Support
RealCOM	Support Maisvch/Moxa working mode
MQTT	Support Alibaba MQTT Cloud Platform as well as other standard MQTT cloud platforms
Serial to Serial Data Forwarding	Support (prohibit, bidirectional forwarding, unidirectional forwarding, unidirectional receiving)
Transmission Delay	<10ms
Supported Software	NMS configuration tool, Vitualcom software, MixView, MaxView
Interface	

Specification

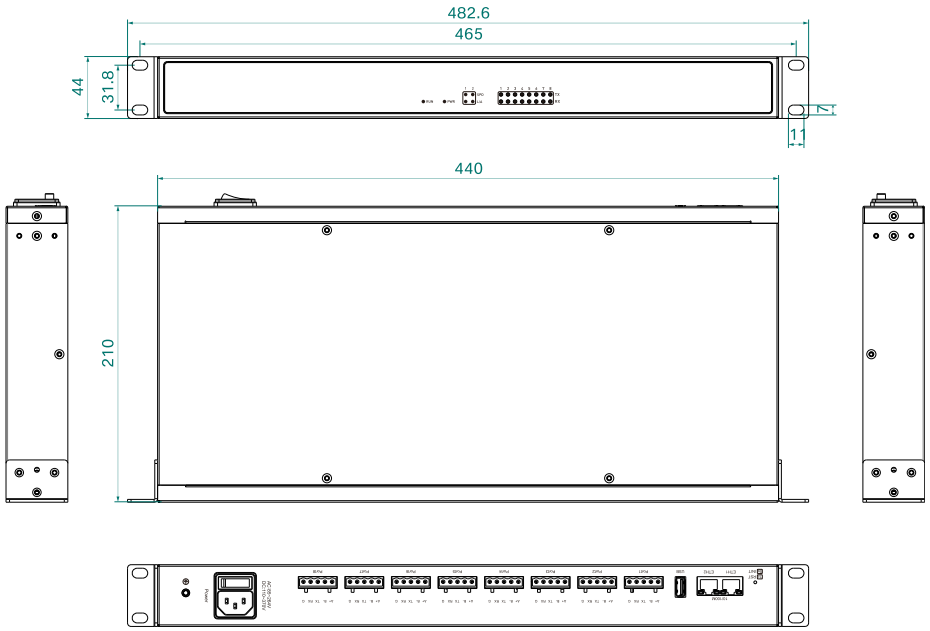
100M Copper Port	2*10/100 Base-T(X) auto-sensing RJ45 ports, full/half duplex, auto MDI/ MDI-X connection
Serial Port	Port type: 8×RS485/422 Connector: 5-position 5.08mm pitch terminal block Baud rate:600bps~460800bps Data bit:7bit, 8bit Stop bit :1bit, 2bit Parity bit: None, Odd, Even, Mark, Space Isolation voltage: 2kVAC/3kVDC
USB	1 Type-A USB 2.0 interface
Button	One-click restart, factory reset
Status LED	Power supply indicator, running indicator, Ethernet port indicator, serial port indicator
Power Supply	
Input Voltage	AC85~264V/DC110~370V
Power Consumption	<5W@AC220V
Connection	AC socket with switch
Physical Characteristic	
Dimensions	482.6×44×210 mm (including mounting clips)
Installations	19 inn 1U rack mount installation
IP Code	IP40
Working Environment	
Operating Temp	-40℃~+85℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industrial Standard	

Specification

EMC	IEC 61000-4-2 (ESD): Level 4 (contact discharge ±8kV, air discharge ±15kV) IEC 61000-4-5 (Surge): Level 3 (Power supply: common mode ±2kV, differential mode ±2kV; RS485/422: common mode ±4kV, differential mode ±2kV; network port: common mode ±6kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (power supply: ±4kV; network port, serial port: ±2kV)
Certification	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	10/100M Copper Port	RS232/485 Port	Input Voltage
Mport3208-I-AD220	2	8	Single AC85~264V/DC110~370V power supply

Contact Us

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