Mport3232 Serial Server

32-Port Rack Mount Serial Server, RS232/485/422 to RJ45 Ethernet Module, 2 Ethernet Ports

- Support data conversion from 32*RS232/485/422 ports to 2*gigabit Ethernet Combo ports
- Support protocols like UDP, TCP, Modbus, HTTPD, WebSocket, MQTT etc,. and virtual com port
- Support serial port data forwarding to realize transparent data transmission between serial ports
- Support protocol conversion between Modbus-RTU/ASCII and Modbus-TCP, support Modbus RTU/ASCII Over TCP transparent transmission
- Support MQTT protocol, realize connectivity between cloud and clients via multiple cloud platforms
- Support batch configuration and upgrade via MixView
- Support AC85~264V/DC110~370V input, dual redundant power supply
- High strength aluminum alloy shell, IP40 protection grade
- Fanless design, case heat dissipation, -40℃ ～ + 75℃ working temperature

CE   FC   RoHS   ⚙   IP40

⬙ Product Description

The Mport3232 industrial serial server can enable serial devices to communicate over an IP-based network. It transforms serial to Ethernet compatible signals that allow them to be used remotely by network-attached applications and machines. Maiwe Mport3232 serial server is designed with 32*RS-232/485/422 serial ports and 2*gigabit Ethernet copper ports. The power supply, Ethernet port and serial port are all designed with high level ESD, Surge, EFT protection, strong anti-interference ability, ideal for data transmission between multiple serial port to Ethernet port in industrial environments. The 32*RS232/485/422 ports can work independently at the same time in different working mode and baud rate range from 600bps to 460800bps. The two gigabit Ethernet combo ports can work as either gigabit copper port or gigabit fiber port. The 32port serial server integrates TCP/IP protocol stack, so that RS232/485/422 serial devices to 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 32-port serial server adopts rack mounting to meet the requirements of different application scenes. 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, etc,. It is an essential industrial communication product for the development of industrial Internet of Things.

✪ Features and Benefits

- Adopt 32-bit ARM Cortex-A7 1GHz dual-core processor
- 600bps-460800bps baud rate range
- Support UDP Client/Server/ Multicast
- Support TCP Client/Server, RFC 2217 mode
- Support Pair Connection Master/Slave
- Support Modbus RTU/ASCII Master/Slave
- Support Modbus slave read-ahead, single-port auto-learn up to 256 RTU or 128 ASCII commands
- Support RealCOM_MCP/CCP/MW
- Support HTTPD Client mode
- Support WebSocket protocol
- Support serial port data frames filtered based on the start and end bytes of the frame
- 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 DES/ 3DES/ AES/ RC2/ RC4/ RC5/ BlowFish data encryption algorithm
- Support SSL (TLS1.0/1.1/1.2) encryption, one-way/two-way authentication
- Support WEB/ SSH access control, and IP/ MAC address filter
- Support device reboot, login event, configuration change, password change and other event alarms, support for e-mail and SNMP alarm mode
- 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
- Support serial port/device reboot, factory reset, device upgrade, etc.
- Support batch configuration and batch upgrade

Specification

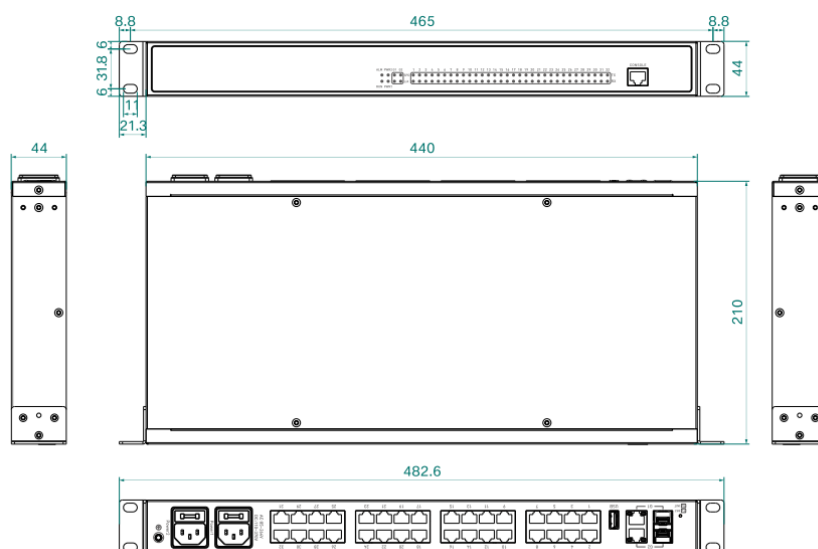| Software	
Network Protocol	IP, TCP, UDP, DNS, ARP, SNMP, SSH, ICMP, HTTP, DHCP Client, RFC2217, NTP, SMTP
IP Obtaining Method	Static IP / DHCP
DNS	Support
User configuration	Web page configuration/ CONSOLE port simple network parameter configuration/ MixView batch configuration
Simple Transparent Transmission method	UDP Client/ UDP Server/ 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 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: 2Kbyte; Receive: 2Kbyte
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 Maiwe,Moxa and Kanghai working mode
MQTT	Support Alibaba MQTT Cloud Platform as well as other standard MQTT cloud platforms
Data Encryption	Support (DES/3DES/AES/RC2/RC4/RC5/BlowFish)
SSL Encryption	Support (TLS1.0/TLS1.1/TLS1.2)

Specification

Serial to Serial Data Forwarding	Support (Prohibit, bidirectional forwarding, unidirectional forwarding, unidirectional receiving)
Transmission Delay	<10ms (average)
Supporting Software	Network management configuration tool, Vitualcom software, MixView, MaxView
Batch Upgrade	Support (via MixView software)
Batch Configuration	Support (via MixView software)
Interface	
Gigabit Combo	2* 10/100/1000BaseT(X) auto-sensing RJ45 or 1000Base SFP combo ports, copper ports support full/half duplex, auto MDI/ MDI-X connection
Serial Port	Port type: 32×RS232/485/422 Connector: RJ45 Baud rate: 600bps-460800bps Data bit: 7bit, 8bit Stop bit: 1bit, 2bit parity bit: None, Odd, Even
USB	1*Type-A USB 2.0 interface
CONSOLE Port	1*CONSOLE port, RJ45 connector
Button	One-click restart, factory reset
Status LEDs	Power supply indicator, running indicator, alarm, Ethernet port indicator, serial port indicator
Power Supply	
Input Voltage	AC 85~264V / DC 110~370V, dual power supply redundancy
Power Consumption	16.2W@AC220V (full load)
Connection	AC power supply with switch
Physical Characteristic	
Dimensions	482.6×44×210 mm (mounting brackets included)
Installations	19 inn 1U rack mount installation
IP Code	IP40

Specification

Weight	2.9kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industrial Standard	
EMC	IEC 61000-4-2(ESD): Level 4 IEC 61000-4-5(Surge): Level 3 IEC 61000-4-4(EFT): Level 4
Certification	CE, FCC, RoHS

Dimensions

Unit: mm

🛒 Ordering Information

Standard Model	1G Combo Port	RS232/485/422 Port	Input Voltage
Mport3232-2AD220	2	32	Dual AC 85~264V / DC 110~370V

📞 Contact Us

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