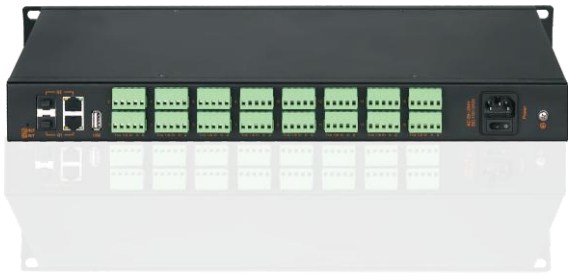


Mport3216-AD220

Dual network port 16-channel RS232/485 rack-mounted Ethernet serial server



- ◆ Adopt 32-bit Arm Cortex-A8 core CPU, up to 800MHz main frequency; Two Gigabit Ethernet photoelectric multiplexing ports, the electrical port and optical port can be adapted according to the inserted medium, and the default optical port takes priority when both are plugged in at the same time;
- ◆ The 16 serial ports are independent of each other and do not affect each other, and can be configured into different modes and baud rates;
- ◆ External independent hardware watchdog design to prevent crashes;
- ◆ Ethernet interface up to 6KV lightning protection; RS-232/485 interface up to 4KV surge protection;
- ◆ Provide industrial grade 85~264VAC or 110~370VDC input, up to 2KV surge protection;
- ◆ Meet the industrial temperature range of -40°C~+70°C.



RoHS



IP40

Product Description

The dual-port 16-channel RS232/485 rack-mounted Ethernet serial server produced by MAIWE adopts 32-bit Arm Cortex-A8 core CPU, the main frequency is up to 800MHz, and the built-in hardware watchdog is designed. The power supply, network port, and serial port all have high-level ESD, Surge, and EFT protection, and have strong anti-interference ability. It is specially designed for industrial users to realize data transmission between multiple serial ports RS232/485 and Ethernet. This product supports 16 serial ports, each serial port can work independently at the same time without affecting each other, and supports flexible configuration choices of two 10/100/1000M Ethernet photoelectric multiplexing interfaces, which can be configured for different modes and baud rates (300~ 460800bps). It integrates the TCP/IP protocol stack inside, and the serial port of the device can be flexibly configured into RS232/485 mode through the WEB page, so that the RS232/485 device that could not access the Internet can also be connected to the Ethernet conveniently, flexibly and quickly, enabling industrial communication. Smoother, more reliable, faster.

MAIWE's dual-port rack-mount Ethernet serial server provides a wide range of DC or AC power input. In terms of structural installation, Mport3216 series products adopt industrial-grade rack-mounted installation; on the core components, the products adopt industrial-grade quality design solutions, with wide temperature and wide voltage, anti-lightning, anti-electromagnetic interference, high reliability, high performance, suitable for use. It has many advantages such as operating in harsh environments, and can be used in industrial monitoring, traffic management, meteorology, water treatment, environmental monitoring, coal mines, petroleum, chemical industry, new energy and other industries for remote on-site data collection, remote monitoring, on-site control, etc. , is an indispensable industrial communication product for the development of the Industrial Internet of Things.

Features

- ◆ Adopt 32-bit ArmCortex-A8 core CPU;
- ◆ Up to nearly 800MHz frequency;
- ◆ Hardware watchdog design to prevent crashes;
- ◆ The electrical fast transient bursts of the power supply and communication interface are both grade 4 A;
- ◆ Ethernet interface common mode $\pm 6KV$, differential mode $\pm 2KV$ (10/700us) lightning protection;
- ◆ RS-232/RS-485 interface up to $\pm 4KV$ (1.2/50us) surge protection;
- ◆ 85~264VAC or 110~370VDC;
- ◆ $\pm 2KV$ common mode, $\pm 2KV$ differential mode surge protection;
- ◆ The isolation voltage of the serial port to the control system is 2000VAC;
- ◆ Industrial temperature design, meet the industrial temperature range of $-40^{\circ}C \sim +70^{\circ}C$;
- ◆ Gigabit COMBO port, support independent network segment and cascade mode;
- ◆ Support Modbus RTU/ASCII to Modbus TCP;
- ◆ Support email alerts and mirror dual backup.

Technical Specifications

Network port specifications	
Network port type	10/100/1000Mbps optical multiplexing port, the optical port can be configured with 100/1000Mbps
Isolation protection	1.5KV isolation protection (electrical port)
Serial port specification	
Number of serial ports	16 RS-232/485
Baud rate	300~460800(bps)
Parameter	Data Bits: 5, 6, 7, 8; Stop Bits: 1, 2; Check Bits: None\Odd Parity\Even Parity\Mark\Space
Power parameters	
Operating Voltage	85~264VAC or 110~370VDC
Power	6.5W@ AC220V
Reliability	
ESD	$\pm 8kV$ (contact discharge); $\pm 15kV$ (air discharge)
Surge	Power supply: $\pm 2kV$ /common mode $\pm 2kV$ /differential mode; RS232/485: $\pm 4kV$ /common mode $\pm 4kV$ /differential mode; Ethernet port: $\pm 6kV$ /common mode $\pm 2kV$ /differential mode
EFT	Power supply: $\pm 4kV$ Communication port: $\pm 4kV$

Connect the world, smart the future

Software parameters

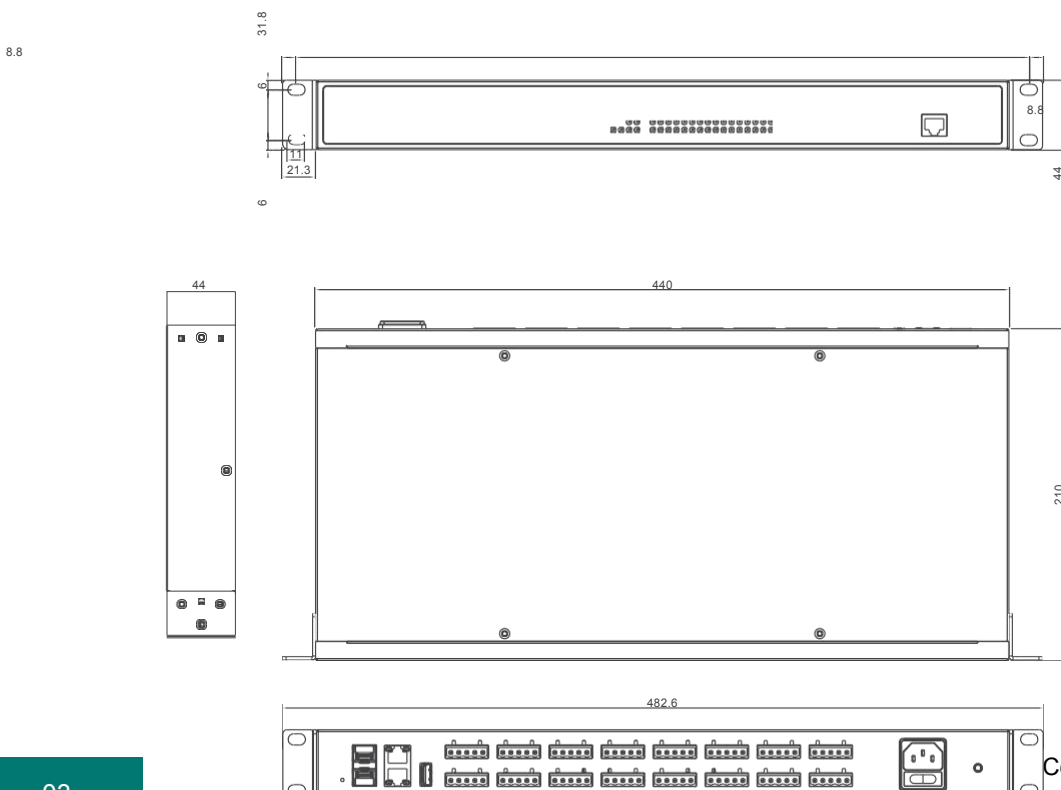
Network protocol	IPv4、IP、TCP/UDP、ARP、ICMP、DHCP、DNS、HTTP、RFC2217、NTP
Obtaining IP address	Static IP / DHCP
DNS	Support
User configuration	Web configuration/CONSOLE port simple network parameter configuration
Simple transparent transmission	IPv4、IP、TCP/UDP、ARP、ICMP、DHCP、DNS、HTTP、RFC2217、NTP、TELNET、SNMP、TFTP
Modbus	Modbus RTU/ASCII to Modbus TCP
Serial port packaging mechanism	The time and length can be set; the default value varies according to the bit rate; the maximum package length is 1460bytes
TCP Server connection	Supports up to 8 TCP connections
Serial port cache	Send: 2Kbyte; Receive: 2Kbyte
Web cache	Send: 16Kbyte; Receive: 16Kbyte
Heartbeat packet	Support TCP Keepalive mechanism, customize heartbeat packet content
Registration package	Custom Registration Package Contents
RFC2217	Support
Average transmission delay	<10ms
Supporting software	Virtual serial port software

Others

Size	440mm×210mm×44mm
Working environment	-40℃~+70℃ 5%~95% RH (non-condensing)
Storage temperature	-40℃~+85℃ 5%~95% RH (non-condensing)

Installation Size

465



Connect the world, smart the future

Ordering Information

Model No	Description
Mport3216-AD220	16-channel RS232/485 Ethernet rack-mounted serial server (85~264VAC or 110~370VDC)