Mport3108-RJ

8-port RS232/RS485/RS422 serial to 100M wall-mounting Ethernet server

Product description

Mport3108 series industrial Ethernet serial port server, using 32-bit ArmCortex-M7 core CPU, the main frequency up to 528MHz built-in hardware watchdog design. Power supply, network port, serial port have high level ESD,Surge,EFT protection, strong anti-interference ability, is designed for industrial users to achieve multi-channel serial port RS232/485/422 and Ethernet data transmission. This series of products support 8 RS232/485/422 serial port +1 10/100M Ethernet electrical interface configuration, it integrates the TCP/IP protocol stack, so that the original unable to access the Internet RS232/485/422 equipment can also be convenient. Flexible and fast connection to Ethernet makes industrial communications smoother, more reliable and faster to meet the needs of customers who are constantly innovating for value-added applications.

Features:

-1 100 Mbit Ethernet electrical port, 8 RS232 or RS485 serial port networking;

-Adopt 32-bit Arm Cortex-M7 core CPU, up to nearly 528MHz main frequency;

-External independent hardware watchdog design, prevent crash;

-Support serial terminal equipment networking, can convert UDP, TCP, Modbus, HTTPD, WebSocket, MQTT and other protocols, support virtual serial port

-Ethernet interface up to 6KV lightning protection, serial interface up to 4KV surge protection;

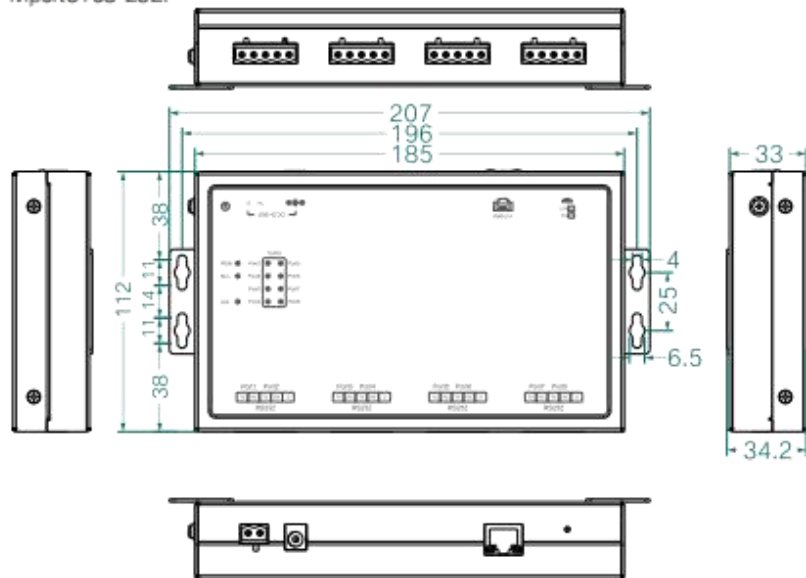-Provide industrial DC power supply DC9~36V input, with anti-reverse protection;

Product specifications

Standard model			
Product model	Mport3108-232	Mport3108-485	Mport3108-RJ

Technical parameters	
Operating power	DC9-36V

Operating current	＜1.1W@12VDC	＜2.6W@12VDC

Network port	
Network Port	10/100Mbps, RJ45 interface; adaptive MDI/MDIX cross-connect and auto-flip
Isolation protection	1.5KV isolation protection

Serial port			
Serial port number	8*RS232	8*RS485	8*RS485/232/422
Parameter	600~460800 (bps); 7/8 data bits; 1/2 stop bits; three validation modes: none, odd parity, and even parity;		

Reliability		
Isolation protection	1.5KV isolation protection	
ESD	±4kV(contact), ±15kV(air)	±8kV(contact), ±15kV(air)
EFT	Power: ±4kV, Communication port: ±2kV	
Surge	Power supply: ±4kV/common mode, ±2kV/differential mode	
	RS485/232: ±4kV/common mode, ±4kV/differential mode	
	Network port: ±6kV/common mode, ±2kV/differential mode	

Mechanical structure	
Dimension	207mm×112mm×34.2mm
Housing	IP40, Metal case

Working Environment	
Operating Temperature	-40°C~85°C
Storage temperature	-40°C~85°C
Ambient Humidity	5%~95%(no condensation)

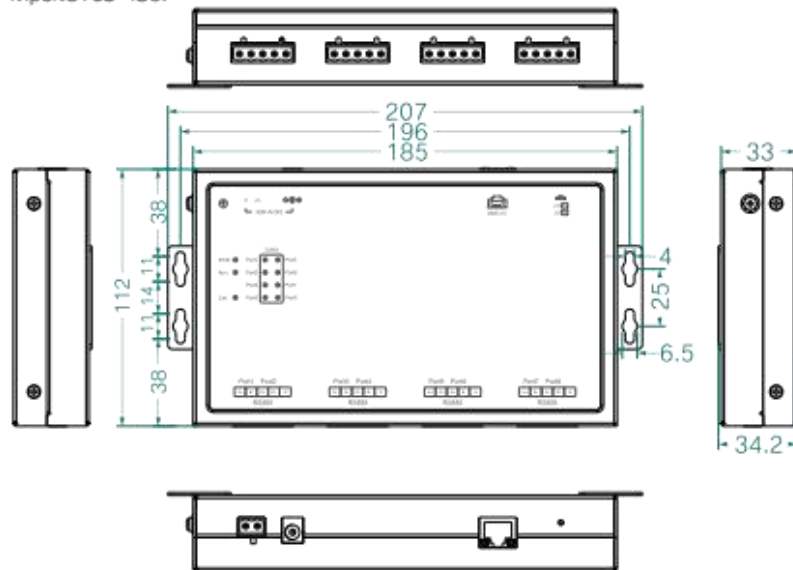| Software parameters	
Network protocol	IPv4, IP, TCP/UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217
IP obtaining method	Static IP/DHCP
DNS	Support

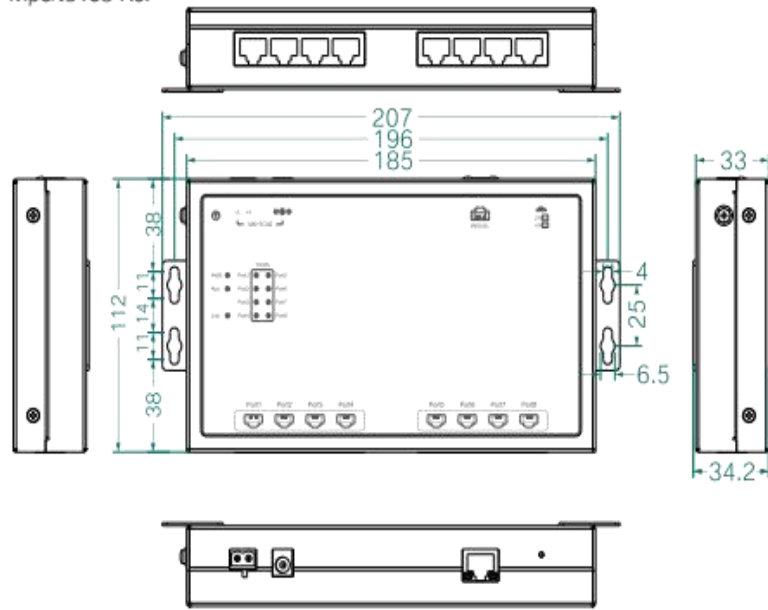| User configuration	Web configuration
Simple transparent transmission method	UDP/ UDP Multicast/ TCP Client/ TCP Server/ RealCOM/ Pair Connection/ MQTT
Modbus function	Support Modbus RTU/ASCII to Modbus TCP (Master&Slave Mode)
Serial port packaging mechanism	Time and length can be set; The default value changes according to the bit rate; The maximum packing length is 1460 bytes.
TCP Server connection	Support up to 8 TCP connections
Network cache	Send: 16Kbyte; Receive: 16Kbyte;
Serial Buffer	Send: 1.5Kbyte; Receive: 1.5Kbyte;
Average transmission delay	<10ms
RFC2217	Support
Httpd Client	Support
WebSocket Client	Support
RealCOM	Support the work mode of Maiwe, Moxa, Kanghai and so on

Dimensional drawing

- Mport3108-232:

- Mport3108-485:

- Mport3108-RJ:

Ordering information

Mport3108-RJ	8-port RS232/RS485/RS422 serial to 100M wall-mounting Ethernet server, RJ45 interface for RS232/485/422.DC9V~36V power supply