

Mport3108 Series

8-Port RS232/485/422 Wall Mount Ethernet Serial Server



- 1*100M Ethernet port, 8* RS232, RS485 or RS232 / 485 / 422 serial port optional
- Using 32-bit Arm Cortex-M7 core CPU with a main frequency of up to 528MHz
- External independent hardware watchdog design, to prevent the crash
- Support serial port 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 port up to 4kV surge protection
- Provide industrial grade DC power supply DC 9~36V input, with anti-back connection protection
- Meet the industrial grade temperature range of -40℃~85℃





Product Description

The Mport3108 series industrial Ethernet serial port server produced by Maiwe Communications uses a 32-bit Arm Cortex-M7 kernel CPU with a main frequency of up to 528 MHz and a built-in hardware watchdog design. The power supply, network port and serial port have high grade ESD, Surge, EFT protection and strong anti-interference ability. It is designed for industrial users to provide data transmission between multiple serial port RS232 / 485 / 422 and Ethernet. This series of products support 8*RS232, RS485 or RS232 / 485 / 422 serial port and 1*10 / 100M Ethernet copper port, it integrates TCP / IP protocol stack, so that the original inaccessible RS232 / 485 / 422 equipment can get fast connection to Ethernet, making industrial communication more smooth, more reliable, faster, to meet the needs of customers to improve value-added applications and continuous innovation.

The Ethernet serial port server of Maiwe Communications provides a wide range of DC power input. In terms of structure installation, Mport3108 series products adopt industrial grade wall-mounted installation; core device products adopt industrial grade quality design scheme, with wide temperature and wide pressure, lightning resistance, anti-electromagnetic interference, high reliability, high performance, suitable for operation in harsh environment and many other advantages, can be used for industrial monitoring, traffic management, meteorology, water treatment, environmental monitoring, coal mine, oil, chemical, new energy industries, for remote field data collection, remote monitoring, field control, etc., is an essential industrial communication products for the development of industrial Internet of Things.



Features and Benefits

- Using a 32-bit Arm Cortex-M7 kernel CPU, the main frequency is up to 528 MHz
- External independent hardware watchdog design, to prevent the crash
- Industrial-grade anti-interference protection
- Contact discharge $\pm 8\text{kV}$ and air discharge $\pm 15\text{kV}$

- The Ethernet interface is up to 6kV for lightning protection
- Serial port up to ± 4 kV surge protection
- Provide industrial grade DC DC9~36V input
- The power supply has anti-reverse connection protection and 4kV surge protection
- Meet the temperature range of $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ industrial grade

Specifications

Model			
Product Model	Mport3108-232	Mport3108-485	Mport3108-RJ
Interface			
Ethernet Port Type	10/100Mbps RJ45 Ports, auto MDI / MDIX connection		
Magnetic Isolation Protection	1.5kV Electromagnetic isolation		
Serial Port			
No.of Ports	8*RS232	8*RS485	8*RS232/485/422
Baud rate	600~460800 bps		
Parameter	Data bit: 7,8; stop bit: 1,2; check bit: none, odd check and even check		
Power Supply			
Power Voltage	DC 9~36V		
Consumption	<1.1W@12VDC		<2.6W@12VDC
Reliability			
ESD	± 4 kV (contact discharge); ± 15 kV (air discharge)		± 8 kV (Contact discharge); ± 15 kV (Air discharge)
Surge	Power supply: ± 4 kV / co-mode ± 2 kV / differential mode RS485 / RS422: ± 4 kV / co-mode ± 2 kV / differential mode Network port: ± 6 kV / co-mode ± 2 kV / differential mode		
EFT	Power supply: ± 4 kV; communication port: ± 2 kV		

☑☑☑ Specifications

Other	
Size	207×112×34.2 mm (with mounting brackets)
Working Temp	-40℃~+85℃ 5%~95%RH (No condensation)
Storage Temp	-40℃~+85℃ 5%~95%RH (No condensation)
Software	
Networking Protocol	IPv4, TCP/UDP, ARP, ICMP, DHCP, DNS, HTTP, RFC2217, NTP
IP Access	Static IP / DHCP
DNS Resolution	Support
User Configuration	Web configuration
Simple Transmission	UDP/ UDP Multicast/ TCP Client/ TCP Server/ RealCOM/ Pair Connection/ MQTT
Modbus	Modbus RTU /ASCII to Modbus TCP
Serial Port Data Packing	Time and length can be set; the default value varies from the bit rate; maximum pack length 1460 bytes
TCP Server Connection	Support 8*TCP
Serial Port Cache	Send: 1.5Kbyte; receive: 1.5Kbyte
Network Cache	send: 16Kbyte; receive: 16Kbyte
Heartbeat Package	Support TCP Keepalive mechanism, custom heartbeat package content
Registration Package	Customize the registration package content
RFC2217	Support
HTTPD Client	Support
Web Socket Client	Support
RealCOM	Support Maiwe, Moxa, etc
Transmission Delay	<10ms

Specifications

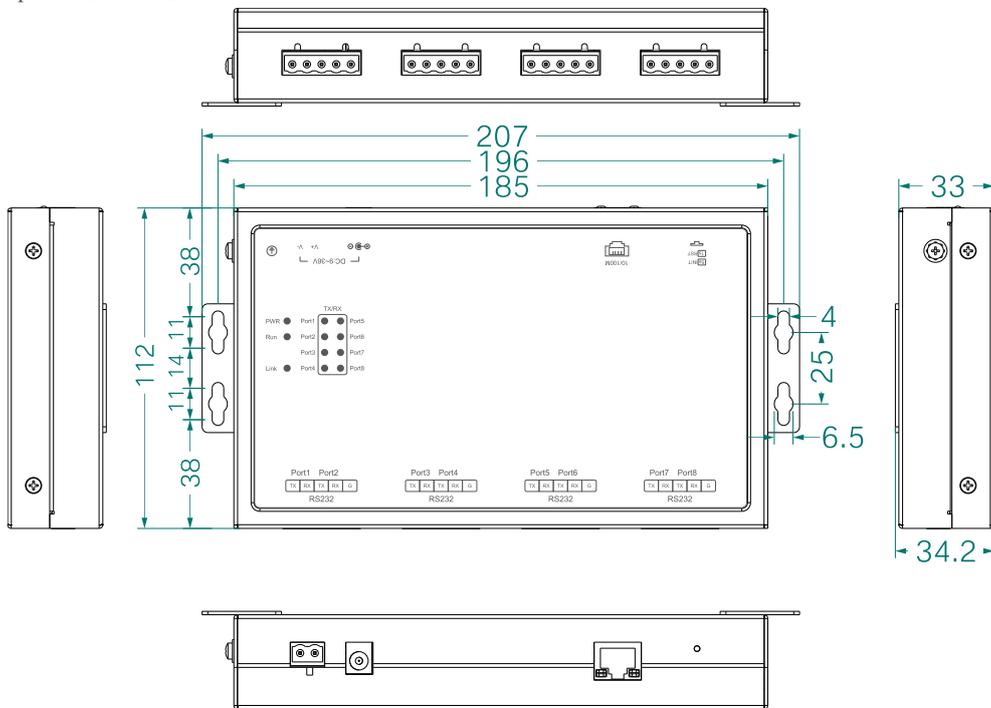
Supporting Software	Network management configuration tool, virtual serial port software, MixView, MaxView
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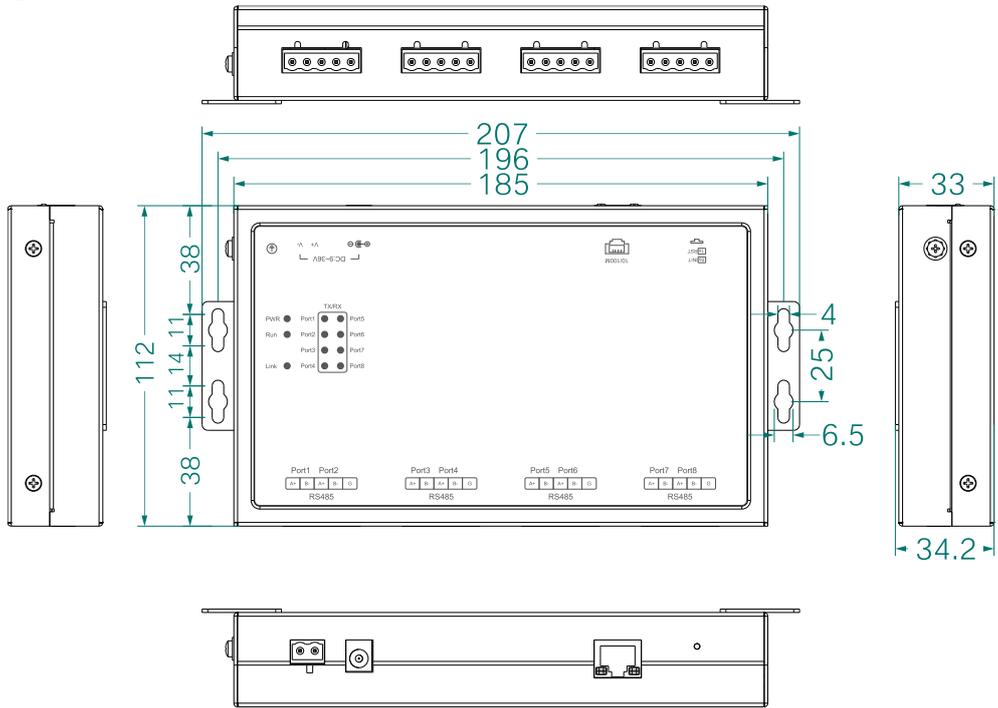
Dimensions

Unit: mm

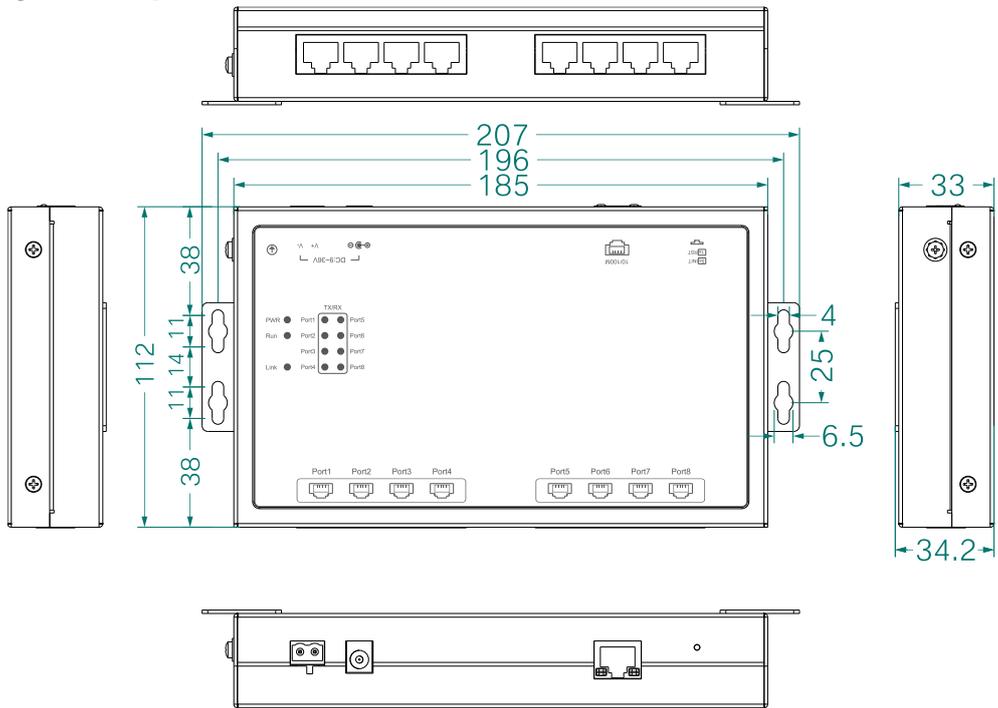
- Mport3108-232:



- Mport3108-485:



- Mport3108-RJ:





Ordering Information

Standard Model	100M Copper Port	RS232	RS485	RS232/485/422	Power Voltage
Mport3108-232	2	8	—	—	DC 9~36V
Mport3108-485	2	—	8	—	
Mport3108-RJ	2	—	—	8	



Contact Us

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