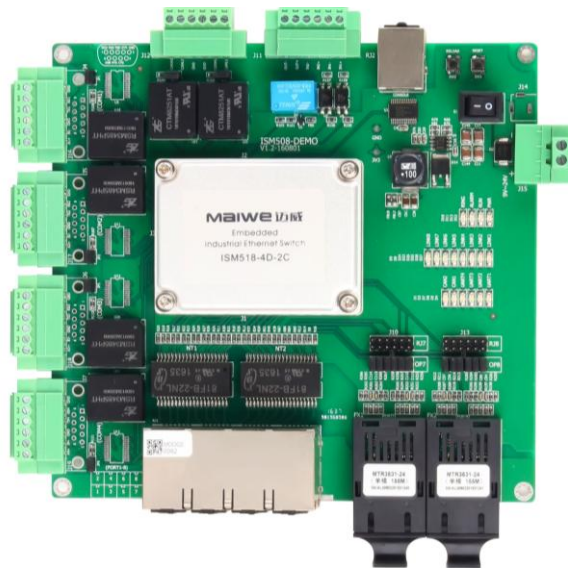


MIEN5108

8-Port Embedded Industrial Ethernet Switch

Product description

MIEN5108 layer 2 embedded industrial Ethernet switch is a high-performance Ethernet embedded product for coal mine energy users. The product uses high-performance industrial-grade switching chips, supports 8x100M ports and 4 data ports .It is designs for customers to quick integrate industrial Ethernet switches, industrial field RS-485 / RS-232 communication and CAN communication. The module can be widely used in rail transit, power, water conservancy, coal mine, chemical industry, wind power generation, video surveillance, defense and military industries.



Features:

- 8 *10/100M based-Fx /Tx optional interface configurations;
- Support 2 RS-485 ports or 2 CAN bus data interfaces;
- Support interface status indicator display and extension;
- Support MW-Ring ring network patent technology (failure recovery time is less than 20ms);
- Support static multicast filtering technology, IGMP Snooping;
- Support broadcast storm suppression and port rate control functions;
- Support industrial grade power input, low power design;
- Support relay power down, fiber drop, storm alarm output;
- Support network management functions such as VLAN and QoS;
- Industrial grade wide temperature design, fanless thermal design.

Product specification

Software performance

Switching Function	Support port speed limit Support port VLAN, IEEE 802.1Q VLAN Support broadcast storm suppression
Redundancy protocol	Support MW-Ring and the recovery time<20ms
Multicast routing	Support IGMP snooping/ IGMP v1/v2 Support GMRP Support static multicast
Service quality management	Support Qos priority function
Management and maintenance	Support Console/Web management methods Support host computer management Support SNMPv1 / v2c, which can be managed centrally through Maiwe PC Support software upgrade Support host computer IP / MAC conflict detection Support power failure alarm, power alarm, port alarm, support port mirroring Support log viewing

Technical specifications

Ethernet Standard	IEEE802.3 (Ethernet), IEEE802.3u (100Base-TX and 100Base-FX), IEEE802.3x (flow control), IEEE802.1Q (VLAN), IEEE802.1p (priority)
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Switch properties

Priority queue	4
VLAN number	4096
IGMP Groups	256
MAC table	2k
Switch Bandwidth	1.6Gbps
Switch Latency	<5μs

Interface

100M ports	Port numbers: 8 Connector: 1x9 fixed fiber port(single or multimode, SC/FC/ST available)or RJ45 Baud rate:100Base-FX/ 10/100M-T(x) auto-negotiation RJ45 port
Serial port	Port number: 2, multiplexed with serial interface Interface form: 6 core with lock 5.08mm pitch signal wiring socket

	Interface rate: 300 ~ 115.2Kbps
	Port number: 2, multiplexed with serial interface
CAN port	Interface form: 6 core with lock 3.81mm pitch signal wiring socket
	Port rate:1 MB/s(MAX)
Console port	RS232/RJ45
Terminal block for power input	2 core with lock 5.08mm pitch signal wiring socket
Terminal block for relay alarm	6-core with lock 5.08mm pitch alarm signal wiring socket, 2 power input alarm, 1 relay output alarm

Communication distance

Twisted-pair	100m(CAT5/CAT5e cable)
Multi-mode fiber	100M multi-mode: 1310nm 2km
Single mode fiber	100M single mode: 1310nm 20km/40km; 1550nm: 60km/80km

LED indicator lights

	Power status indicator
	system operation indicator
Indicator lights	host computer operation indicator
	100M interface indicator
	CAN data transceiver indicator
	serial port data transceiver indicator

Power Requirements

Power input	DC12V/DC24V/DC48V available
Full-load consumption	<7W(Max)

Working Environment

Operating Temperature	-40°C~85°C
Storage temperature	-40°C~85°C
Ambient Humidity	5%~95%(non-condensing)

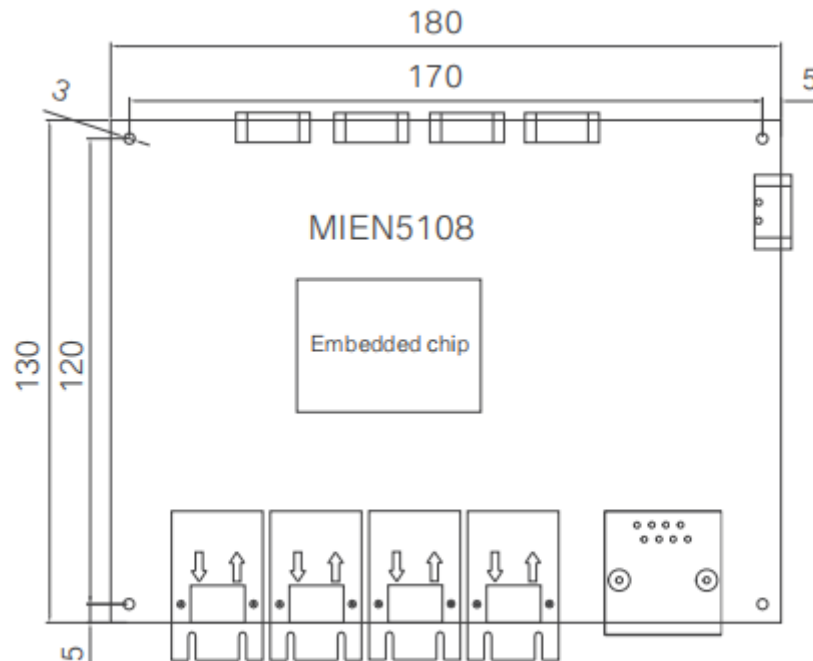
Physical Characteristics

Shell	None
Installation	Positioning hole installation
Dimension	180mmx130mmx24.2mm

Warranty

Warranty period	5 Years
Certification	CE, FCC, RoHS

Dimensional drawing



Positioning hole installation (Unit: mm)

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Ordering information

MIEN5108-4D485-2CAN	8 x10/100M based-Tx ports + 4 RS485 ports + 2 CAN ports,DC9-36V
MIEN5108-2F-4D485-2CAN	2 x10/100M based-Fx ports + 6 x10/100M based-Tx ports + 4 RS485 ports + 2 CAN ports, DC9-36V
MIEN5108-4F-2D485-2CAN	4 x10/100M based-Fx ports + 4x10/100M based-Tx ports + 4 RS485 ports + 2 CAN ports, DC9-36V