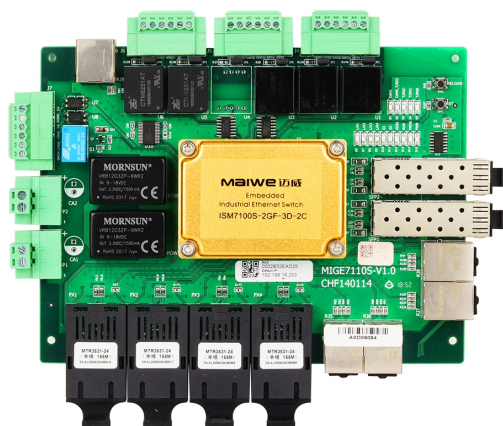


MISCOM7110S SERIES

Layer2 Embedded Managed Industrial Ethernet Switch

Product description

MISCOM7110S layer-2 embedded Industrial Ethernet Switch is a high-performance Ethernet embedded product developed by Maiwe Communication for coal mine industry. The product uses high-performance industrial-grade switch chip and supports 2 Gigabit ports + 8x100M ports ,especially suitable for large data traffic transmission applications. Meanwhile,MISCOM7100S also supports MW-Ring that independently developed by Mawe. Recovery time is less than 20 ms



Features:

- 2 gigabit fiber port +8x100M based-Fx/Tx Port
- Support 3 serial port + 2 CAN port
- Support MW-Ring with the recovery time<20ms
- Support static multicast/IGMP Snooping
- Support broadcast storm suppression/ Rate limit
- Support industrial level power input with low power consumption design
- support power loss, fiber drop, broadcast storm alarm output
- Support VLAN/Qos and other web management
- Industrial grade wide temperature/ fanless

Product specification

Software performance

	Support VLAN/IEEE 802.1Q VLAN
	Support port aggregation.
Switch Function	Support flow control.
	Support Rate limit
	Support broadcast storm suppression.
Redundancy protocol	Support MW-Ring and the recovery time<20 ms.
	Support RSTP/STP
	Support IEEE 802.1x
Security technology	Support HTTP/HTTPS
	Support RADIUS
	Support User rating
Multicast routing	Support IGMP snooping/ IGMP v1/v2
	Support GMRP/static multicast
Service quality management	Support Qos setting
	Support SP/ WRR queuing
IP management	Support DHCP server
	Support Console and Web management methods
	Support SNMPv1/v2c
	Support software upgrade
Management and maintenance	Support host computer IP/MAC conflict alarm
	Support power failure alarm/power alarm/port alarm/support port mirroring
	Support log viewing
	Support Link-check
	Support NTP
	Support accept frame transmission frame statistics

Technical specifications

	IEEE802.3(Ethernet)
	IEEE802.3u (100Base-TX&100Base-FX)
	IEEE802.3x (Flow Control)
	IEEE802.3ab (1000Base-T)
Ethernet Standard	IEEE802.3z (1000Base-LX)
	IEEE802.1D (STP)
	IEEE802.1w (RSTP)
	IEEE802.1Q (VLAN)
	IEEE802.1p (Priority)
	IEEE802.1x (Visiting Control)

Switch properties

Priority queue	4
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VLAN Number	4096
IGMP Groups	256
MAC table	8k
Switch Bandwidth	5.6Gbps
Switch Latency	<5μs

Interface

	Port numbers: 2
Gigabit ports	Connector: Interface form: SFP optical port (LC interface, single / multi-mode optional) or 10/100 / 1000M adaptive copper module. Baud rate: 1000Base-LX(fiber port), 10/100/1000M for copper port
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 Port number:2 RS232/RS485
Serial port	Interface form: 6 core with lock 3.81mm pitch signal wiring socket Port rate:300~115.2Kbps Port number:1
CAN port	Interface form: 6 core with lock 3.81mm pitch signal wiring socket Port rate:1 MB/s(MAX)
Debugging 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 3.81mm pitch alarm signal wiring socket, 2 power input alarm, 1 relay output alarm

Communication distance

Twisted-pair	100m(CAT5/CAT5e cable)
Multimode fiber	Gigabit multimode: 850nm 550m; 10/100M multimode: 1310nm 2km;
Single mode fiber	Gigabit single mode: 1310nm 20km; 10/100M single mode: 1310nm 20/40km;1550nm 60/80km;

LED indicator lights

	Host computer running indicator
Front panel LED	System Running indicator
	Power States indicator
	CAN Data transmission and reception indicator

Serial port Data transmission and reception indicator

100M port 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)

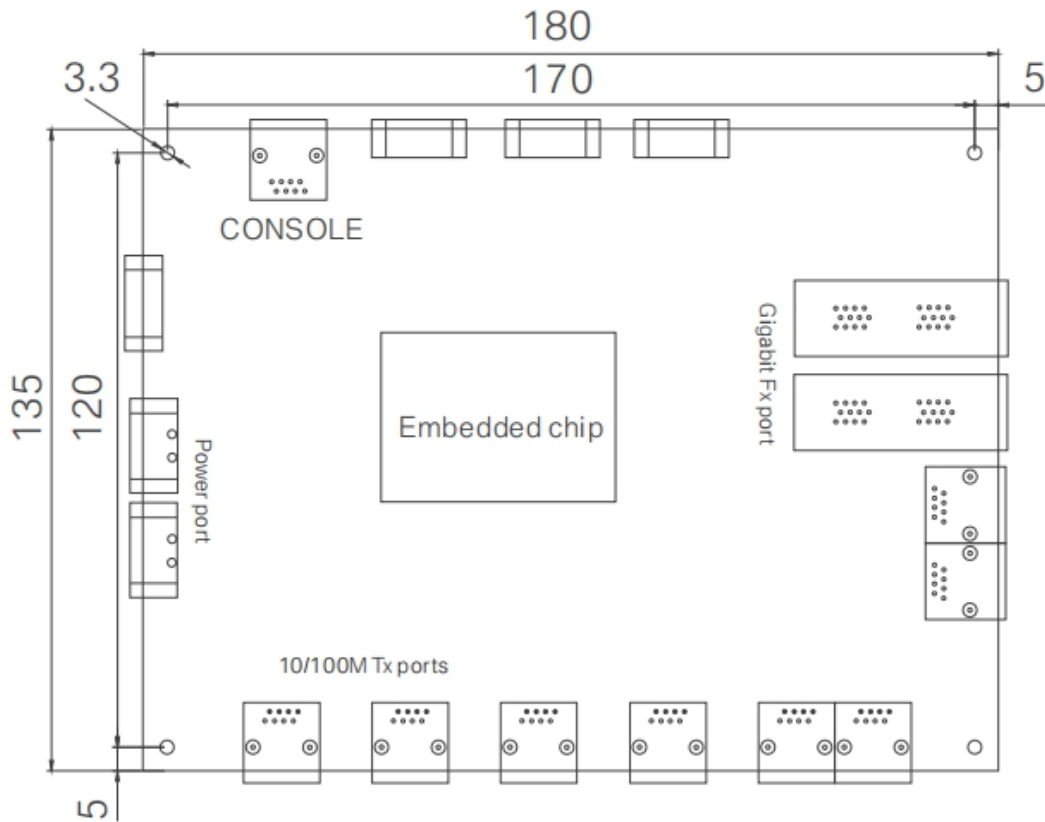
Physical Characteristics

Shell	None
Installation	Positioning hole installation
Dimension	180mm×135mm

Warranty

Warranty period	5 Years
Certification	CE, FCC, RoHS

Dimensional drawing



Positioning hole installation (Unit: mm)

Ordering information

MISCOM7110S-2GF-3D485-2CAN	2 Gigabit fiber ports + 8x10/100M copper ports + 3 RS485 ports + 2 CAN ports, single DC12/24 /48V power supply.
MISCOM7110S-2GF-F(M/S)-2D485-2CAN	2 Gigabit fiber ports + 1x100M fiber port + 7x10/100M copper ports + 3 RS485 ports + 2 CAN ports, single DC12 /24 / 48V power supply.
MISCOM7110S-2GF-2F(M/S)-3D485-2CAN	2 Gigabit fiber ports + 2x100M fiber ports + 6x10/100M copper ports + 3 RS485 ports + 2 CAN ports, single DC12/24/48V power supply.
MISCOM7110S-2GF-3F(M/S)-2D485-2CAN	2 Gigabit fiber ports + 3x100M fiber ports + 5x10/100M copper ports + 3 RS485 ports + 2 CAN ports, single DC12/24/ 48V power supply.
MISCOM7110S-2GF-4F(M/S)-2D485-2CAN	2 Gigabit fiber ports + 4x100M fiber ports + 4x10/100M copper ports + 3 RS485 ports + 2 CAN ports, single DC12/24/ 48V power supply.