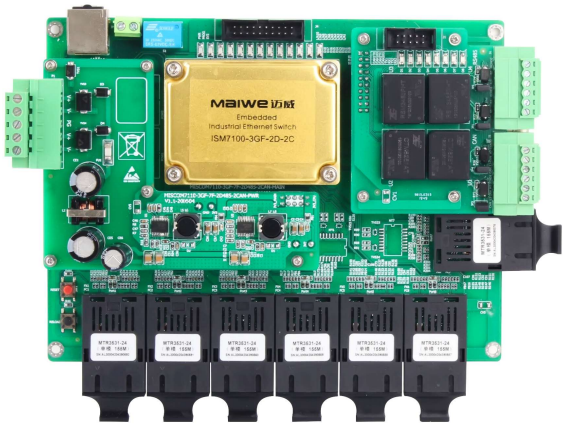
MISCOM7110 SERIES

10 ports Gigabit Embedded Managed Industrial Ethernet Switch

Product description

MISCOM7110 layer-2 managed embedded Industrial Ethernet Switch is a high-performance product developed by Maiwe Communication for coal mining industry. The product uses industrial-grade switch chip (Broadcom/Marvel) to make sure the high performance for the software and hardware, meet large data traffic transmission requirements. Moreover, ISM7100 also supports MW-Ring (Maiwe Patent), the recovery time is less than 20 ms.



Features:

-Support 3-port Gigabit fiber ports and 7-port 100Mbased-Tx/Fx ports

-Support 2-port RS485 and 2-port CAN port

-Support port status indicator display and extension

-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

-40°C~85°C operating temperature/ fanless design

Product specification

Software performance

Switch Function	Support VLAN/IEEE 802.1Q VLAN h Support port aggregation. Support flow control. Support Rate limit Support broadcast storm suppression.
Redundancy protocol	Support MW-Ring and the recovery time<20 ms. Support RSTP/MSTP
Security technology	Support IEEE 802.1x 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
Management and maintenance	Support Console and Web management methods Support SNMPv1/v2c Support software upgrade 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

Ethernet Standard	IEEE802.3-Ethernet IEEE802.3u-100BaseTX/100Base-FX IEEE802.3x-Flow Control IEEE802.3z-1000BaseLX IEEE802.3ab-1000BaseTX IEEE802.1D-STP IEEE802.1w-RSTP IEEE802.1Q -VLAN Tagging IEEE802.1p -Class of Service IEEE802.1x-Port Based Network Access Control

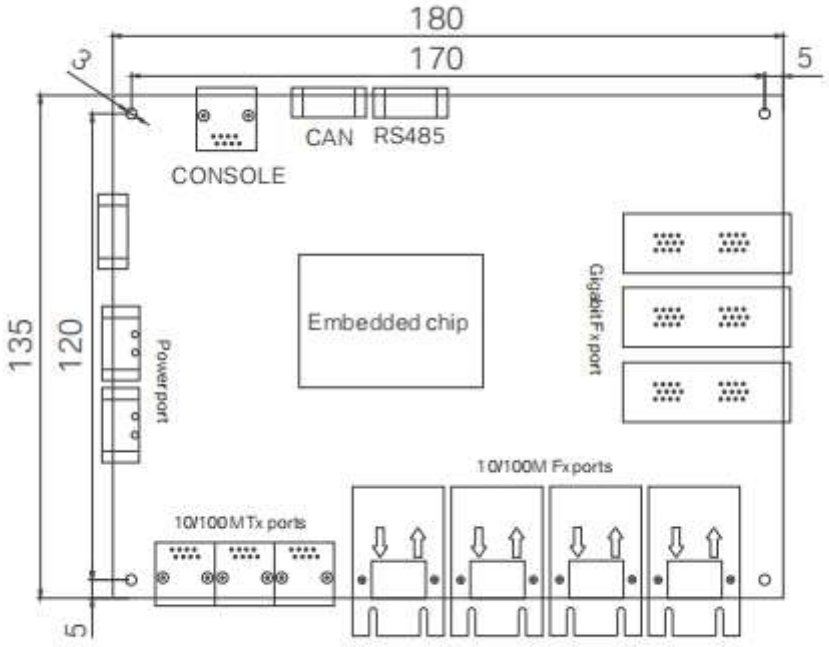
Switch properties

Priority queue	4

VLAN Number	4096
IGMP Groups	256
MAC table	8k
Switch Bandwidth	7.6Gbps
Switch Latency	<5μs
Interface	
Gigabit ports	Port numbers: 3 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:7 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 RS232/RS485 Interface form: 6 core with lock 3.81mm pitch signal wiring socket Port rate:300~115.2Kbps
CAN port	Port number:2 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 5.08mm 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	
Front panel LED	Host computer running indicator 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	<9W(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	180mmx135mm
Warranty	
Warranty period	5 Years
Certification	CE, FCC, RoHS

Dimensional drawing



Positioning hole installation (Unit: mm)

Ordering information

MISCOM7110-3GF-2D485-2CAN	3 Gigabit fiber ports +7x10/100M copper ports + 2 RS485 ports + 2 CAN ports, single DC12/24 /48V power supply.
MISCOM7110-3GF-F(M/S)-2D485-2CAN	3 Gigabit fiber ports + 1x100M fiber port + 6x10/100M copper ports + 2 RS485 ports + 2 CAN ports, single DC12 /24 / 48V isolated power supply.
MISCOM7110-3GF-2F(M/S)-2D485-2CAN	3 Gigabit fiber ports + 2x100M fiber ports + 5x10/100M copper ports + 2 RS485 ports + 2 CAN ports, single DC12/24/48V power supply.
MISCOM7110-3GF-3F(M/S)-2D485-2CAN	3 Gigabit fiber ports + 3x100M fiber ports + 4x10/100M copper ports + 2 RS485 ports + 2 CAN ports, single DC12/24/ 48V power supply.
MISCOM7110-3GF-4F(M/S)-2D485-2CAN	3 Gigabit fiber ports + 4x100M fiber ports + 3x10/100M copper ports + 2 RS485 ports + 2 CAN ports, single DC12/24/ 48V power supply.
MISCOM7110-3GF-6F(M/S)-2D485-2CAN	3 Gigabit fiber ports + 6x100M fiber ports + 1x10/100M copper ports + 2 RS485 ports + 2 CAN ports, single DC5～32V power supply.
MISCOM7110-3GF-7F(M/S)-2D485-2CAN	3 Gigabit fiber ports + 7x100M fiber ports + 2 RS485 ports + 2 CAN ports, single DC5～32V power supply.