

MISCOM7028-4GF

28-port Gigabit Rack-mount Layer 2 Managed Industrial Ethernet Switch

Product description

MISCOM7028 series layer 2 Gigabit industrial Ethernet switch is a high-performance Ethernet communication product developed by Maiwe for industrial communication. The product uses high-performance industrial-grade switch chip, supports 4 Gigabit ports + 24 10/100M ports, AC220V / DC110V industrial power input, which improves the stability of network communication and save wiring. The MISCOM7028 series products can meet the high-end requirements of the smart grid especially in the industrial application environment and the communication performance of the equipment.



Features:

- Support 4 Gigabit fiber ports + 24x10/100M ports
- Support front and rear indicator status display
- 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 with isolated power supply, optional dual redundant power supply
- Support status relay alarm output such as power loss, fiber drop, and storm
- Supports network management functions such as VLAN, QoS, port aggregation, and port mirroring
- Industrial grade wide temperature design, fanless thermal design
- Meet the requirements of harsh industrial environment
- Conforms to IEC61850-3 standard, and meets Grade A standard of State Grid

Product specification

Software function

Switch Properties	Support port speed limit Support port aggregation Support port flow control Support port VLAN, IEEE 802.1Q VLAN Support broadcast storm suppression
Redundancy Protocols	Support MW-Ring ring network technology, self-healing time <20ms Support STP/RSTP
Multicast	Support IGMP v1/v2, IGMP Snooping Support GMRP and Support static multicast filtering
Security	Support IEEE 802.1x, HTTP, RADIUS, user grading and MAC address binding
Service quality management	Supports SP and WRR queuing. Support QoS setting
IP address management	Support DHCP server
Management and maintenance	Support Console, WEB management Support SNMPv1/v2c Support software upgrade Support host computer IP/MAC conflict alarm Support for 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 parameters

Protocol Standard	IEEE802.3, IEEE802.3u (100Base-TX&100Base-FX), IEEE802.3x (Flow control), IEEE802.3ab(1000Base-T), IEEE802.3z(1000Base-LX), IEEE802.1D(STP), IEEE802.1w(RSTP), IEEE802.1Q(VLAN), IEEE802.1p(Priority), IEEE802.1x(Access control)
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Switch capability

Priority Queues	8
VLAN Number	4096
IGMP multicast group	1k
MAC Table Size	8K
Backplane bandwidth	12.8Gbps
Switch Delay	<5μs

Interface

Gigabit ports	Port numbers: 4
	Connector: SFP fiber port(LC connector, single-mode/ multi-mode) or Self-adaption 10/100/1000M-TX Interface form: SFP optical port (LC interface, single/ multi-mode optional) or Self-adaption 10/100/1000M-TX
	Baud rate: 1000Base-LX (optical port), Self-adaption 10/100/1000MBase-TX
100M Port	Port number: 24
	Connector: 1×9 fixed optical port (single/ multi-mode optional, optional SC/FC/ST interface) or RJ45 100M TX Baud rate:100Base-FX(optical port), Self-adaption 10/100MBase-TX
Console port	RS232, RJ45
Terminal block for relay alarm	3-pin 5.08mm terminal block, 1A@24VDC
Terminal block for power input	5-pin 5.08mm terminal block
Communication distance	
Twisted-pair	100m(CAT5/CAT5e cable)
Multi-mode Fiber	Gigabit multi-mode: 850nm, 500m; 100M multi-mode: 1310nm, 2km
Single-mode Fiber	Gigabit single-mode: 1310nm, 20km; 100M singlemode1310nm, 20/40km; 1550nm, 60/80km
LED indicator lights	
Front panel LED lights	Port light: LINK/ACT; SPEED
	System work light: RUN
	Power status light: PWR1; PWR2;
	Alarm light: ALARM
Back panel LED lights	RJ45 Port light: LINK/ACT; SPEED
	Fiber light: LINK/ACT
Power	
Input power	AC/DC220V(85-264VAC/110-370VDC)
Input current	0.25A@110VAC/VDC
Power consumption	<40W@(MAX)
Overload protection	Support
Reverse protection	Support
Redundancy protection	Support

Working Environment

Operating Temperature	-40°C~85°C
Storage temperature	-40°C~85°C
Ambient Humidity	5%~95%

Physical Characteristics

Shell	IP40 protection, aluminum alloy shell
Installation	Standard 19-inch rack mounting, Support front and rear outlet installation
Dimension	482.6mm×44mm×315mm

Industry standard

EMC	EN61000-4-2(ESD), Level 4 EN61000-4-3(RS), Level 4 EN61000-4-4(EFT), Level 4 EN61000-4-5(Surge), Level 4 EN61000-4-6(CS), Level 4 EN61000-4-8, Level 5
Impact	IEC60068-2-27
Falling	IEC60068-2-32
Shock	IEC60068-2-6

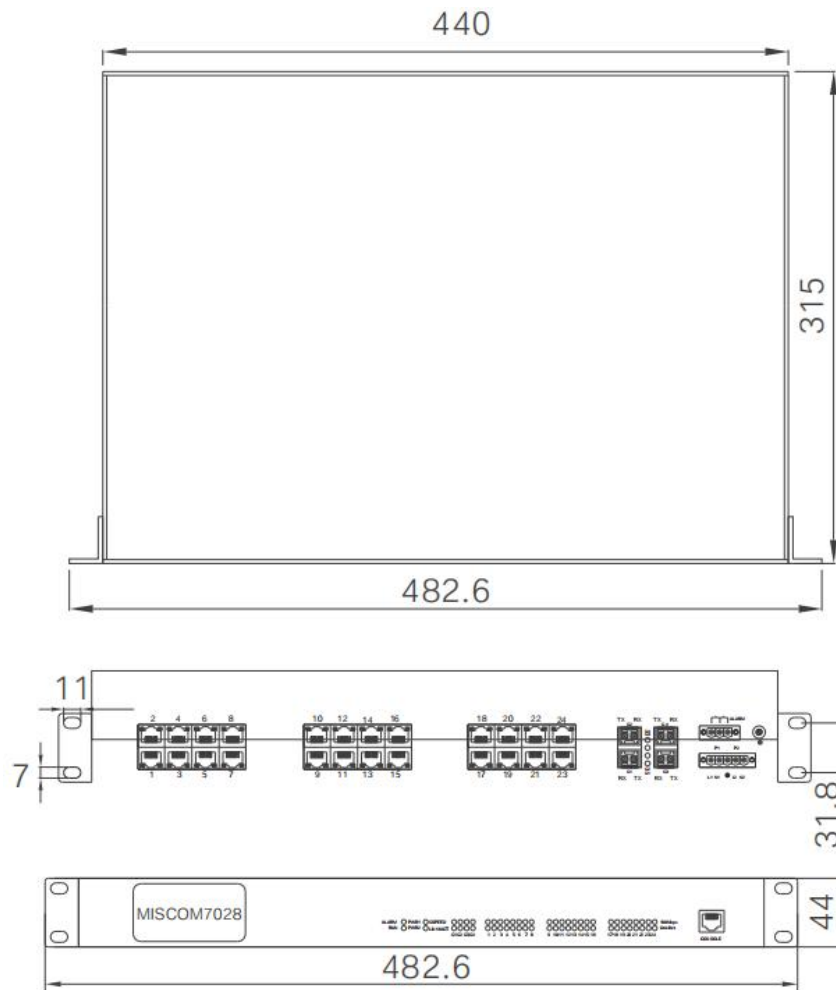
Warranty

Warranty	5 Years
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Certification

Certification	CE, FCC, RoHS
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Dimensional drawing



Rack mounting (Unit: mm)

Ordering information

MISCOM7028-4GF-AD20	4 Gigabit SFP ports +24x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply
MISCOM7028-4GF-4M-SC02-AD220	4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,SC connector.2km.
MISCOM7028-4GF-4M-ST02-AD220	4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,ST connector.2km.
MISCOM7028-4GF-4M-FC02-AD220	4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,FC connector.2km.
MISCOM7028-4GF-4S-SC20-AD220	4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,SC connector.20km.
MISCOM7028-4GF-4S-ST20-AD220	4 Gigabit SFP ports +4x100M fiber ports +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,ST connector.20km.

MISCOM7028-4GF-4S-F C20-AD220	4 Gigabit SFP ports +4x100M fiber port +20x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,FC connector.20km.
MISCOM7028-4GF-8M- SC02-AD220	4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,SC connector.2km
MISCOM7028-4GF-8M- ST02-AD220	4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,ST connector.2km
MISCOM7028-4GF-8M- FC02-AD220	4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,FC connector.2km
MISCOM7028-4GF-8S-S C20-AD220	4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,SC connector.20km
MISCOM7028-4GF-8S-S T20-AD220	4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,ST connector.20km
MISCOM7028-4GF-8S-F C20-AD220	4 Gigabit SFP ports +8x100M fiber ports+16x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,FC connector.20km
MISCOM7028-4GF-12M- SC02-AD220	4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,SC connector.2km
MISCOM7028-4GF-12M- ST02-AD220	4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,ST connector.2km
MISCOM7028-4GF-12M- FC02-AD220	4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,FC connector.2km
MISCOM8028-4GF-12S- SC20-AD220	4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,SC connector.20km
MISCOM7028-4GF-12S- ST20-AD220	4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,ST connector.20km
MISCOM7028-4GF-12S- FC20-AD220	4 Gigabit SFP ports +12x100M fiber ports+12x10/100M RJ45 ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,FC connector.20km
MISCOM7028-4GF-24M- SC02-AD220	4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,SC connector.2km
MISCOM8028-4GF-24M- ST02-AD220	4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,ST connector.2km
MISCOM7028-4GF-24M- FC02-AD220	4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply,multi-mode,FC connector.2km
MISCOM7028-4GF-24S- SC20-AD220	4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,SC connector.20km
MISCOM7028-4GF-24S- ST20-AD220	4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,ST connector.20km
MISCOM7028-4GF-24S- FC20-AD220	4 Gigabit SFP ports +24x100M fiber ports, single AC85-264V/ DC110~370V isolate power supply,single-mode,FC connector.20km

