

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

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| 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

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| 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

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

Interface

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| 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

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

Physical Characteristics

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| 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

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|---------|---|
| 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 |

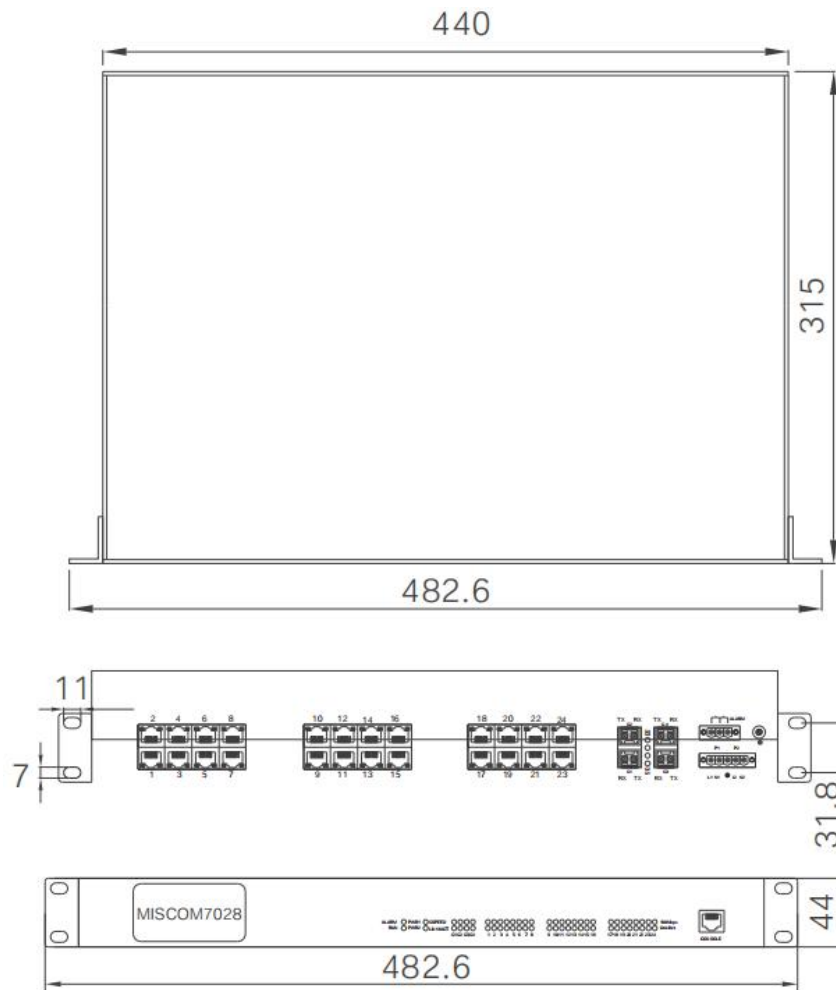
Warranty

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| Warranty | 5 Years |
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Certification

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| Certification | CE, FCC, RoHS |
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Dimensional drawing



Rack mounting (Unit: mm)

Ordering information

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| 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. |

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| 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 |
| MISCOM7028-4GF-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 |
| MISCOM7028-4GF-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 |
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