

## MISCOM8028-4GF

### 28-Port layer 3 Gigabit Industrial Ethernet Switch

#### Product description

MISCOM8028 layer 3 Gigabit Industrial Ethernet Switch is a high-performance Ethernet communication product developed by Maiwe for industrial communication. MISCOM8028 supports 4 Gigabit interfaces and 24 10/100M optional interfaces. The MISCOM8028 is a 19-inch rack mount switch which supports front panel mounting and rear panel mounting. It supports port, VLAN, multicast, QoS, and fast redundancy ring etc layer 2 characters, it also supports static and dynamic routing, multicast routing, multiple management methods of Console and Web, as well as network management software of the host computer. It provides high performance and highly reliable solutions for industrial communica



#### Features:

- 4 Gigabit SFP port+24x100M ports
- Support RIP/OSPF/PIM Layer 3 Routing Protocol
- Support MW-Ring/MSTP/VRRP/EAPS for network redundancy
- Support multiple management methods and network centralized management
- Single rib type fanless design
- Front and rear indicator design
- IEC61850-3 certified, State Grid Class A standard

## Product specification

### Software performance

|                            |  |
|----------------------------|--|
| Switch Function            | Support VLAN<br>Support GVRP<br>Support port aggregation.<br>Support flow control.<br>Support Rate limit<br>Support broadcast storm suppression.   |
| Redundancy protocol        | Support VRRP/EAPS<br>Support MW-Ring and the recovery time<20 ms.<br>Support RSTP/MSTP and compatible with STP   |
| Multicast routing          | Support IGMP snooping/ IGMP v1/v2/v3<br>Support GMRP<br>Support static multicast<br>Support PIM-SM/PIM-DM  |
| Routing technology         | Support RIPv1/v2/RIPng/OSPFv1/v2<br>Support Static Routing<br>Support PIM-SM/PIM-DM  |
| Service quality management | Support ACL and L2-L7 data Filter<br>Support SP/ WRR queuing   |
| IP management              | Support DHCP server/relay/client   |
| Management and maintenance | Support Console/Telnet/and Web management methods<br>Support SNMPv1/v2c<br>Support FTP/TFTP file transfer and software update<br>Support power failure alarm/power alarm/ port link down alarm/ring alarm<br>Support port mirroring/Syslog/ LLDP/ RTC/SNTPv4 |

### Technical specifications

|                   |   |
|-------------------|---|
| Ethernet Standard | IEEE802.3-10BaseT<br>IEEE802.3u-100BaseTX/100Base-FX<br>IEEE802.3x-Flow Control<br>IEEE802.3z-1000BaseLX<br>IEEE802.3ab-1000BaseTX<br>IEEE802.1ab<br>IEEE802.1D-Spanning Tree Protocol<br>IEEE802.1w-Rapid Spanning Tree Protocol<br>IEEE802.1Q -VLAN Tagging<br>IEEE802.1s Multiple Spanning Tree Protocol<br>IEEE802.1p -Class of Service<br>IEEE802.1X-Port Based Network Access Control<br>GVRP/RIPv1/v2&OSPFv1/v2/v3/VRRP/DHCP/CLI/EAPS/Qos/LACP/LLDP/IGMP/PIM/<br>SNMP/SNTP/SSH |
|-------------------|---|

## Switch properties

|                            |          |
|----------------------------|----------|
| Priority queue             | 8        |
| VLAN ID                    | 4096     |
| Number of multicast groups | 512      |
| MAC table                  | 32k      |
| Switch Bandwidth           | 12.8Gbps |
| Route Table                | 8k       |
| Switch Delay               | <5μs     |

## Interface

|                                |  |
|--------------------------------|--|
| Gigabit ports                  | Port numbers:4   |
|                                | Connector: SFP for fiber port(LC, single or multi-mode), 10/100/1000M for copper port      |
|                                | Baud rate:1000Base-LX(SFP)   |
| 100M ports                     | Port numbers:24  |
|                                | Connector: 9 fixed 100BaseF(x) ports(single or multi-mode, SC/FC/ST available)or RJ45 port |
|                                | Baud rate:100Base-FX/adaptive 10/100M-T(x)   |
| Console port                   | RS232/RJ45   |
| Terminal block for power input | 5.08mm terminal block  |
| Terminal block for relay alarm | 5.08mm terminal block, 1A@24VDC  |

## Communication distance

|                   |   |
|-------------------|---|
| Twisted-pair      | 100m(CAT5/CAT5e cable)  |
| Multi-mode fiber  | Gigabit multi-mode: 850nm, 550m;<br>10/100base multi-mode: 1310nm, 2km                    |
| Single mode fiber | Gigabit single mode: 1310nm 20km<br>10/100Base single mode: 1310nm 20/40km;1550nm 60/80km |

## LED indicator lights

|                 |                             |
|-----------------|-----------------------------|
| Front panel LED | Port light: LINK/ACT; SPEED |
|                 | Running light: RUN          |
|                 | Power LED: PWR1, PWR2       |
|                 | Alarm LED: Alarm            |
| Rear panel LED  | RJ45 LED: LINK/ACT, SPEED   |
|                 | Fiber LED: LINK/ACT         |

## Power Requirements

|                       |                                 |
|-----------------------|---------------------------------|
| Power input           | AC/DC220V(85-264VAC/110-370VDC) |
| Full-load consumption | <35W @ full load                |
| 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%( non-condensing) |

## Physical Characteristics

|              |  |
|--------------|--|
| Shell        | IP40 protection, aluminum alloy shell                      |
| Installation | 19" 1U rack mounted for front and rear outlet installation |
| Dimension    | 482.6 mmx44mmx315mm  |

## Industry standard

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

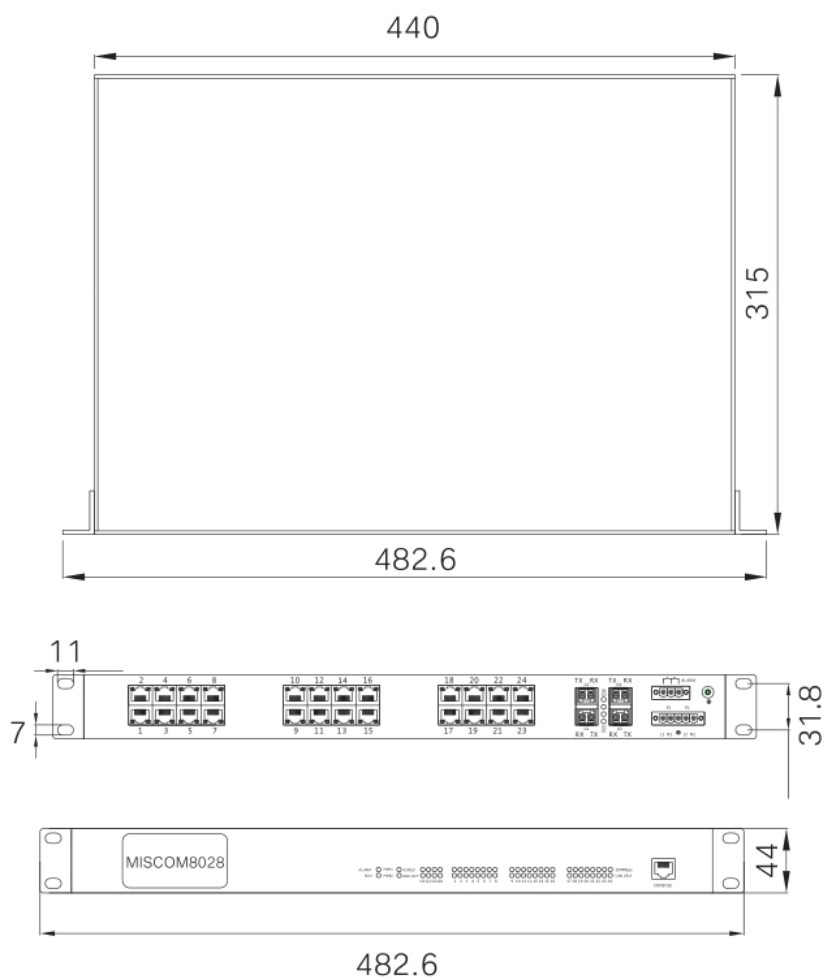
## Warranty

|                 |         |
|-----------------|---------|
| Warranty period | 5 Years |
|-----------------|---------|

## Certification

|               |               |
|---------------|---------------|
| Certification | CE, FCC, RoHS |
|---------------|---------------|

## Dimensional drawing



Rack mounting (Unit: mm)

### Ordering Information

|                                |   |
|--------------------------------|---|
| MISCOM8028-4GF-A D220          | 4 Gigabit Fx ports +24 10/100M Tx ports, single AC85-264V/ DC110~370V isolate power supply                  |
| MISCOM8028-4GF-4F (M/S)-AD220  | 4 Gigabit Fx ports +4 100M Fx ports +20 10/100M Tx ports, single AC85-264V/ DC110~370V isolate power supply |
| MISCOM8028-4GF-8F (M/S)-AD220  | 4 Gigabit Fx ports +8 100M Fx ports +16 10/100M Tx ports, single AC85-264V/ DC110~370V isolate power supply |
| MISCOM8028-4GF-12 F(M/S)-AD220 | 4 Gigabit Fx ports +12 100M Fx ports +12x10/100M Tx, single AC85-264V/ DC110~370V isolate power supply      |
| MISCOM8028-4GF-16 F(M/S)-AD220 | 4 Gigabit Fx ports +16 100M Fx +8 10/100M Tx, single AC85-264V/ DC110~370V isolate power supply             |
| MISCOM8028-4GF-24 F(M/S)-AD220 | 4 Gigabit Fx ports +24 100M Fx, single AC85-264V/ DC110~370V isolate power supply                           |