MISCOM7028-4GF

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

◆ Support 4-way Gigabit SFP Ethernet interface, 24-way Fast Ethernet interface, provide users with flexible networking methods;

◆ Support MW-Ring, ERPS, MSTP, VRRP and other redundant protocols;

◆ Supports various network management protocols such as SNMP and SSH, and can access the command line interface of the switch through software such as HyperTerminal and Telnet;

◆ High-strength closed aluminum shell, IP40 protection level, no fan for efficient heat dissipation, so that the system can work reliably in -40~+85℃ harsh and dangerous industrial environment.

CE FC RoHS CCC MW-Ring IP40

Product Description

MISCOM7028 series Layer 2 switches comply with IEC61850-3 and IEEE1613 industry standards (China State Grid Class A standard), follow the main communication standards in the industrial field, and meet technical issues such as real-time communication and network security. At the same time, this series provides a variety of ways to manage the switch, including accessing the command line interface (CLI) of the switch through HyperTerminal, or managing the switch through the telnet management system, or using the SNMP management software system to manage the switch, and also supports multiple network monitoring protocols: LLDP, SNTPv4, DHCP. At the same time, it provides some common advanced management functions such as MSTP, IGMP, IGMP Snooping, VLAN, GVRP, QoS, port aggregation, port speed limit, broadcast storm suppression, ACL, port mirroring and so on. In terms of device management, it supports FTP/TFTP upgrade, log recording and uploading, and power failure alarm output. In terms of structural installation, you can flexibly choose rack installation or desktop installation. Products are widely used in integrated energy, smart city, rail transit, intelligent transportation, industrial automation and other industrial fields.
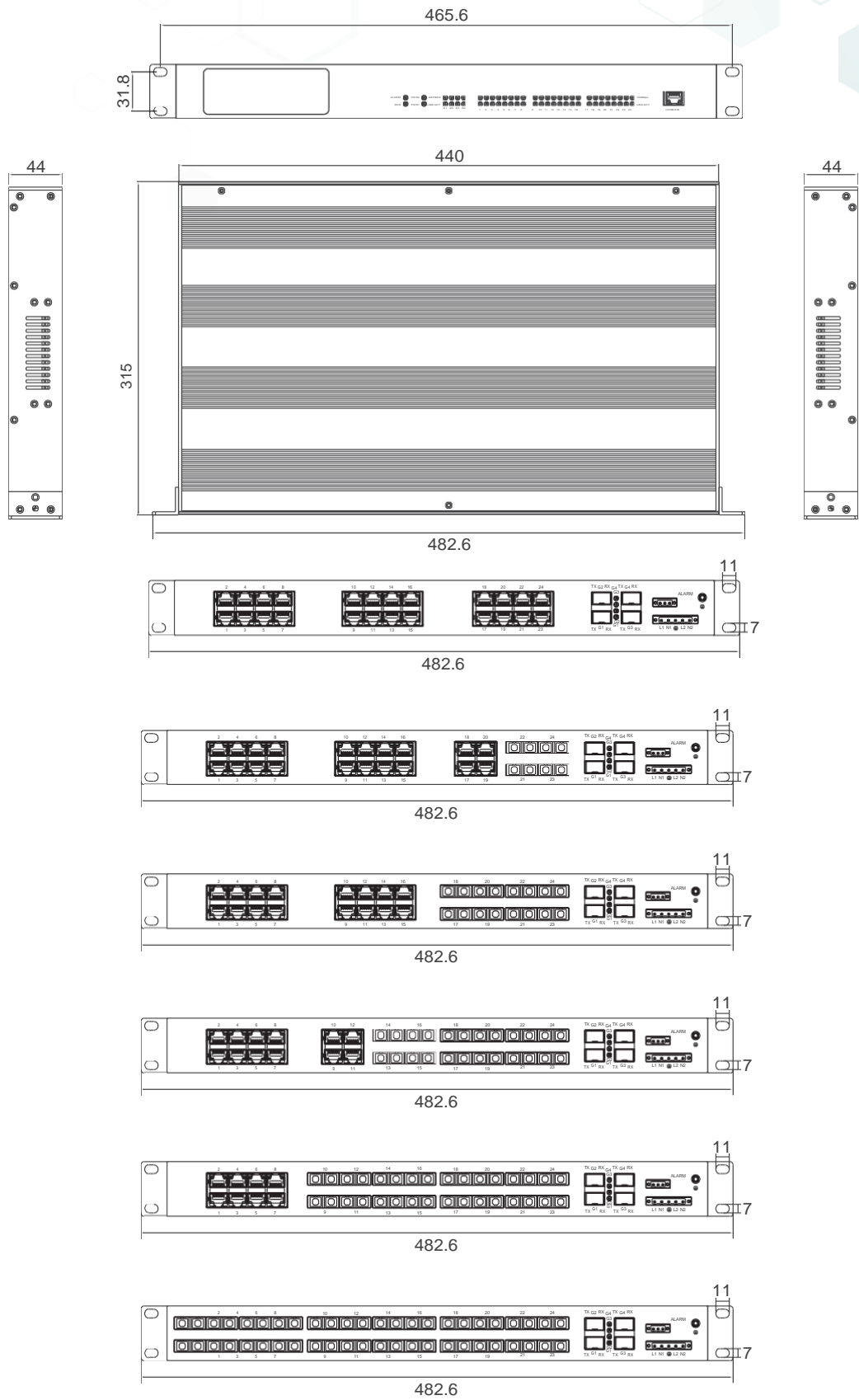
Product Features

- Support 4-channel Gigabit SFP Ethernet interface, 24-channel 100M Fast Ethernet interface, providing users with flexible networking methods;

- Gigabit SFP interface, can support hot-swappable SFP optical module;

- The fast ring network redundancy technology of less than 20ms enhances the reliability of system communication;

- Support IP subnet-based, protocol-based, MAC-based and IEEE802.1Q-based VLAN;

- Support ERPS, MSTP, VRRP and other redundant protocols;

- MAC address table supports 8K;

- Support perfect QoS strategy and multiple queue scheduling algorithms;

- Support various network management protocols such as SNMP, CLI, Telnet and SSH;

- Support hardware ACL function, provide ACL hardware filtering based on L2-L7 layer data;

- Support IGMP Snooping detection function;

- Support broadcast storm suppression;

- Support full-duplex and half-duplex flow control;

- Support power alarm, port alarm, ring alarm function;

- The online software upgrade based on FTP/TFTP can facilitate the user's equipment management and update;

- With graphical network configuration and management and maintenance functions.

Product Specifications

Parameters	
IEEE standard	802.3, 802.3u, 802.3ab, 802.3z, 802.3p, etc.
Exchange function	Support VLAN, GVRP
	Support port speed limit, support storm suppression
	Support port aggregation
	Support port flow control
Redundant technology	support ERPS
	Support MW-Ring ring network technology
	Support MSTP/RSTP, compatible with STP
Multicast technology	Support IGMP v1/v2/v3, IGMP Snooping
	Support GMRP
	Support static multicast
Service quality management	Support ACL to filter L2-L7 layer data
	Support SP, WRR queue scheduling
Management and maintenance	Support CLI, WEB management, LLDP, SNTPv4
	Support SNMPv1/v2c, ACL
	Support unified upper computer software management
Exchange method	store and forward
Backplane bandwidth	12.8Gbps
Fast port	Up to 24 10/100Base-TX or 100Base-FX optional ports
Gigabit port	4 10/100/1000Base-TX or 100/1000Base-SFP ports
100M Copper port	Physical interface: RJ45 with shield or DB9, IEEE802.3 standard
	RJ45 port: 10/100Base-TX (100M)
	Transmission distance: 100 meters (standard CAT5/CAT5e cable)
100M Fiber port	Luminous power: >-12dBm (single mode) >-17dBm (multimode)
	Receiver sensitivity: <-38dBm (single mode) <-35dBm (multimode)
	Wavelength: 1310nm (single-mode) 1550nm (single-mode) 850 nm (multi-mode) 1310 nm (multi-mode)
	Transmission distance: multimode fiber 850nm, 2km; 1310 nm, 2/5km
	Single-mode fiber 1310nm, 20/40/60km; 1550nm, 20/40/60/80/120km
	Connector Type: SC/FC/ST, LC
	Transmission rate: 155Mbps (100M) 1.25Gbps (Gigabit)
Power	Input voltage: 220AC/DC (85-264VAC/110-370VDC)
	Input power consumption: 35W (MAX)
	Overcurrent Protection: Built-in
Mechanical	Physical Dimensions (W×H×D): 482.6mm×44mm×315mm
	Installation method: standard 19' 1U rack type
	Heat dissipation form: aluminum alloy single rib chassis surface heat dissipation, no fan
	Outlet form: front and rear
	Case protection: IP40

Working environment	Working temperature: -40℃~+85℃
	Storage temperature: -40℃~+85℃
	Humidity: 5%~95% (non-condensing)
EMC	EN61000-4-2 Anti-static (ESD): ±8kV contact discharge, ±15kV air discharge
	EN61000-4-3 Electromagnetic Field: 10V/m (80-1000MHz)
	EN61000-4-6 Anti-conduction: 3V (10kHz~150 kHz), 10V (150kHz~80 MHz)
	EN55022: EN55022 Class A

Installation Size

465.6

31.8

44

440

315

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482.6

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Ordering Information

Product Model	1000M Base-FX	100M Base-FX	10/100M Base-TX	Power
MISCOM7028-4GF-AD220	4	/	24	Standard Single AD220V Optional Dual AD220V
MISCOM7028-4GF-4F（M/S）-AD220	4	4	20	
MISCOM7028-4GF-8F（M/S）-AD220	4	8	16	
MISCOM7028-4GF-12F（M/S）-AD220	4	12	12	
MISCOM7028-4GF-16F（M/S）-AD220	4	16	8	
MISCOM7028-4GF-24F（M/S）-AD220	4	24	/	