

CISCOM7220-4GF-4/8F

20-Port L2 Gigabit Managed DIN Rail Industrial Ethernet Switch



- Support 4×Gigabit SFP ports, 4/8×100Base-FX 100M fiber ports, 12/8×10/100Base-T(X) copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP for network redundancy
- Support QoS Priority mapping based on 802.1P/DSCP/port to enhance communication quality
- Support 1xAC 85~264V/DC 110~370V power input or 2x DC9~18V, DC18~36V, DC36~72V power inputs
- High-strength aluminum alloy housing with IP40 protection rating
- -40°C to +75°C operating temperature range

Product Description

The CISCOM7220-4GF-4/8F series is a line of Layer 2 Gigabit managed DIN-rail industrial Ethernet switches designed for high-performance and highly reliable industrial communication networks. The series offers models equipped with 4 Gigabit SFP uplink ports and 16 Fast Ethernet ports, supporting flexible fiber-copper configurations of either 4-fiber/12-copper or 8-fiber/8-copper to meet diverse deployment demands. Built on a store-and-forward switching mechanism, the devices deliver strong bandwidth processing, automatically detect packet errors, and minimize transmission failures while ensuring smooth, stable, and efficient data transmission across Gigabit-level networks. Engineered with industrial-grade components and stringent production standards, the switches feature a rugged metal enclosure, 35mm DIN-rail installation, fanless heat dissipation, and a wide operating temperature range of -40°C to +75°C, ensuring dependable performance even in harsh and demanding industrial environments.

The series supports comprehensive WEB management capabilities and integrates an extensive suite of advanced network protocols, including MW-Ring, ERPS, STP/RSTP, VLAN, LACP, LLDP, SNMP v1/v2c/v3, RMON, QoS, 802.1X authentication, IGMP Snooping, ACL security control, WEB/TELNET/SSH access management, static aggregation, port mirroring, static MAC binding, loopback detection, network

diagnostics, email alarms, SNMP, event logging, and online firmware upgrades. These capabilities enhance network resilience, performance, and security, enabling the series to address complex and mission-critical industrial network architectures. Rigorously tested for functionality, temperature resistance, safety, and EMC compliance, the CISCOM7220-4GF-4/8F series is ideally suited for integrated energy systems, smart cities, rail transit, intelligent transportation, smart factories, industrial automation, and other sectors requiring high-reliability industrial communication infrastructure.

Product Features

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, with detection and prevention of broadcast and multicast packet storms to avoid network storms
- Support link static aggregation and LACP dynamic aggregation to increase transmission bandwidth and enhance link reliability
- Support port mirroring to collect data from port ingress and egress for network detection and fault management
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy division of multiple broadcast domains, enhancing network security
- Support IGMP Snooping to establish a Layer 2 multicast forwarding table, reducing multicast data broadcast in the network, and conserving network resources
- Support LLDP (Link Layer Discovery Protocol) for obtaining LLDP neighbor device information, monitoring link statuses, facilitating topology management, and fault localization
- Support ERPS (Ethernet Ring Protection Switching) for multiple ring network protection, link backup, fast convergence, and improved network stability
- Support RSTP (Rapid Spanning Tree Protocol) compatible with STP (Spanning Tree Protocol) to eliminate network loops and enhance network reliability
- Support WEB control with HTTP and HTTPS protocol access control, as well as login IP address restrictions
- Support SNMPv1/v2c/v3 centralized management and SNMPv1/v2c/v3 TRAP messages, including support for standard TRAP and private TRAP notifications
- Support RMON (Remote Monitoring) for remote network monitoring, statistic, and alarms for various types of data frames, suitable for remote monitoring and management in network management systems
- Support QoS (Quality of Service) to prioritize voice, video, and critical data transmission within network devices, addressing network congestion
- Support ACL (Access Control List) with customization filtering rules for various frame types, enabling filtering or rate limiting of specific packets
- Support 802.1X port authentication for user authentication upon network access, providing local and RADIUS login authentication
- Support alarm functions, including power supply failure, network storms, and port disconnection alarms
- Support loop-back detection to prevent network loops and associated network storms
- Support system log information recording, downloading, and categorization, with output available through WEB pages, log hosts, and consoles

Technical Specifications

Software	
Switching	<p>Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics</p> <p>Support 802.1Q VLAN and port isolation</p> <p>Support MAC address aging and static MAC address binding</p>
Redundancy	<p>Support MW-Ring proprietary ring network technology</p> <p>Support ERPS (Ethernet Ring Protection Switching)</p> <p>Support RSTP (Rapid Spanning Tree Protocol) and is compatible with STP (Spanning Tree Protocol)</p>
Multicast	<p>Support IGMP Snooping</p> <p>Support static multicast MAC address binding</p>
Security Management	<p>Support WEB, TELNET, and SSH access control</p> <p>Support ACL (Access Control List)</p> <p>Support 802.1X port authentication</p> <p>Support loop-back detection, alarms, and Email logging</p>
Management and Maintenance	<p>Support QoS (Quality of Service), SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, and LLDP</p> <p>Support port mirroring and ping</p> <p>Support user privilege management, system logs, local/network time synchronization, and daylight-saving time</p> <p>Support online restart, factory reset, system upgrade, and configuration file upload/download</p> <p>Support MW-NMPv2, MixView, MaxView management</p>
Switch Capability	
Processing Type	Store and Forward
Backplane Bandwidth	12.8Gbps
Buffer Size	3Mbit
MAC Table Size	8K
Interface	

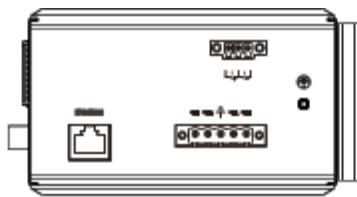
Gigabit Fiber Port	4*1000Base-X SFP ports, compatible with 100Base-FX
100M Fiber Port	4/8*100Base-FX fiber ports, single-mode/multi-mode, SC/FC/ST, wavelength, and transmission distance are optional.
10/100M Copper Port	12/8*10/100Base-T(X) auto-sensing copper ports, support full/half duplex, auto MDI/MDI-X
Relay	1*relay alarm output with 3-pin 3.81mm spacing and locking terminal connectors
CONSOLE	1* CONSOLE port with an RJ45 connector, supporting RS232 signal for device debugging and command configuration
Status LED	Power indicator, operation indicator, alarm indicator, interface indicator, and Ethernet port speed indicator
Power Supply	
Input Voltage	DC model: DC9~18V, DC18~36V, DC36~72V, dual power inputs, non-polar AC model: AC85~264V/DC110~370V
Power Consumption	<14W@DC24V (4F Model), <16W@DC24V (8F Model)
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimensions	160×74×122 mm (DIN rail mounting clip excluded)
Installations	Standard 35mm DIN rail installation
IP Code	IP40
Weight	1.25kg
Working Environment	
Operating Temp	-40°C to +75°C

Storage Temp	-40°C to +85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 * Ethernet ports support 6kV surge protection IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS

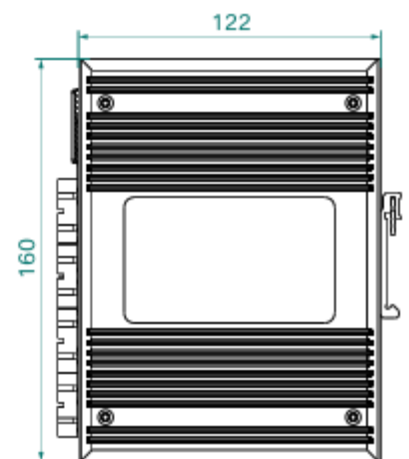
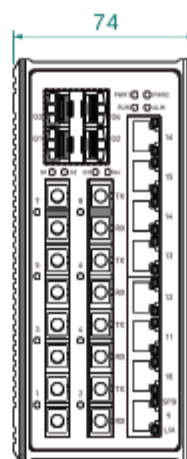
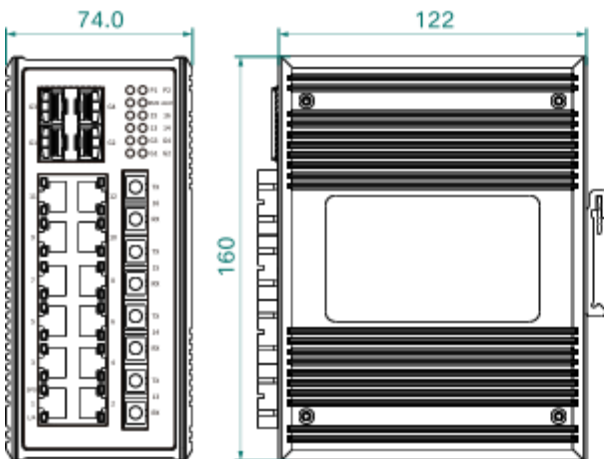
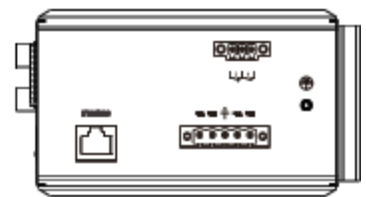
Dimensions

Unit: mm

CISCOM7220-4GF-4F



CISCOM7220-4GF-8F



Ordering Information

Standard Model	1G Fiber Port	100M Copper Port	100M Fiber Port	Input Voltage
CISCOM7220-4GF-4F(M/S)-DC12	4	4	12	Dual DC9~18V power inputs
CISCOM7220-4GF-8F(M/S)-DC12	4	8	8	
CISCOM7220-4GF-4F(M/S)-DC24	4	4	12	Dual DC18~36V power inputs
CISCOM7220-4GF-8F(M/S)-DC24	4	8	8	
CISCOM7220-4GF-4F(M/S)-DC48	4	4	12	Dual DC36~72V power inputs
CISCOM7220-4GF-8F(M/S)-DC48	4	8	8	
CISCOM7220-4GF-4F(M/S)-AD220	4	4	12	AC85~264V/ DC110~370V
CISCOM7220-4GF-8F(M/S)-AD220	4	8	8	



Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.

Tel: +86-027-59257958

Mail: sales@come-star.com

Official site: www.come-star.com

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