CISCOM6220-4F

20-Port Layer 2 Managed DIN Rail Industrial Ethernet Switch

- 4×100Base-FX ports (multi/single-mode, SC/FC/ST connector),16×10/100Base-T(X) ports (RJ45 connector)
- Support ring network redundancy protocol such as MW-Ring, ERPS and STP/RSTP
- Fast ring network redundancy<20ms (MW-Ring) to enhance the reliability of the system communication
- Support QoS (Quality of Service) with prioritization mapping based on 802.1P/DSCP/port
- Support single AC85~264V/DC110~370V power supply or dual DC9~60V power input optional
- With IP40 high strength aluminum alloy shell and fanless design
- -40°C to +75°C working temperature

Product Description

CISCOM6220-4F series is layer 2 managed DIN-rail industrial Ethernet switch, supports 4×100Base-FX ports and 16×10/100Base-T(X) ports. It can automatically detect data packet errors, reduces transmission failures, and easily supports 100M networking, ensuring stable, reliable, and efficient data transmission.

The products are built with industrial-grade components, feature standard 35mm DIN-rail mounting, have a high-strength metal casing for durability, and utilize fanless heat dissipation. They can operate in a wide temperature range from -40°C to +75°C.

CISCOM6220-4F series can be managed through WEB or SNMP, while providing a series of commonly used advanced management functions such as MW-Ring, ERPS, STP/RSTP, VLAN, LACP, LLDP, RMON, ACL, QoS, 802.1X, IGMP Snooping, WEB/TELNET/SSH control, port aggregation, port mirroring, static MAC address forwarding table, network diagnostic, loopback detection, email/delay fault alarms and firmware online upgrades. This product can be widely used in industrial fields such as comprehensive energy, smart cities, intelligent transportation, smart factories, and industrial automation.

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 MAC address table and aging time limit, static unicast/multicast MAC address and interface binding, ensuring the use of legitimate users
- 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 TELNET and SSH access control, SSH can provide secure remote login, ensuring data integrity and reliability
- Support RMON (Remote Monitoring) for remote network monitoring, statistics, 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 customizable 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 relay alarm mode, including network storm, dual power failure, port disconnection and other alarm information
- Support loop back detection to prevent network storms
- Support observers and administrators, with hierarchical management of user permissions

- Support system logging of WEB, LINK, PROFIG, AUTO, STORM, RING, SNMP, SYS and other log information, and support remote monitoring of log hosts

Technical Specifications

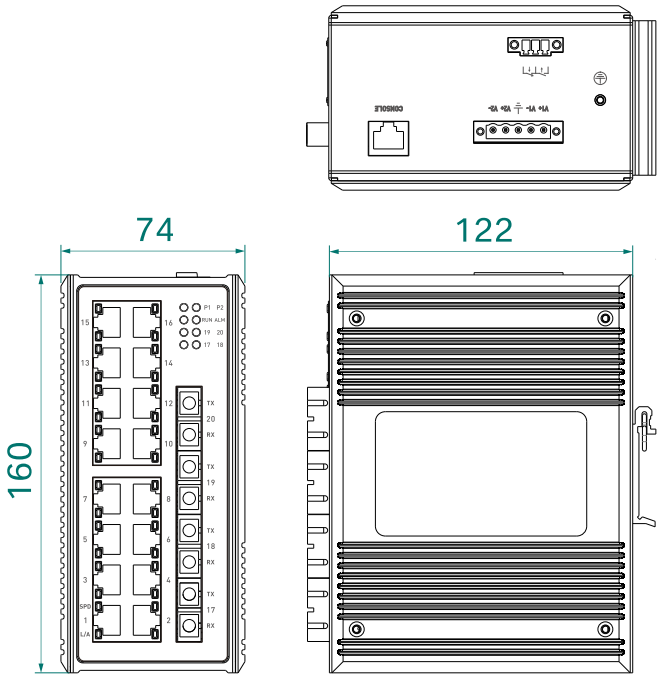
Software	
Switching	Support port configuration, such as port speed, duplex mode, flow control, maximum transmission unit, and etc. Support 802.1Q VLAN and port isolation Support port speed limit, storm suppression, storm detection, static port aggregation, LACP Support MAC address aging and static unicast MAC address binding
Redundancy	Support MW-Ring/MW-RingV2 private ring network technology Support ERPS Support RSTP and compatible with STP
Multicast	Support IGMP snooping Support static multicast MAC address binding
Security Management	Support WEB, TELENT, SSH control Support ACL and filters data of L2-L4 layers Support 802.1X port authentication Support relay alarms and email logs Support loop back detection
Management and Maintenance	Support QoS service quality, 802.1P/DSCP/port priority mapping, absolute and relative priority control Support SNMP v1/v2c/v3, LLDP, RMON, private MIB and Trap Support port mirroring and ping Support user permission management, system logs, SNTP client Support online restart, factory reset, system upgrade, and configuration file upload/download Support unified upper computer software management
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	12.8Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K

Interface	
100M Fiber Port	4x100Base-FX ports (SC/FC/ST, single mode/multimode, wavelength and transmission distance are optional)
100M Copper Port	16x10/100Base-T(X) auto-sensing RJ45 ports, support full/half duplex and auto MDI/MDI-X
Relay	1 relay alarm output, 3.81mm pitch 3-pin terminal block
CONSOLE	1 CONSOLE port with a RJ45 connector, supporting RS232 signal for device debugging and command configuration
Status LED	Power indicator, operation indicator, alarm indicator, interface indicator, and port rate indicator
Power Supply	
Input Voltage	DC model: Dual DC9~60V power input, anti-reverse connection AC model: Single AC85~264V/DC110~370V power supply
Power Consumption	＜12W@DC24V(full load)
Connection	5.08mm pitch 2-pin terminal block
Protection	Built-in over-current protection
Physical Characteristics	
Dimensions	160×74×122 mm (DIN rail mounting clip excluded)
Installations	Easy installation on 35mm DIN rails
IP Code	IP40
Weight	About 1.2kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 ※Ethernet port supports 6kV lighting protection

	IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Fiber Port	10/100M Copper Port	Input Voltage
CISCOM6220-4F	4	16	Dual DC9~60V power input
CISCOM6220-4F-AD220	4	16	Single AC85~264V/DC110~370V power supply

Contact Us

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