CISCOM6220-4F

20-Port Layer 2 100M Managed DIN Rail Industrial Ethernet Switch



- 4×100M fiber ports, 16×100M copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support QoS with priority mapping based on 802.1P/DSCP/port
- Support AC85~264V/DC110~370V power input, or DC9~60V redundant power inputs
- High-strength aluminum alloy shell, IP40-rated housing protection
- -40 ℃~+75 ℃ working temperature range

Product Description

CISCOM6220-4F is a 20-port Layer 2 100M managed DIN-rail industrial Ethernet switch, providing 4 × 100M fiber ports and 16 × 100M copper ports. It adopts a store-and-forward mechanism, delivering strong bandwidth handling capabilities while automatically detecting and correcting packet errors to reduce transmission faults, ensuring stable, reliable, and efficient 100M networking. This industrial Ethernet switch is built with industrial-grade components and engineered to high standards. It supports 35 mm DIN-rail installation, features a high-strength aluminum alloy housing, and operates reliably in temperatures ranging from -40°C to +75°C. The robust industrial design ensures stable communication performance even in harsh environments.

CISCOM6220-4F supports comprehensive WEB-based management and a wide range of network protocols and functions, including MW-Ring, ERPS, STP/RSTP, MRP, VLAN, SVL, LACP, LLDP, SNMP v1/v2c/v3, RMON, QoS, 802.1X authentication, TACACS+ client, IGMP Snooping, GMRP, ACL, WEB/TELNET/SSH access control, static link aggregation, port mirroring, static MAC address binding, network diagnostics, loopback detection, link diagnostics, Email logging, alarms, SNTP client, system logs, and online system upgrades. These capabilities enhance network performance, reliability, and security to meet the demands of complex industrial networking.

Tested for functionality, extreme temperatures, safety, and EMC compliance, CISCOM6220-4F is ideal for applications in industrial automation, integrated energy, smart cities, intelligent transportation, and smart factories.

Product Features

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, with broadcast and multicast storm detection to prevent network storms
- Support static link aggregation and LACP dynamic aggregation to increase transmission bandwidth and improve link reliability
- Support port mirroring to capture ingress and egress data for network monitoring and fault management
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy segmentation of multiple broadcast domains, enhancing network security
- Support multicast protocols such as IGMP Snooping and GMRP to reduce multicast broadcast traffic and conserve network resources
- Support LLDP for neighbor device discovery, link status monitoring, and simplified topology management and fault location
- Support ERPS for multi-ring network protection, link backup, rapid convergence, and enhanced network stability
- Support RSTP, compatible with STP, to eliminate network loops and improve network reliability
- Support MRP to enhance network reliability with reconfiguration time ≤ 500 ms
- Support WEB management with HTTP/HTTPS access control and login IP address restrictions
- Support SNMP v1/v2c/v3 centralized management and TRAP messages, including standard and private TRAPs
- Support RMON for remote monitoring and management of various frame types, including statistics and alarms for use in network management systems
- Support QoS to prioritize voice, video, and critical data transmission, alleviating network congestion
- Support ACL with customizable frame filtering and rate limiting rules for specified packets
- Support 802.1X port authentication for user identity verification, with local and RADIUS-based authentication
- Support TACACS+ client for user authentication, authorization, and accounting, preventing unauthorized logins and enhancing system security
- Support loopback detection to prevent network loops that could trigger network storms
- Support system logging with recording, downloading, categorization, and display via WEB interface, log server, or console

Technical Specifications

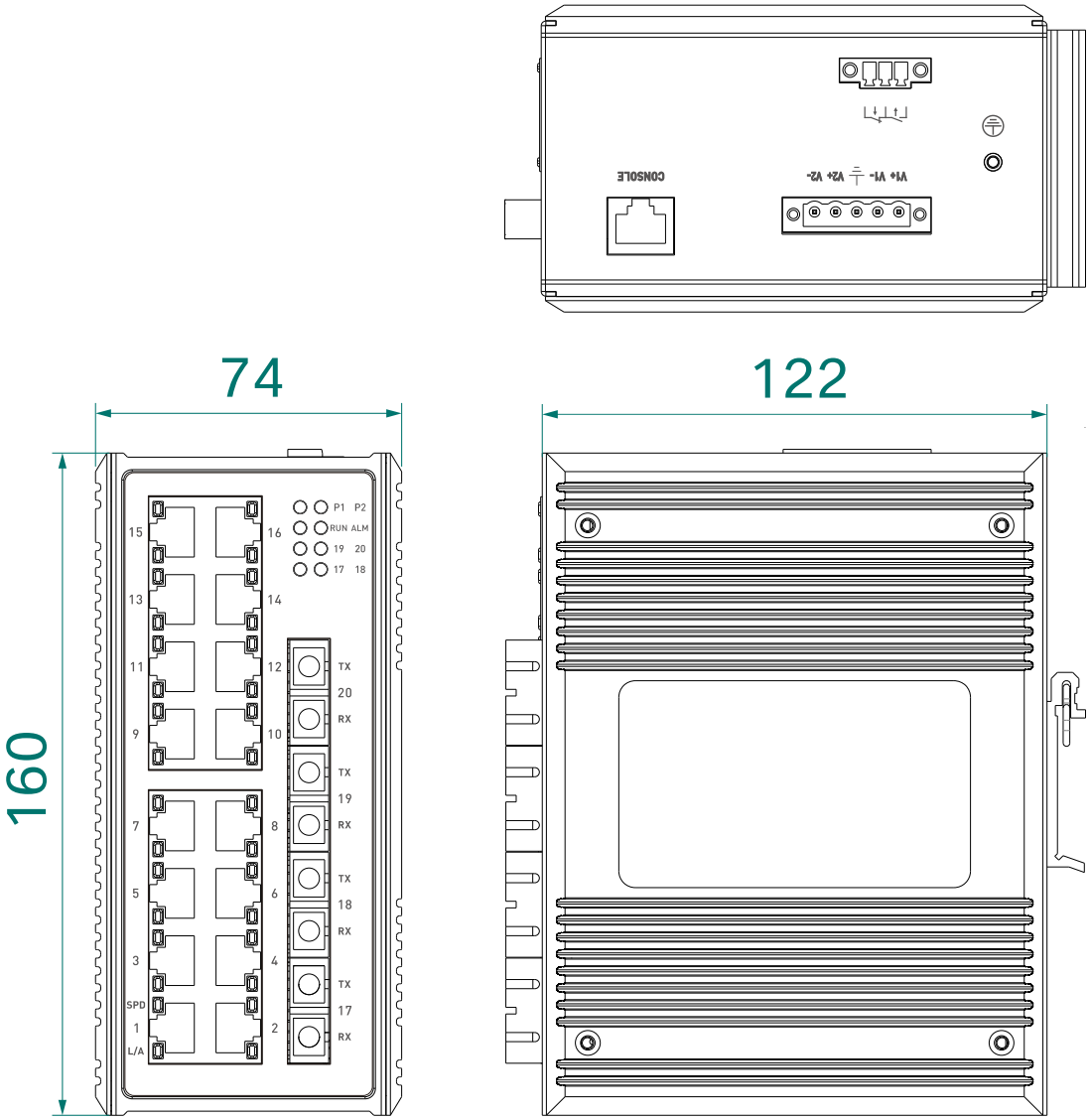
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN, port isolation, and SVL configuration Support MAC address aging and learning limits, static MAC address binding, and source MAC address filtering
Redundancy	Support MW-Ring proprietary ring network technology Support ERPS Support STP/RSTP Support MRP
Broadcast	Support IGMP Snooping Support static multicast MAC address binding Support unknown multicast filtering Support GMRP
Security Management	Support WEB, TELNET, and SSH access control Support ACL, 802.1X port authentication, and TACACS+ client Support loopback detection, network storm/ring status/port down alarms, and email logs
Management and Maintenance	Support QoS, SNMP v1/v2c/v3, SNMP v1/v2c/v3 TRAP, RMON, and LLDP Support port mirroring, Ping, and link diagnosis Support user permission management, system logs, SNTP client, and daylight saving time Support online reboot, factory reset, system upgrade, and configuration file upload/download Support MW-NMPv2, MixView, and MaxView management
Switching	

Processing Type	Store-and-forward
Backplane Bandwidth	12.8Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
100M Fiber Port	4 x 100 Base-FX SFP ports, SC/FC/ST, the transmission distance supports 1310nm multimode dual-fiber (2km) or 1310nm single-mode duplex fiber (20/40/60/80/100km optional)
100M Copper Port	16 x 10/100 Base-T(X) auto-sensing RJ45 port, full/half duplex, auto MDI/MDI-X
Relay	1 x relay alarm output, 3-pin 3.81mm terminal block
CONSOLE	1 x RJ45 CONSOLE port of RS232 signal for device debugging and command line configuration
Status LEDs	Power indicator, operation indicator, alarm indicator, SFP interface indicator, port rate and connection/active status indicator
Power	
Power Input	DC Model: DC9~60V, support redundant power inputs, reverse polarity protection AC Model: AC85~264V / DC110~370V
Power Consumption	< 12W@DC24V (full load)
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimensions	160×74×122 mm (DIN rail mounting clip and connectors excluded)
Installations	35 mm standard DIN-rail installation

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 ports support 6kV surge protection IEC 61000-4-4 (EFT): Level 4

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Fiber Port	100M Copper Port	Input Voltage
CISCOM6220-4F(M/S)	4	16	DC9~60V Redundant Power Inputs
CISCOM6220-4F(M/S)-AD220	4	16	AC85~264V / DC110~370V Power Input

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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