CISCOM8220GX-4XGF-8GF-8GT

20-Port 10G Layer 3 Managed DIN Rail Industrial Ethernet Switch



- 4×10G SFP+ ports, 8×1G SFP ports, 8×1G RJ45 copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), EAPS, ERPS, STP/RSTP, MSTP, MRP for network redundancy
- Support static routing, RIPv1/v2, OSPF dynamic routing protocol, realize routing and message forwarding
- Support VRRP to combine multiple routing devices into a virtual router for redundancy backup
- Support AC85~264V/DC110~370V power input, or DC12~48V redundant power inputs
- High-strength aluminum alloy shell, IP40-rated housing protection, fanless heat dissipation
- -40 ℃~+75 ℃ working temperature range

Product Description

The CISCOM8220GX-4XGF-8GF-8GT is a 20-port Layer 3 10G managed DIN-rail industrial Ethernet switch with 4 × 10G SFP+ ports, 8 × 1G SFP ports, and 8 × 1G RJ45 ports. It adopts a store-and-forward mechanism, delivers high bandwidth performance, and automatically detects and corrects packet errors to ensure stable and efficient gigabit networking. Built with industrial-grade components and a high-strength aluminum alloy housing, it supports 35mm DIN-rail installation, operates from -40°C to +75°C, and offers IP40-rated protection for reliable operation in harsh environments.

This 10G managed switch supports multiple management methods, including CLI via CONSOLE or TELNET/SSH, WEB management via HTTP/HTTPS, and access the device MIB via SNMP. It supports a wide range of network protocols, including RIP, OSPF, VRRP, MW-Ring, EAPS, ERPS, STP/RSTP/MSTP, MRP, VLAN, GVRP, QoS, LACP, PIM, IGMP, IGMP Snooping, GMRP, LLDP, RMON, 802.1X, ACL, DHCP Server/Relay/Security/Snooping, NTP client/server, port mirroring, DDM, Ping, and Tracert., meeting the needs of complex and secure industrial networks.

Tested for functionality, temperature, safety, and EMC, this industrial Ethernet switch is ideal for industrial automation, energy, smart cities, transportation, mining, and factory applications.

Product Features

- Support storm suppression of broadcast, multicast and unknown unicast, support broadcast and multicast packet storm detection to prevent broadcast storm
- Support static LACP, and dynamic LACP aggregations to increase transmission bandwidth and improve link reliability
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain
- Support VLAN division based on port, MAC, protocol, IP subnetwork, etc., which can be applied to different environments
- Support GVRP protocol, realize dynamic distribution, registration and propagation of VLAN attributes, and maintain dynamic VLAN
- Support MAC address aging and learning limits, static MAC forwarding/filtering, and MAC binding for secure access control
- Support PIM, IGMP, IGMP Snooping, and GMRP to optimize multicast traffic and save network resources
- Support the LLDP to obtain LLDP neighbor information and monitor link status, facilitating topology management and fault location
- Support STP, RSTP, MSTP spanning tree protocol, can eliminate network loop
- Support ERPS Ethernet multi-ring protection technology, providing multi-ring networking, link backup, rapid convergence, and improved network stability
- Support EAPS loop protection protocol and MW-Ring proprietary ring network protocol
- Support loopback detection to prevent network loops and network storms
- Support static routing and dynamic routing protocols RIPv1/v2 and OSPF
- Support SNMPv1/v2c/v3, through the MIB network management system can be information query, information modification and troubleshooting, to achieve centralized management
- Support RMON providing statistics and alarms for various data frame types, enabling remote monitoring and management by network management systems
- Support QoS service quality, give priority to voice, video and important data in network devices, and solve network congestion
- Support ACL access control list, filtering TCP/UDP /ICMP/IGMP messages based on source/destination IP and MAC address
- Support 802.1X port authentication, authentication and access control for access users
- Support DHCP server for centralized dynamic IP address management and configuration
- Support redundant power inputs with power failure relay alarm and host alarm, as well as port disconnection host alarm
- SFP/SFP+ ports support DDM to view optical module information, monitor real-time parameters including temperature, voltage, current, transmit optical power, and receive optical power, and provide alarms for abnormal DDM parameters

Technical Specifications

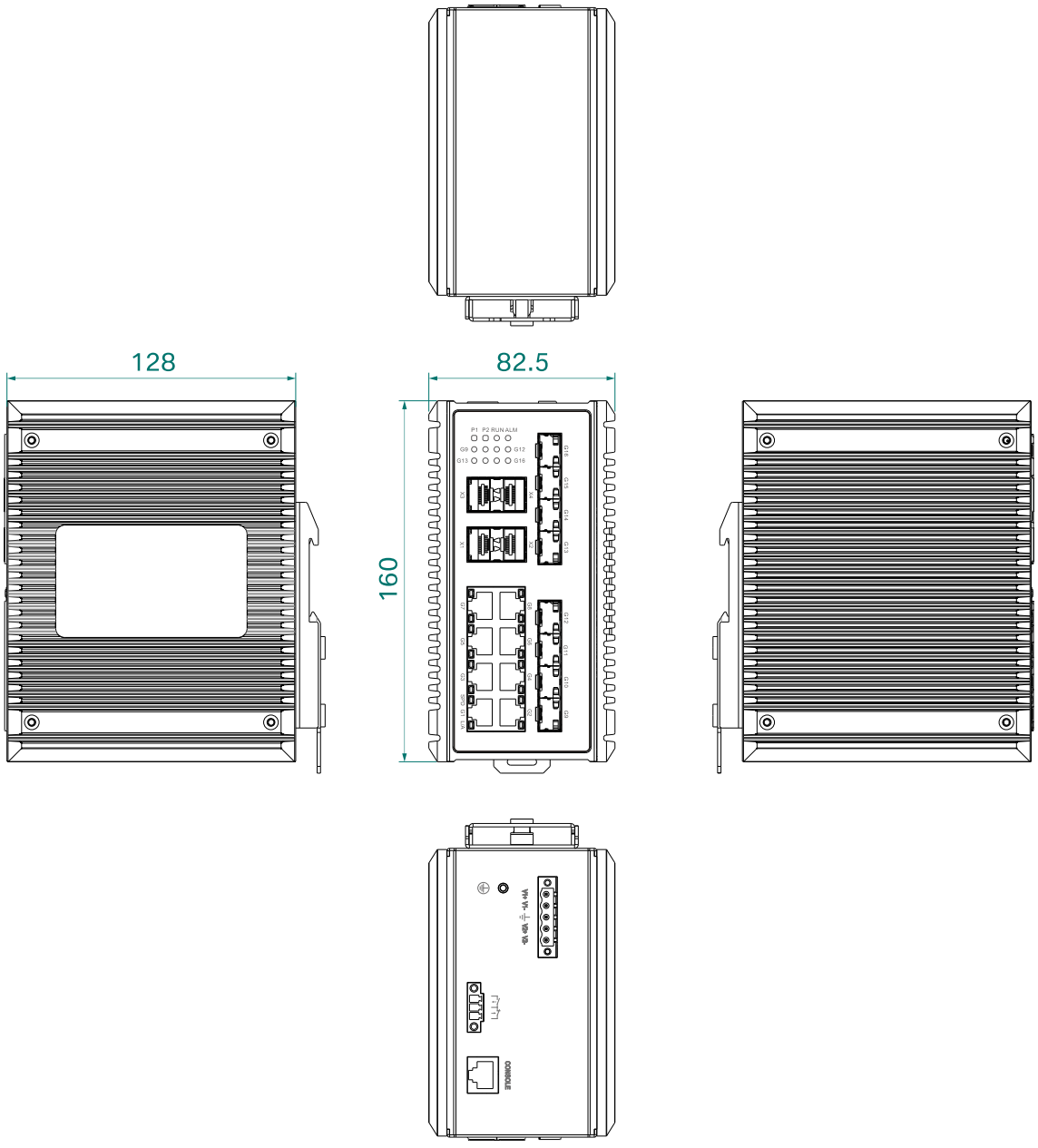
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN, VLAN based on port/MAC/protocol/subnet, GVRP, and port isolation Support MAC address aging and learning limits, static MAC address binding, and source MAC address filtering
Redundancy	Support MW-Ring proprietary ring network technology Support EAPS, ERPS Support STP/RSTP/MSTP Support MRP
Broadcast	Support IGMP Snooping Support static multicast, and GMRP Support IGMPv1/v2/v3 Support PIM-DM, PIM-SM
Routing	Support static routing Support RIPv1/v2, OSPF dynamic routing support VRRP
Security Management	Support HTTP, HTTPS, TELNET, and SSH access mode and login control Support ACL, data filtering of L2-L4 layer Support 802.1× port authentication and MAC address authentication Support loopback detection
Management and Maintenance	Support DHCP Server/Security/Relay/Snooping Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c Trap, LLDP, RMON Support port mirroring, DDM, Ping, Tracert Support user permission management, system logs, local time setting synchronization, and NTP client/server

	Support online restart, factory reset, system upgrade, configuration file upload / download Support MW-NMPv2, MixView, and MaxView management
Switching	
Processing Type	Store-and-forward
Backplane Bandwidth	128Gbps
Buffer Size	12Mbit
MAC Table Size	16K
LPM Routing Entries	512
Interface	
10G Fiber Port	4 x 10G Base-R SFP+ ports, compatible with 1000 Base-X/1000 Base-T Recommended our SFP module to use together
1G Fiber Port	8 x 1G Base-X SFP ports, compatible with 100 Base-FX/1000 Base-T Recommended our SFP module to use together
1G Copper Port	8 x 10/100/1000 Base-T(X) auto-sensing Gigabit RJ45 port, support 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 LED	Power indicator, operation indicator, alarm indicator, SFP interface indicator, port rate and connection/active status indicator
Power	
Power Input	DC Model: DC12~48V, redundant power inputs, anti-reverse connection AC Model: AC85~264V / DC110~370V, built-in 3A overcurrent

	protection
Power Consumption	< 22W@DC12V (full load) < 22W@AC220V (full load)
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimensions	160×82.5×128 mm (DIN rail mounting clip and connectors excluded)
Installations	35 mm standard DIN-rail installation
IP Code	IP40
Weight	About 1.5kg
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 (contact discharge±8kV, air discharge±15kV) IEC 61000-4-5 (Surge): Level 3 (power: common mode ±2kV, differential mode ±2kV Ethernet port: common mode ±6kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (power: ±4kV, Ethernet port: ±2kV)

Dimensions

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G Fiber Port	1G Copper Port	Input Voltage
CISCOM8220GX-4XGF-8GF-8GT	4	8	8	DC12~48V redundant power inputs
CISCOM8220GX-4XGF-8GF-8GT-AD220	4	8	8	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

Copyright © Come-Star All rights reserved