

CISCOM8220GX-4XGF-16GT

20-Port Gigabit DIN Rail Layer 3 Industrial Ethernet Switch



- 4x10G SFP+ ports and 16x10/100/1000Base-T(X) RJ45 ports
- MW-Ring (recovery time < 20 ms @ 200 switches), EAPS, ERPS, STP/RSTP, MSTP, MRP for network redundancy
- Support static routing, RIP v1/v2, RIPng, OSPF, OSPFv3 dynamic routing protocol
- Support VRRP virtual routing redundancy protocol to form multiple routing devices into a virtual router
- Multicast protocols such as PIM, IGMP, MLD Snooping, IGMP Snooping, and GMRP reduce multicast flooding
- Loopback detection, BFD, DDM, Ping, Tracert, line diagnostics
- Support single AC85~264V/DC110~370V power supply, or dual DC12~48V power inputs
- High strength aluminum alloy shell, IP40 protection
- -40 to +75°C operating temperature range

Product Description

The CISCOM8220GX-4XGF-16GT is a high-performance Layer 3 industrial Ethernet switch designed for bandwidth-intensive and mission-critical industrial networks. It is equipped with 4 × 10G SFP+ ports and 16 × 10/100/1000Base-T(X) Ethernet ports, enabling seamless aggregation of 1G and 10G links. Utilizing a store-and-forward switching mechanism, the switch automatically detects and filters packet errors to reduce transmission failures, ensuring stable, reliable, and efficient data delivery for 10G industrial networking applications. Built with industrial-grade components and manufactured under strict quality control, the device supports 35 mm DIN-rail mounting and features a high-strength aluminum alloy enclosure for long-term durability. With an operating temperature range of -40 to +75 °C and a robust industrial protection design, it is well suited for deployment in harsh environments such as factories, substations, transportation systems, and outdoor cabinets.

Compliant with mainstream industrial communication standards, the CISCOM8220GX-4XGF-16GT addresses key requirements for real-time communication, network reliability, and security in complex

industrial networks. It offers flexible management options, including command-line access via the CONSOLE port or TELNET/SSH, web-based management through HTTP/HTTPS, and SNMP for centralized network monitoring. The switch supports a comprehensive set of Layer 2 and Layer 3 protocols and functions, including dynamic routing, redundancy, ring protection, multicast management, VLAN segmentation, quality of service, access control, authentication, time synchronization, and network diagnostics, enabling secure and efficient network operation across diverse applications. Each unit undergoes rigorous functional, temperature, safety, and EMC testing to ensure reliable performance and compliance with the demanding requirements of industrial networking environments.

Product Features

- Support configuration of IPv4/IPv6 static routes and dynamic routing protocols (RIPv1/v2, RIPv6, OSPF, OSPFv3) to enable route selection and packet forwarding
- Support Virtual Router Redundancy Protocol (VRRP), enabling multiple routing devices to form a virtual router and achieve routing redundancy and backup
- Support 802.1Q VLAN and GVRP, and enables flexible broadcast domain segmentation based on port, MAC, protocol, or IP subnet to enhance security
- Support static aggregation and LACP dynamic aggregation, increasing bandwidth and link redundancy
- Support Quality of Service (QoS) and prioritized transmission to alleviate network congestion
- Support Multicast protocols such as PIM, IGMP, MLD Snooping, IGMP Snooping, and GMRP reduce multicast flooding
- Support static ARP, as well as MAC address binding, filtering, aging, and learning limits
- Support LLDP, SNMP, and RMON to enable remote topology and network management
- Support ACL, 802.1X, TACACS+ to enhance access security
- Support DHCP Server/Relay/Security/Snooping, which enables IP address allocation and cross-subnet forwarding while ensuring the security of the DHCP process

Technical Specifications

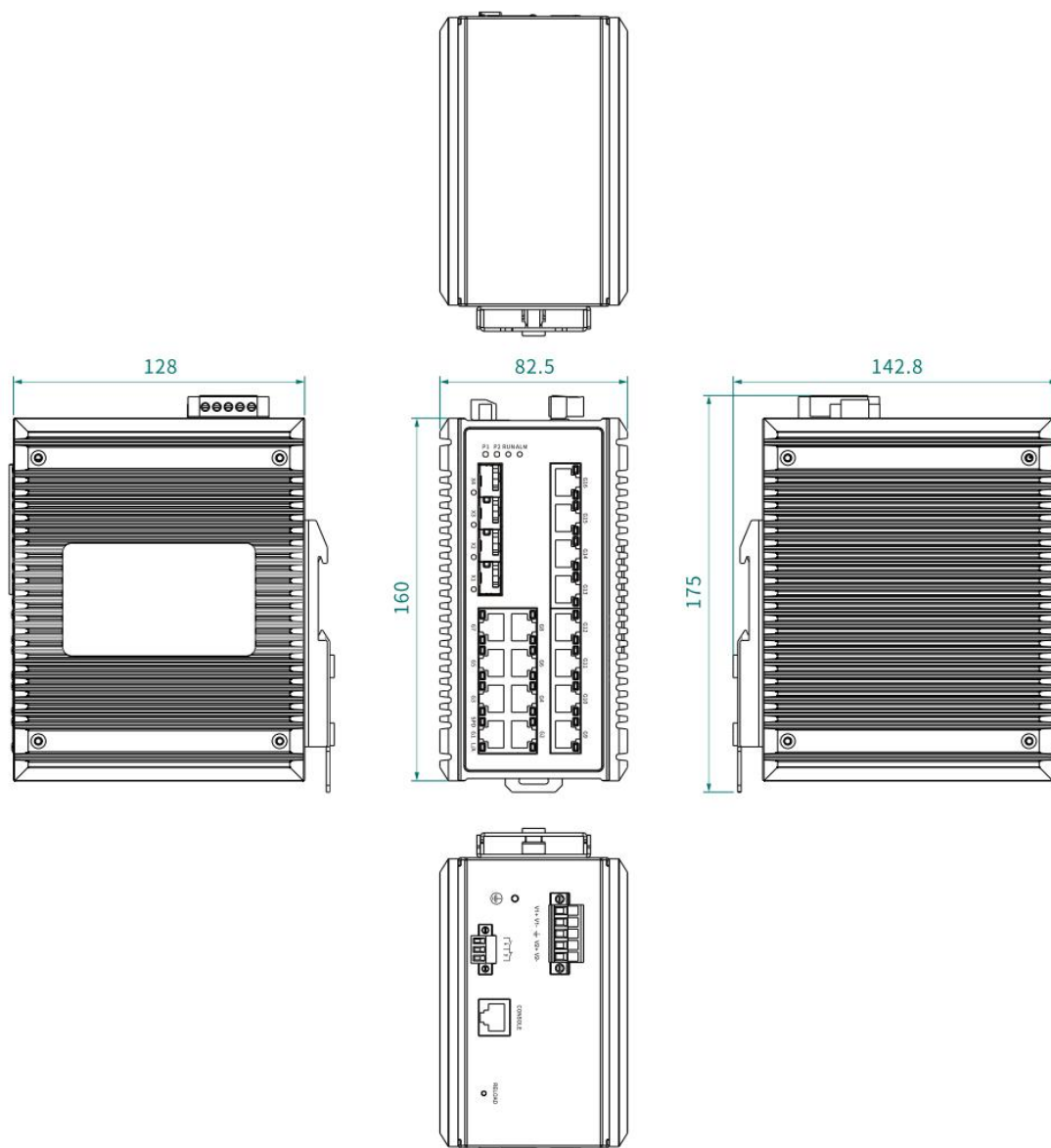
Software	
IEEE Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3ae, IEEE 802.3x, IEEE 802.1D/w/s, IEEE 802.1p, IEEE 802.1X, IEEE 802.1Q, IEEE 802.3ad, IEEE 802.1AB
Switching	
Processing Type	Store and forward
Backplane Bandwidth	128Gbps
Buffer Size	12Mbit
Jumbo Frame	12KB
MAC Table Size	16K
LPM Routing Entry	768
Interface	

10G Fiber Port	4x10GBase-R SFP+ ports, compatible with 1000Base-X/100Base-FX (SFP module is supplied separately)	
1G Copper Port	16x10/100/1000Base-T (X) auto-sensing RJ45 port, full / half-duplex, auto MDI/MDI-X connection	
Relay	1 relay alarm output, 3-pin 5.08mm terminal block	
CONSOLE	1 RJ45 CONSOLE port of RS232 signal for equipment debugging and command line configuration	
Button	One-click restart or factory reset	
Status LED	Power indicator, operation indicator, alarm indicator, SFP interface indicator, port rate and connection/active status indicator	
Power	CISCOM8220GX-4XGF-16GT	CISCOM8220GX-4XGF-16GT-AD220
Power Input	DC12~48V dual power inputs	AC85~264V/DC110~370V
Power Consumption	<18W@DC12V(full load)	<18W@AC220V(full load)
Connection	5-pin 5.08mm terminal block	5-pin 5.08mm terminal block,3-pin for power
Protection	Anti-reverse connection	Built-in 3A overcurrent protection
Physical Characteristics		
Dimension	160×82.5×128mm (exclude DIN rail mounting clip)	
Installation	35mm standard DIN-rail type installation	
IP Code	IP40	
Weight	About 1.56kg	
Working Environment		
Operating Temp	-40 to +75°C	
Storage Temp	-40 to +85°C	
Ambient Humidity	5%~95% (No condensation)	
Industry Standard		

EMC	IEC 61000-4-2(ESD): Level 4 (contact discharge$\pm 8\text{kV}$, air discharge$\pm 15\text{kV}$) IEC 61000-4-5(Surge): Level 4 (power: common mode$\pm 4\text{kV}$, differential mode$\pm 2\text{kV}$ network port: common mode$\pm 6\text{kV}$, differential mode$\pm 2\text{kV}$) IEC 61000-4-4(EFT): Level 4 (power: $\pm 4\text{kV}$, copper port: $\pm 2\text{kV}$) *AC models feature Level 3 surge protection ($\pm 2\text{kV}$ common-mode voltage), while the other meets Level 4 standards.
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Dimensions

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G Copper Port	Input Voltage
CISCOM8220GX-4XGF-16GT	4	16	Dual DC12~48V inputs
CISCOM8220GX-4XGF-16GT-AD220	4	16	AC85~264V/ DC110~370V



Contact Us

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