

CISCOM7028G-12GF-8GC-8GT

28-Port Rack Mount Layer 2 Managed Industrial Ethernet Switch



- 12*1G SFP ports, 8*1G combo ports and 8*1G copper ports
- Support DDM digital diagnosis and monitoring, can detect the temperature, voltage, current, transmitting and receiving optical power of the DDM optical module
- Support ring network redundancy protocols such as CS-Ring, ERPSv1/v2, STP/RSTP to improve network reliability
- Fast Ring Redundancy (CS-Ring) <20ms enhances the reliability of system communication
- Support single/dual AC85~264V/DC110~370V power input, support dual power redundancy
- High strength aluminum alloy shell, IP40 protection level, fanless heat dissipation, can reliably work in harsh industrial environments of -40 °C~+75 °C

Product Description

CISCOM7028G-12GF-8GC-8GT layer 2 managed rack mount industrial Ethernet switch supports 12*Gigabit SFP ports, 8*combo ports and 8*1G copper ports. It adopts a storage and forwarding mechanism and has strong bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures. The product uses industrial grade components, combined with high standard system design and production control. It adopts high strength durable aluminum alloy shell, fanless design for efficient heat dissipation, -40°C ~ + 75°C wide temperature work.

CISCOM7028G-12GF-8GC-8GT can be managed through WEB or SNMP network management, It also provides a series of common advanced management functions, including CS-Ring, ERPS, STP / RSTP, VLAN, LLDP, RMON, ACL, QoS service quality, 802.1X, IGMP Snooping, rate control, port aggregation, port mirroring, static MAC address forwarding table, network diagnosis, loopback detection, fault alarm via Email/Relay and firCSare online upgrade. In terms of installation, you can flexibly choose the rack mount type or the desktop mount type. The products are widely used in comprehensive energy, smart city, rail transit, intelligent transportation, smart factory, industrial automation and other fields.

Product Features

- Support broadcast, unknown multicast and unknown unicast rate limit to prevent broadcast storm
- Support static link aggregation, which can increase transmission bandwidth and improve link reliability
- Support port mirroring and collect data from egress and ingress for network detection and fault management
- Support port statistics including data frames sent and received to realize the monitoring of port traffic
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain, enhance the security of the network
- Support the MAC address table and the aging time limit, and the static unicast/multicast MAC address is bound with the interface, to ensure the use of legitimate users
- Support IGMP Snooping, establish layer 2 multicast forwarding table, reduce the broadcast of multicast data in the network, save network resources
- Support LLDP link layer discovery protocol, obtain LLDP neighbor device information, conduct link status monitoring, facilitate topology management and fault location
- Support ERPSv1/v2 Ethernet multi-ring protection technology, provide multi-ring networking, link backup, achieve fast convergence, improve network stability
- Support RSTP protocol, compatible with STP protocol, eliminate network loop, improve network reliability
- Support WEB control, HTTP, HTTPS protocol access control, login IP address restrictions
- Support TELNET and SSH access control, SSH can provide secure remote login to ensure data integrity and reliability
- Support SNMPv1/v2c/v3 and SNMPv1/v2c/v3 TRAP
- Support RMON remote network monitoring, make statistics and alarm of various types of data framesn, for remote monitoring and management of network management system
- Support QoS service quality, give priority to voice, video and important data in network devices, and solve network congestion
- Support ACL access control list, filter TCP/UDP messages based on source / destination IP and MAC address
- Support 802.1X port authentication, authenticates the access users, and provides local and RADIUS login authentication
- Support relay alarm mode, including network storm, power loss, port loss and other alarm information
- Support loopback detection to prevent the network from ring and causing a network storm
- Support system logging of WEB, LINK, CONFIG, AUTH, STORM, RING, SNMP, SYS, and support remote monitoring of log host and regular sending of log mail

Technical Specifications

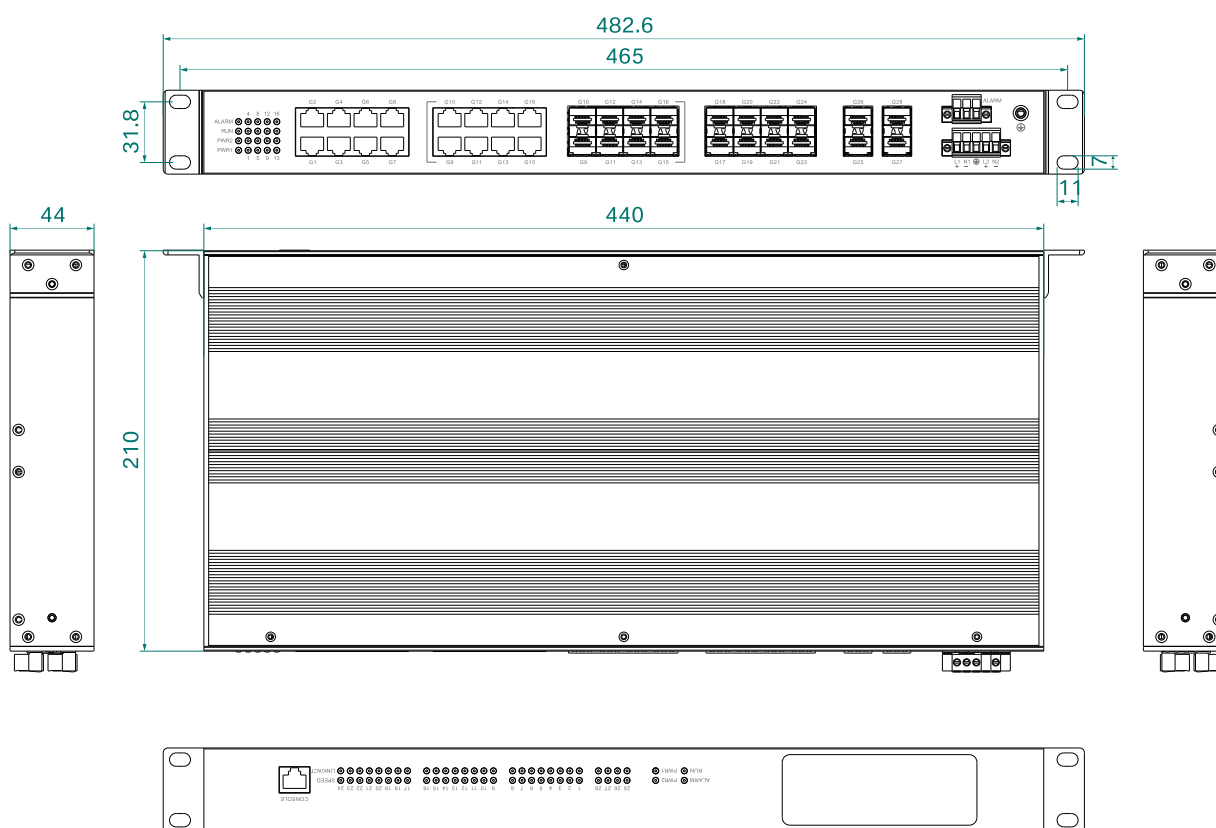
Software	
Switching	Support ports configuration, such as port rate, duplex mode, flow control, maximum transmission unit, etc.. Support 802.1Q VLAN, port isolation Support port speed limit, storm suppression, static port convergence, port statistics Support MAC address aging, static MAC address binding
Redundancy	Support CS-Ring v1/v2 private ring network technology Support ERPSv1/v2 Support RSTP, and compatible with STP
Broadcast	Support IGMP Snooping Static multicast MAC address binding is supported
Security Management	Support WEB, TELNET, and SSH control Support ACL, data filtering of L2-L4 layer Support 802.1X port authentication Support the relay alarm, Email log Support ring circuit detection
Management and Maintenance	Support QoS quality of service, 802.1P/DSCP/port priority mapping, absolute versus relative priority control Support SNMP v1/v2c/v3, SNMP Trap, RMON, LLDP Support port mirror image, DDM, Ping Support user rights management, system log, NTP client, daylight saving time Support online restart, restore factory settings, system upgrade, configuration file upload / download Support unified upper-level computer software management
Switch Capability	
Switching	Store and forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	

1G Fiber Port	12*1000Base-X Gigabit SFP ports
1G COMBO Port	8*1G combo port, support 10/100/1000Base-T (X) auto-sensing Gigabit RJ45 ports or 1000Base-X Gigabit SFP ports optional, the port support full/half duplex, auto MDI/MDI-X connection
1G Copper Port	8*10/100/1000Base-T (X) auto-sensing Gigabit RJ45 ports for 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
Status LED	Power indicator, operation indicator, alarm indicator, interface rate and connection/active status indicator
Power Supply	
Power Input	AC85~264V/DC110~370V, single/dual power supply is optional
Power Consumption	<35W@AC220V (full load)
Connection	5-pin 5.08mm terminal block
Protection	Over current protection
Physical Characteristics	
Dimension	482.6×44×210 mm (Including mounting brackets)
Installation	Standard 19-inch 1U rack mount
IP Code	IP40
Weight	About 3.5kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
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: $\pm 2\text{kV}$)
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Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port	1G Combo Port	1G Copper Port	Input Voltage
CISCOM7028G-12GF-8GC-8GT-AD220	12	8	8	Single AC85~264V/ DC110~370V
CISCOM7028G-12GF-8GC-8GT-2AD220	12	8	8	Dual AC85~264V/ DC110~370V



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