

COM7028G-4GF-8GC-16GT

28-port Rack-Mount Layer 2 Managed Industrial Ethernet Switch



- 4 x Gigabit SFP ports, 8 x Gigabit combo ports and 16x10/100/1000Base-T(X) ports (RJ45 connector)
- Fast Ring Redundancy (MW-Ring) <20ms enhances the reliability of system communication
- Support single/dual DC24V, DC48V or AD220 power input, support dual power redundancy
- High strength aluminum alloy shell, IP40 protection level, fan-less heat dissipation
- Reliably work in harsh industrial environments of -40 °C ~+75 °C

Product Description

CISCO7028G-12GF-8GC-8GT layer 2 managed rack mount industrial Ethernet switch supports 4 x Gigabit SFP ports, 8 x Gigabit combo ports, and 16 x 10/100/1000Base-T(X) ports. It adopts a storage and forwarding mechanism and has strong bandwidth processing capabilities, automatically troubleshooting data packet errors and reducing transmission failures. The product uses industrial-grade components combined with high-standard system design and production control. It adopts a high-strength, durable aluminum alloy shell, fan-less design for efficient heat dissipation, and -40°C ~ + 75°C wide temperature work

CISCO7028G-12GF-8GC-8GT can be managed through WEB or SNMP network management, it also provides a series of common advanced management functions, including MW-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, loop-back detection, fault alarm via Email/Relay and firmware 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 ERPS 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 SNMPv1/v2c/v3 and SNMPv1/v2c/v3 TRAP
- Support QoS service quality, give priority to voice, video and important data in network devices, and solve network congestion
- 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 loop-back 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	<p>Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics</p> <p>Support 802. 1Q VLAN, port isolation</p> <p>Support port speed limit, storm suppression, static port convergence, port statistics, LACP</p> <p>Support MAC address aging, static MAC address binding</p>
Redundancy	<p>Support MW-Ring v1 / v2 private ring network technology</p> <p>Support ERPS</p> <p>Support RSTP, and compatible with STP</p>
Broadcast	<p>Support IGMP Snooping</p> <p>Static multicast MAC address binding is supported</p>
Security Management	<p>Support WEB, TELNET, and SSH control</p> <p>Support ACL, 802. 1X port authentication</p> <p>Support the relay alarm, Email log</p> <p>Support Loop Back detection</p>
Management and Maintenance	<p>Support QoS quality of service</p> <p>Support SNMP v1 / v2c / v3, SNMPv1 / v2c / v3Trap, RMON, LLDP Support port mirror image, DDM, Ping</p> <p>Support User permission management, system log, NTP client, daylight saving time</p> <p>Support online restart, factory reset, system upgrade, configuration file upload / download</p> <p>Support unified upper-level computer software management</p>
Switch Capability	
Switching	Store and forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	

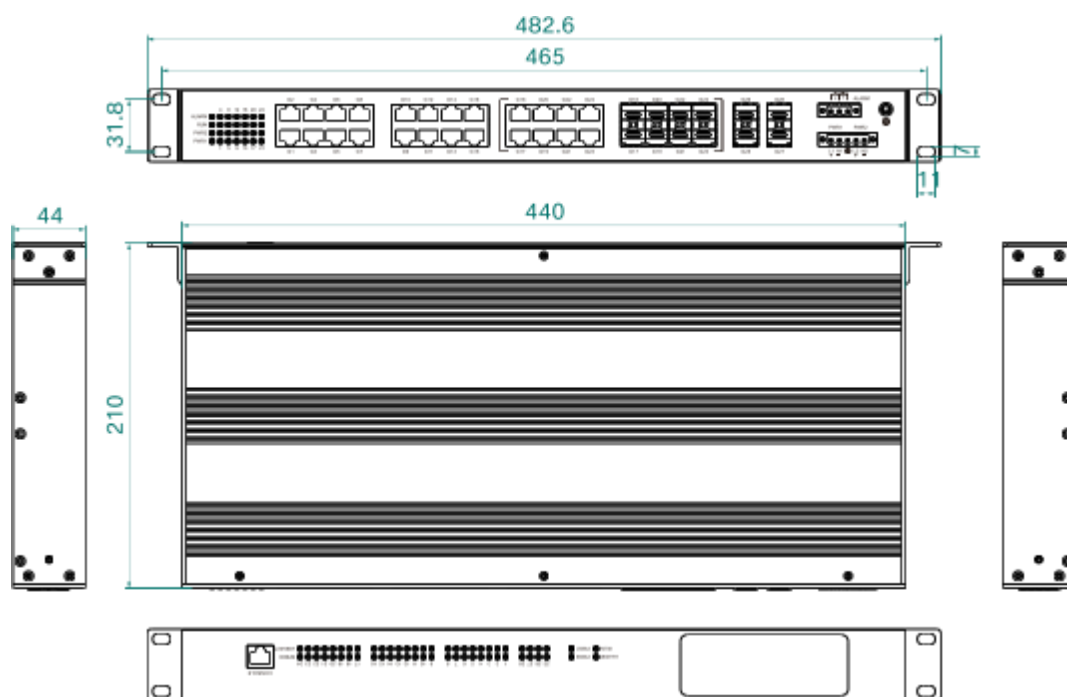
1G Fiber Port	4 x 1000Base-X Gigabit SFP ports 100Base-FX compatible
1G Combo Port	8 x 1G combo port, support 10/100/1000Base-T (X) auto-sensing Gigabit RJ45 ports or 1000Base-X Gigabit SFP ports optional, the port support full/half duplex, auto MDI / MDI-X connection
1G Copper Port	16 x 10/100/1000Base-T (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	DC model: DC18V~36V or DC36V~72V are optional, anti-reverse connection, support single/dual power supply optional AC model: AC85V~264V / DC110V~370V, support single/dual power supply optional
Power Consumption	<28W@DC24V, <27W@DC48V, <30W@AC220V
Connection	5-pin 5.08mm terminal block
Protection	Overcurrent 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°C~+75°C
Storage Temp	-40°C~+85°C
Ambient Humidity	5%~95% (No condensation)

Industry Standard

EMC	IEC 61000-4-2(ESD): Level
	IEC 61000-4-5(Surge): Level 4
	※Network port supports 6kV lightning protection
	IEC 61000-4-4(EFT): Level 4

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port	1G Combo Port	1G Copper Port	Input Voltage
CISCOM7028G- 4GF-8GC-16GT- DC24	4	8	16	DC18V~36V (Dual power supply optional)
CISCOM7028G- 4GF-8GC-16GT- DC48	4	8	16	DC36V~72V (Dual power supply optional)
CISCOM7028G- 4GF-8GC-16GT- AD220	4	8	16	AC85V~264V/DC110V~370 V



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