

CISCO M7028GX-4XGF-16GF-8GC

28-Port Layer 2 10G Managed Rack Mount Industrial Ethernet Switch



- Support 4 × 10G SFP+ ports and 16 × 1G SFP ports, 8×1G fiber/copper combo ports
- MW-Ring (recovery time < 20 ms @ 200 switches), EAPS, ERPS, STP/RSTP, MSTP, MRP for network redundancy
- Single/dual DC24V/DC48V/AD220V power inputs, support redundant power inputs
- High-strength aluminum alloy shell, IP40-rated housing protection, fanless design
- -40°C~+70°C operating temperature range

Product Description

CISCO M7028GX-4XGF-16GF-8GC is a 28-port Layer 2 10G managed rack-mount industrial Ethernet switch with 4 × 10G SFP+ ports, 16 × 1G SFP ports, and 8 × 1G fiber/copper combo ports. It employs a store-and-forward mechanism, delivering high bandwidth performance and automatically detecting and correcting packet errors to minimize transmission faults, thereby ensuring stable, reliable, and efficient 10G networking.

Built with industrial-grade components and manufactured to high standards, it features a standard 19-inch 1U rackmount form factor, high-strength aluminum alloy housing, fanless heat dissipation, and an operating temperature range of -40°C to +70°C. Its robust industrial protection design ensures reliable operation in harsh environments.

This Layer 2 switch complies with major industrial communication standards, meeting requirements for real-time communication and network security. It offers multiple management methods, including CLI via CONSOLE or TELNET/SSH, WEB management via HTTP/HTTPS, and SNMP access to the device MIB. The managed switch supports network protocols and industry standards, including MW-Ring, EAPS, ERPS, STP/RSTP/MSTP, MRP, VLAN, GVRP, QoS, LACP, IGMP Snooping, GMRP, LLDP, RMON, 802.1X, ACL, NTP client/server, port mirroring, Ping, and Tracert, enhancing network performance, reliability, and security for complex networking scenarios.

Tested for functionality, temperature, safety, and EMC compliance, CISCOM7028GX-4XGF-16GF-8GC is ideal for applications in industrial automation, energy, smart cities, transportation, mining, and smart factories.

Product Features

- Support storm suppression for broadcast, multicast, and unknown unicast packets, with broadcast and multicast storm detection to prevent network storms.
- Support static LACP and dynamic LACP aggregations to increase transmission bandwidth and improve link reliability.
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces to divide multiple broadcast domains and enhance network security.
- Support VLAN configuration based on port, MAC, protocol, and IP subnet to adapt to different network environments.
- Support GVRP for dynamic distribution, registration, and propagation of VLAN attributes to maintain dynamic VLANs.
- Support MAC address aging and learning limits, static MAC forwarding and filtering, and MAC binding to ensure legitimate user access.
- Support IGMP Snooping and GMRP to reduce multicast broadcast and save network resources.
- Support LLDP to obtain neighbor information for link status monitoring, topology management, and fault location.
- Support MSTP rapid spanning tree protocol, compatible with RSTP and STP, to eliminate network loops and improve reliability.
- Support ERPS for multi-ring networking, link backup, fast convergence, and improved network stability.
- Support EAPS and MW-Ring proprietary ring network protocols to enhance system communication reliability.
- Support MRP for improved network reliability, with reconfiguration time ≤ 500 ms.
- Support loopback detection to prevent network loops that cause storms.
- Support SNMPv1/v2c/v3 for query, modification, and troubleshooting via MIB-based network management, enabling centralized management.
- Support RMON to collect statistics and generate alarms for various frame types, enabling remote monitoring and management.
- Support QoS to prioritize voice, video, and critical data, alleviating network congestion.
- Support ACL to filter TCP, UDP, ICMP, and IGMP packets based on source/destination IP and MAC addresses.
- Support 802.1X port authentication to verify user identity and control access rights.
- Support redundant power inputs with power failure relay and host alarms, including port disconnection alarms.

Technical Specifications

Software Function	
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
Security Management	Support HTTP, HTTPS, TELNET, and SSH access mode and login control Support ACL, data filtering of L2-L4 layer Support 802.1X port authentication and MAC address authentication Support loopback detection
Management and Maintenance	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
Switch Capability	
Processing Type	Store-and-Forward

Backboard Bandwidth	128Gbps
Buffer Size	12Mbit
MAC Table Size	16K
Interface	
10G Fiber Port	4 x 10G Base-R SFP+ ports, compatible with 1000 Base-X Recommended our SFP module to use together
1G Fiber Port	16 x 1000 Base-X SFP ports, compatible with 100 Base-FX Recommended our SFP module to use together
1G Combo Port	8 x 10/100/1000 Base-T(X) auto-sensing RJ45 copper ports, full/half duplex, auto MDI /MDI-X, or 1000 Base-X SFP ports, compatible with 100 Base-FX Recommended our SFP module to use together
Relay	1 x relay alarm output, 3-pin 5.08 mm terminal block
Console	1× RJ45 CONSOLE port of RS232 signal for equipment 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: DC18~72V, single/dual power inputs optional, reverse polarity protection AC Model: AC85~264V / DC110~370V, single/dual power inputs optional
Power Consumption	< 40W@AC220V (full load)
Connection	5-pin 5.08mm terminal block
Physical Characteristics	

Dimensions	482.6×44×315 mm (Mounting brackets included, connectors excluded)
Installations	Standard 19-inch 1U rack mount
IP Code	IP40
Weight	About 4kg
Working Environment	
Operating Temp	-40°C~+70°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 ※The Ethernet port supports 6kV surge protection IEC 61000-4-4 (EFT): Level 4

Ordering Information

Standard Model	10G Fiber Port	1G Fiber Port	1G Combo Port	Input Voltage
CISCOM7028GX-4XGF- 16GF-8GC-DC24	4	16	8	DC18~72V Power Input
CISCOM7028GX-4XGF- 16GF-8GC-DC48	4	16	8	
CISCOM7028GX-4XGF- 16GF-8GC-AD220	4	16	8	AC85~264V/DC110~370 Power Input
CISCOM7028GX-4XGF- 16GF-8GC-2DC24	4	16	8	DC18~72V Redundant Power Inputs
CISCOM7028GX-4XGF- 16GF-8GC-2DC48	4	16	8	
CISCOM7028GX-4XGF- 16GF-8GC-2AD220	4	16	8	AC85~264V/DC110~370V Redundant Power Inputs



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