CISCOM7028GX-4XGF-8GC-16GT

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



- 4 × 10G SFP+ ports, 8 × 1G combo ports, 16 ×10/100/1000Base-T(X) RJ45 ports
- Support network redundancy protocols like MW-Ring, EAPS, ERPS, STP/RSTP/MSTP, MRP enhancing network reliability
- Fast ring network redundancy (MW-Ring) <20ms to enhance the reliability of system communication
- Support single or dual DC24, DC48 or AD220 power inputs options, and dual inputs support power redundancy
- High-strength aluminum alloy casing with IP40-rated housing protection and fanless design
- Wok in the temperature ranging from -40°C to +70°C

Product Description

The CISCOM7028GX-4XGF-8GC-16GT is a 28-port Layer 2 managed 10 Gigabit industrial Ethernet switch designed for rack-mount installation. It features 4×10G SFP+ ports, 8×gigabit combo ports, and 16×10/100/1000Base-T(X) ports, supporting a store-and-forward switching mechanism that delivers high bandwidth performance with automatic packet error detection and reduced transmission failures. Engineered to support 10G networking with stable and efficient data flow, it adopts industrial-grade components, a high-strength aluminum alloy housing, and fanless cooling for long-term durability. Its standard 19-inch 1U rack-mount design and wide operating temperature range from -40°C to +70°C ensure reliable operation in harsh environments, backed by a robust industrial-grade protection design.

As a Layer 2 switch, the CISCOM7028GX-4XGF-8GC-16GT complies with key industrial communication protocols and security standards to meet the demands of real-time and secure data transmission. It offers flexible management through CLI via console/TELNET/SSH, web interface via HTTP/HTTPS, and SNMP for MIB access. The switch supports an extensive set of protocols including MW-Ring, EAPS, ERPS, STP/RSTP/MSTP, MRP, VLAN, GVRP, QoS, LACP, IGMP Snooping, GMRP, LLDP, RMON, 802.1X, ACL, and NTP client/server, along with diagnostic features like port mirroring, Ping, and Tracert. Tested for performance under extreme conditions including high-temperature, safety, and EMC standards, this model is ideal for industrial automation, integrated energy systems, smart cities, intelligent transportation, smart mining, and factory environments requiring robust and secure network infrastructure.

Product Features

- Support storm suppression for broadcast, multicast, and unknown unicast packets, as well as broadcast and multicast packet storm detection to prevent network storms.
- Support static and dynamic link aggregation with LACP to increase transmission bandwidth, improve link reliability, and implement network load balancing.
- Support 802.1Q VLANs, providing access, trunk, and hybrid interfaces to divide multiple broadcast domains and enhance network security easily.
- Support VLAN division based on port, MAC address, protocol, and IP subnet, adapting to diverse network environments.
- Support GVRP for dynamic distribution, registration, and propagation of VLAN attributes, and maintenance of dynamic VLANs.
- Support MAC address aging and learning limits, static MAC address forwarding and filtering, and MAC address binding to ensure access to authorized users.
- Support multicast protocols such as IGMP Snooping and GMRP to reduce multicast data broadcasts and conserve network resources.
- Support LLDP to obtain LLDP neighbor information and monitor link status, facilitating topology management and troubleshooting.
- Support MSTP, compatible with RSTP/ STP eliminates network loops and improves network reliability.
- Support ERPS Ethernet Multi-Ring Protection (RRP) technology, providing multi-ring networking and link backup, enabling rapid convergence and improving network stability.
- Support EAPS and MW-Ring, enhancing system communication reliability.
- Support MRP media redundancy protocol, improving network reliability with reconfiguration time of ≤ 500ms.
- Support loopback detection to prevent loops and network storms.
- Support SNMPv1/v2c/v3, enabling centralized management through MIB network management systems for information query, modification, and troubleshooting.
- Support RMON remote network monitoring, generating statistics and alarms for various data frame types, enabling remote monitoring and management by network management systems.
- Support QoS, prioritizing voice, video, and critical data transmission within network devices to alleviate network congestion.
- Support ACL access control lists, filtering TCP/UDP/ICMP/IGMP packets based on source/destination IP and MAC addresses.
- Support 802.1X port authentication for user authentication and access control.
- Support dual power supply redundancy, relay alarms, and host computer alarms for power failures, as well as host computer alarms for port disconnections.

Technical Specifications

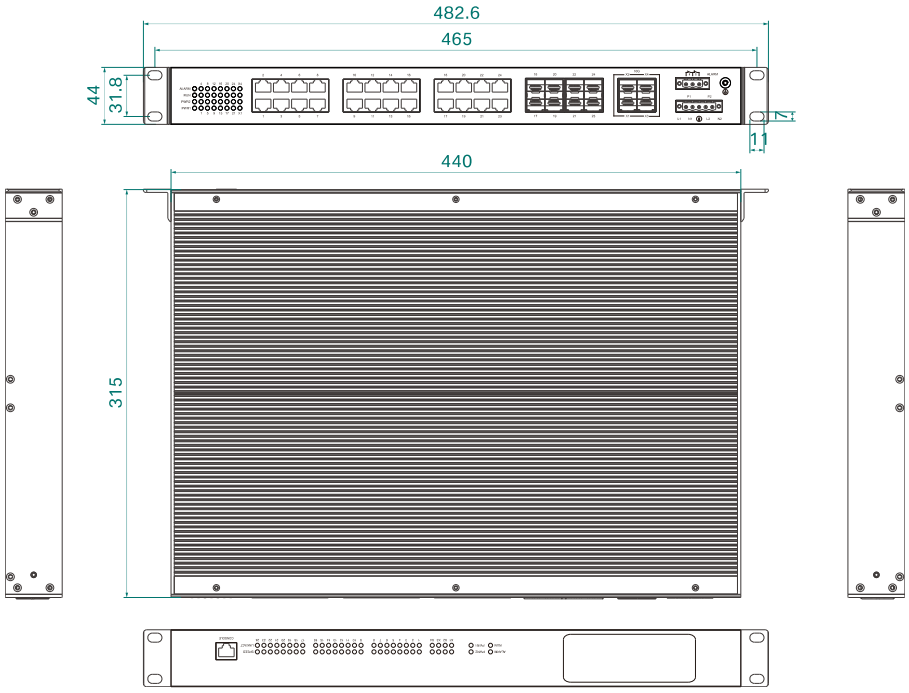
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics. Support 802.1Q VLAN, port/MAC/protocol/subnet-based VLANs, GVRP, and port isolation. Support MAC address aging and learning limits, static MAC address forwarding and filtering, and MAC address binding.
Redundancy	Support MW-Ring proprietary ring network technology Support EAPS and ERPS Support MSTP/RSTP/STP Support MRP
Multicast	Supports IGMP snooping Supports static multicast GMRP
Security Management	Support HTTP, HTTPS, TELNET, SSH access methods Support ACL for data filtering at L2-L4 layers Support 802.1X port authentication and MAC address authentication Support loopback detection and relay alarm
Management and Maintenance	Support QoS, SNMPv1/v2c/v3, SNMPv1/v2c TRAP, LLDP, and RMON. Support port mirroring, Ping, and Tracert. Support user management with different permissions, system logs, local time synchronization, and NTP client/server. Support online reboot, factory reset, system upgrades, and configuration file upload/download. Support MW-NMPv2 proprietary network management interface protocol and MixView and MaxView host management.
Switch Capability	
Processing Type	Store-and-Forward

Backplane Bandwidth	128Gbps
Buffer Size	12Mbit
MAC Table Size	16K
Interface	
10G Fiber Port	4 x 10GBase-R SFP+ ports, compatible with 1000Base-X; Recommended our SFP module to use together
1G Combo	8 x Gigabit combo ports, support 10/100/1000Base-T(X) auto-sensing RJ45 ports or 1000Base-X SFP ports optional. 10/100/1000Base-T(X) ports support full/half duplex and auto MDI/MDI-X Recommended our5 SFP module to use together
1G Copper Port	16 x 10/100/1000Base-T(X) auto-sensing RJ45 ports, support full/half duplex and auto MDI/MDI-X
Relay	1 relay alarm output with 3-pin connectors spaced at 5.08mm and equipped with locking mechanisms
CONSOLE	1 CONSOLE port with a RJ45 connector, supporting RS232 signal for device debugging and command configuration
Status LED	Power indicator, Operation indicator, Alarm indicator, Interface speed, and Link/Activity status indicator
Power Supply	
Input Voltage	DC Model: DC18V-72V, reverse polarity protection, single/dual power inputs available AC Model: AC85V-264V / DC110V-370V, single/dual power inputs available
Power Consumption	< 30W@AC220V(full load)
Connection	5-pin terminal block with a 5.08mm pitch and locking mechanism
Physical Characteristics	

Dimensions	482.6 × 44 × 315 mm (mounting brackets included)
Installations	19inch 1U Rack mount
IP Code	IP40; Aluminum alloy shell
Weight	4kg
Working Environment	
Operating Temperature	-40℃~+70℃
Storage Temperature	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 ※ Ethernet ports support 6kV surge protection IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G Combo Port	1G Copper Port	Input Voltage
CISCOM7028GX-4XGF-8GC-16GT-DC24	4	8	16	DC18V ~ 72V power input
CISCOM7028GX-4XGF-8GC-16GT-DC48	4	8	16	
CISCOM7028GX-4XGF-8GC-16GT-AD220	4	8	16	DC85V ~ 264V/DC110V ~ 375V power input
CISCOM7028GX-4XGF-8GC-16GT-2DC24	4	8	16	DC18V ~ 72V redundant power inputs
CISCOM7028GX-4XGF-8GC-16GT-2DC48	4	8	16	
CISCOM7028GX-4XGF-8GC-16GT-2AD220	4	8	16	DC85V ~ 264V/DC110V ~ 375V redundant power inputs

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