CISCOM8028GX-4XGF-8GC-16GT

28-Port Layer 3 10G Managed Rack Mount Industrial Ethernet Switch

- 4×10G SFP+ ports, 8×1G fiber/copper combo ports, 16×1G copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), EAPS, ERPS, STP/RSTP, MSTP, MRP for network redundancy
- Support static routing, RIPv1/v2, OSPF dynamic routing protocols for route selection and packet forwarding
- Support VRRP to combine multiple routing devices into a virtual router for backup redundancy
- DC24V, DC48V or AD220V power input, redundant power inputs available
- Rugged aluminum alloy housing with IP40-rated housing protection, fanless heat dissipation,
- -40°C to +70°C operating temperature range

Product Description

CISCOM8028GX-4XGF-8GC-16GT is a 28-port Layer 3 10G managed industrial Ethernet switch designed for rack-mount installation. It features 4×10G SFP+ ports, 8×1G fiber/copper combo ports, and 16×1G copper ports, adopting a store-and-forward switching mechanism that delivers high bandwidth performance, automatic packet error detection, and reduced transmission failures to ensure stable, reliable, and efficient data transfer in 10G networking. Built with industrial-grade components and high-standard system design, it comes in a standard 19-inch 1U rack-mount aluminum alloy housing with fanless heat dissipation, operating from -40°C to +70°C, and IP40-rated housing protection to withstand harsh industrial environments.

This Layer 3 industrial switch supports multiple management methods, including CLI via CONSOLE or TELNET/SSH, WEB management via HTTP/HTTPS, and access the device MIB via SNMP. It supports a wide range of network protocols, including RIP, OSPF, VRRP, MW-Ring, EAPS, ERPS, STP/RSTP/MSTP, MRP, VLAN, GVRP, QoS, LACP, PIM, IGMP, IGMP Snooping, GMRP, LLDP, RMON, 802.1X, ACL, DHCP Server/Relay/Security/Snooping, NTP client/server, port mirroring, DDM, Ping, and Tracert, meeting the needs of complex and secure industrial networks.

Tested for functionality, temperature endurance, safety, and EMC compliance, the industrial Ethernet switch is ideal for demanding applications in industrial automation, energy, smart cities, intelligent transportation, mining, and manufacturing.

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 bandwidth, improve link reliability, and enable load balancing.
- Support 802.1Q VLAN with Access, Trunk, and Hybrid modes for easy broadcast domain segmentation and enhanced network security.
- Support VLAN configuration based on port, MAC, protocol, or IP subnet for different network environments.
- Support GVRP protocol for dynamic VLAN distribution, registration, and propagation.
- Support MAC address aging and learning limits, static MAC forwarding and filtering, and MAC binding to ensure authorized access.
- Support multicast protocols including PIM, IGMP, IGMP Snooping, and GMRP to reduce multicast flooding and save network resources.
- Support LLDP to obtain neighbor device information, monitor link status, and facilitate topology management and fault location.
- Support MSTP with compatibility for RSTP/STP to eliminate loops and improve network reliability.
- Support ERPS for multiple-ring networking, link backup, and fast convergence to enhance stability.
- Support EAPS and MW-Ring proprietary ring protocols to improve communication reliability.
- Support MRP for media redundancy with reconfiguration time ≤500ms.
- Support loopback detection to prevent network storms caused by loops.
- Support static routing and dynamic routing protocols including RIPv1/v2 and OSPF for route selection and packet forwarding.
- Support SNMPv1/v2c/v3 with MIB-based management for information query, modification, and troubleshooting.
- Support RMON for remote monitoring, statistics, and alarms for different frame types.
- Support QoS to prioritize voice, video, and critical data transmission to relieve congestion.
- Support ACL filtering based on source/destination IP and MAC, and TCP/UDP/ICMP/IGMP packets.
- Support 802.1X port authentication for user identity verification and access control.
- Support DHCP server for centralized dynamic IP address management.
- Support redundant power inputs with power failure relay alarm and host alarm, and port disconnection alarm to the host.

Specifications

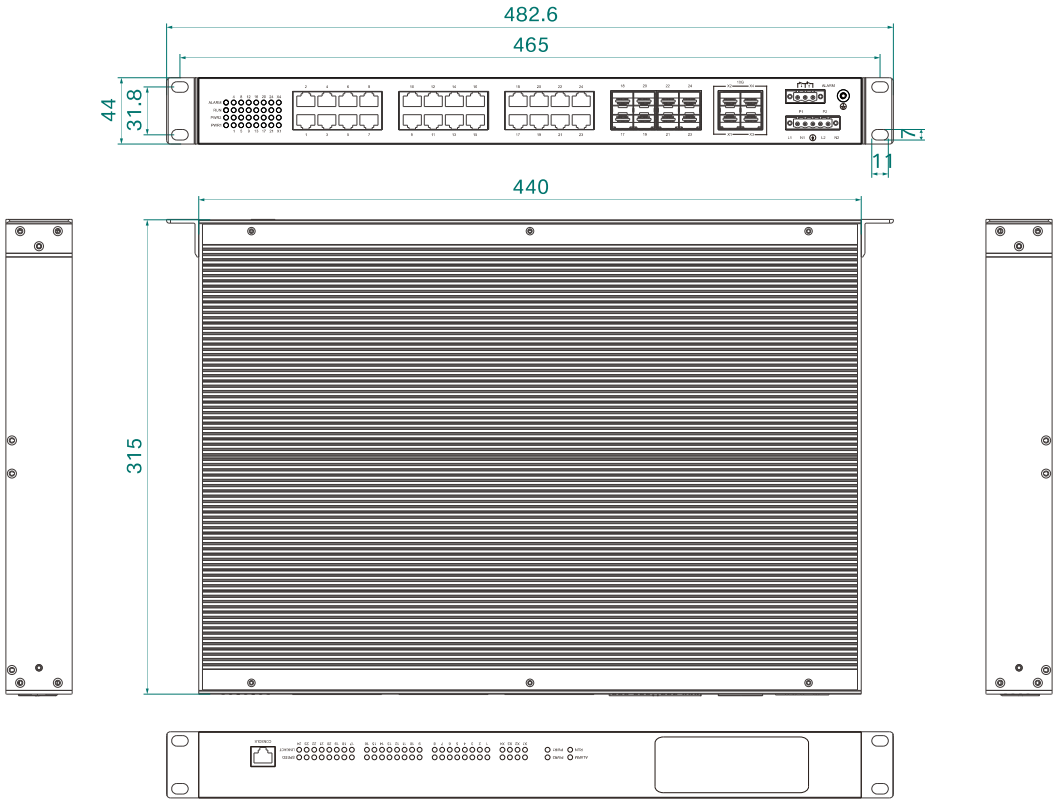
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN, port / MAC / subnet / protocol based VLAN division, GVRP, port isolation Support MAC address aging, static MAC address binding and filtering, MAC address learning restrictions
Redundancy	Support MW-Ring proprietary ring network technology Support EAPS, ERPS Support STP/RSTP/MSTP Support MRP
Multicast	Support IGMP Snooping Support the static multicast, GMRP Support IGMPv1/v2/v3, Support PIM-DM, PIM-SM
Routing	Support static routing Support RIPv1/ v2, OSPF dynamic routing Support VRRP
Security Management	Support HTTP, HTTPS, TELNET, and SSH access mode Support ACL and filtering data on the L2-L4 layer Support 802.1X port authentication and MAC address authentication Support loopback detection
Management and Maintenance	Support DHCP Client/Server/Relay/Snooping Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c Trap, LLDP, RMON Support port mirroring, Ping, Traceroute 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

Backplane Bandwidth	128Gbps
Buffer Size	12Mbit
Mac Address Table	16K
LPM Routing Entries	512
Interface	
10G Fiber Port	4×10G Base-R SFP+ ports, compatible with 1000 Base-X Recommended our SFP module to use together
Gigabit Copper Port	16×10/100/1000 Base-T(X) auto-sensing RJ45 copper ports, full/half duplex, auto MDI /MDI-X
Gigabit Combo Port	8×1G fiber/copper combo ports, support 10/100/10000 Base-T(X) auto-sensing RJ45 copper ports or 1000Base-X SFP ports (compatible with 100Base-FX), copper ports support full/half duplex, auto MDI /MDI-X Recommended our SFP module to use together
Relay	1×relay alarm output, 5.08 mm pitch 3-pin terminal block
CONSOLE	1×RJ45 CONSOLE port of RS232 signal for device 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: DC18~72V, single/dual power inputs optional, anti-reverse connection AC Model: AC85~264V / DC110~370V, single/dual power inputs optional "
Power Consumption	< 30W@AC220V (full load)
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimension	482.6×44×315 mm (Mounting brackets included, connector excluded)
Installation	Standard 19-inch 1U rack-mounting
IP Code	IP40

Weight	4kg
Working Environment	
Operating Temp	-40℃~+70℃
Storage Temp	-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 ※Network port supports 6kV lighting protection IEC 61000-4-4 (EFT): Level 4

Dimensions

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G Combo Port	1G Copper Port	Input Voltage
CISCOM8028GX-4XGF-8GC-16GT-DC24	4	8	16	DC18~72V Power Input
CISCOM8028GX-4XGF-8GC-16GT-DC48	4	8	16	
CISCOM8028GX-4XGF-8GC-16GT-AD220	4	8	16	AC85~264V/DC110~370V Power Input
CISCOM8028GX-4XGF-8GC-16GT-2DC24	4	8	16	DC18~72V Redundant Power Inputs
CISCOM8028GX-4XGF-8GC-16GT-2DC48	4	8	16	
CISCOM8028GX-4XGF-8GC-16GT-2AD220	4	8	16	AC85~264V/DC110~370V Redundant Power Inputs

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