CISCOM8028GX-4XGF-8GT-16F

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



- 4x10G SFP + ports, 8x1G copper ports, 16x100M fiber ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MSTP, MRP for network redundancy
- Support static routing, RIPv1/v2, OSPF dynamic routing protocol, realize routing and message forwarding
- Support SNMP v1/v2c/v3 and SNMPv1/v2c Trap
- Support user permission management
- Support single or dual AC85~264V/DC110~370V redundant power inputs
- High strength aluminum alloy shell, IP40 protection, fanless design
- -40°C to +75°C working temperature

Product Description

CISCOM8028GX-4XGF-8GT-16F layer 3 10G industrial Ethernet switch supports 4x10G SFP + ports, 8x1G copper ports and16x100M fiber ports. It adopts a storage and forwarding mechanism and has strong bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures, and easily supporting 10G networking to ensure stable, reliable, and efficient data transmission. The product uses industrial grade components, combined with high standard system design and production control. Standard 19-inch 1U rack installation, high strength durable aluminum alloy shell, fanless efficient heat dissipation, -40°C to +75°C wide working temperature, high standard industrial protection design, can adapt to a variety of harsh working environment, stable communication performance.

CISCOM8028GX-4XGF-8GT-16F layer 3 switch follows the main communication standards in the industrial field and meets the technical problems such as real-time communication and network security. The product provides various ways of managing switches, such as accessing the switch command line (CLI) through the CONSOLE port or TELNET/SSH protocol, the switch WEB interface through HTTP/HTTPS, and the device MIB through the SNMP protocol. In terms of structural installation, you can flexibly choose either 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 the storm suppression of broadcast, multicast and unknown unicast packets, support the broadcast and multicast data packet storm detection, to prevent the broadcast storm
- Support link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability and realize network load sharing
- Support port mirroring, can collect port ingress/egress, and bidirectional data for network detection and fault management
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain, enhance the security of the network
- Support VLAN division based on port, MAC, protocol, IP subnetwork, etc., which can be applied to networks in different environments
- 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
- The PIM, IGMP, GMRP, IGMP Snooping and other multicast protocols are supported to reduce the broadcast of multicast data in the network and 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-loop protection technology, provide multi-loop networking, link backup, achieve fast convergence and improve network stability
- Support STP, RSTP, MSTP generating tree protocol, which can eliminate network loop and improve network reliability
- Support EAPS loop protection protocol and MW-RingV2 private loop network protocol, enhance the reliability of system communication
- Support loop back detection to prevent the network from ring and causing a network storm
- Support VRRP virtual routing redundancy protocol, forming multiple routing devices into a virtual router to realize redundant backup and load sharing
- Support IPv4 static routing configuration, RIPv1/v2, OSPF dynamic routing protocol, realize routing and message forwarding
- Support HTTP, HTTPS, TELNET, SSH network access mode, SSH can provide a secure remote login
- Support SNMPv1/v2c/v3, through the MIB network management system can be information query, information modification and troubleshooting, to achieve centralized management
- Support QoS, give priority to voice, video and important data in network devices, and solve network congestion
- Support ACL access control list, filtering TCP/UDP/ICMP/IGMP messages based on source / destination IP and MAC address
- Supports 802.1X port authentication, authentication and access control for access users
- Support dual power redundancy drop/port drops relay alarm and upper computer alarm

Technical Specifications

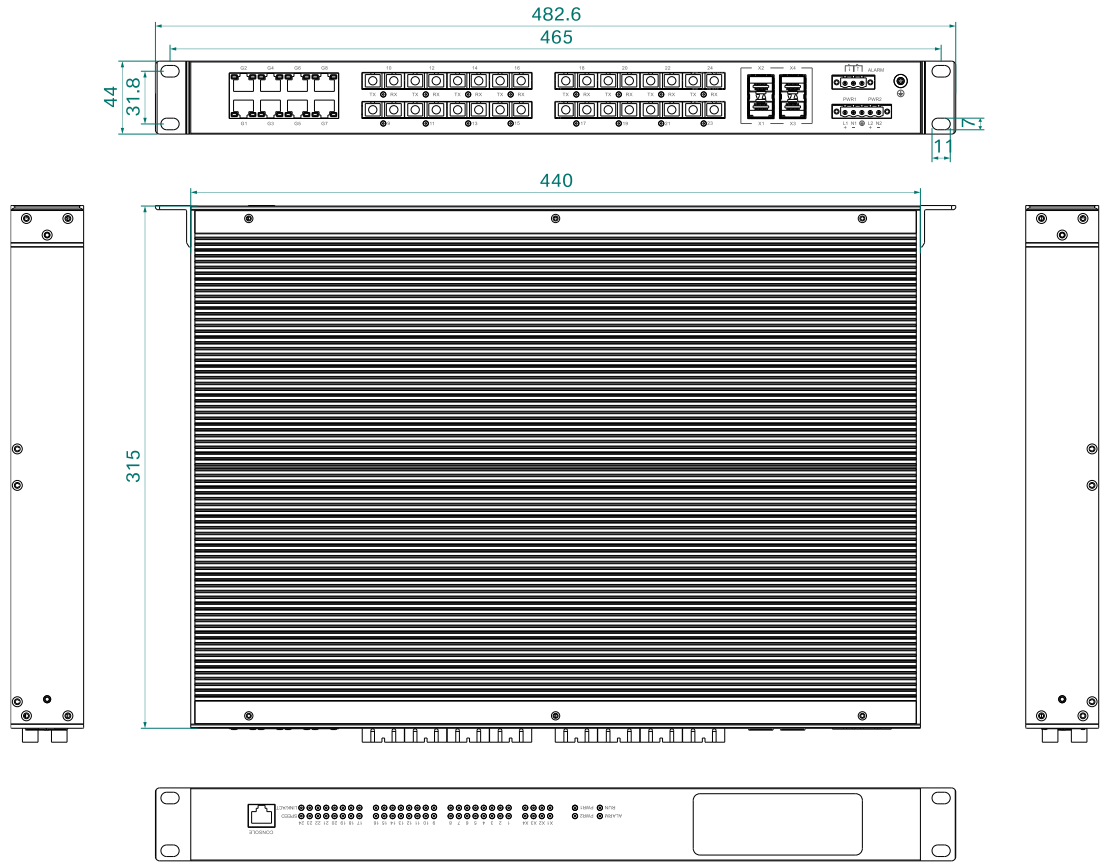
Software	
Switching	Support port configuration, such as port rate, duplex mode, flow control, jumbo frame, etc. Support 802.1Q VLAN, port/MAC/subnet/protocol based VLAN division, GVRP, port isolation Support port speed limit, storm suppression, storm detection, static port convergence, dynamic convergence LACP Support MAC address aging, static MAC address binding and filtering, and MAC address learning restrictions
Redundancy	Support MW-Ring proprietary ring network technology support EAPS support ERPS Support STP/RSTP/MSTP
Broadcast	Support IGMPv1/v2/v3, and IGMP Snooping Support the static multicast GMRP Support PIM-DM, PIM-SM
Routing	Support static routing Support RIPv1/v2, OSPF dynamic routing support VRRP
Security Management	Support loopback detection 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 dual power redundancy drop relay alarm
Management and Maintenance	Support QoS quality of service, Cos/DSCP/Policy mapping, and WRR/SP/SRR queue scheduling algorithm Support DHCP Server/Security/Relay/Snooping Support SNMP v1/v2c/v3, SNMPv1/v2c Trap, LLDP Support port mirror, Ping, Tracert Support user rights management, system logs, local time setting synchronization, and SNTP network time synchronization Support online restart, restore factory Settings, system upgrade, configuration file upload / download Support for unified upper-level computer software management
Switch Capability	

Processing Mode	Store and forward
Backplane Bandwidth	128G
Buffer Size	12Mbit
MAC Table Size	16K
Interface	
10G Fiber Port	4*10GBase-R SFP+ ports, support 1000Base-X
1G Copper Port	8*10/100/1000Base-T(X) auto-sensing RJ45 ports, full/half duplex, auto MDI/MDI-X connection
100M Fiber Port	16*100Base-FX fiber port, support SC/FC/ST connector, multimode/single mode optional
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	
Input Voltage	AC85~264V/DC110~370V dual power redundancy
Power Consumption	＜29W@AC220V (full load)
Connection	5-pin 5.08mm terminal block
Protection	Over current protection
Physical Characteristics	
Dimension	482.6×44×315 mm (Including mounting brackets)
Installation	Standard 19-inch 1U rack mount
IP Code	IP40
Weight	About 4.5kg
Working Environment	

Operating Temp	-40°C to +75°C
Storage Temp	-40°C to +85°C
Ambient Humidity	5%~95% (No condensation)
Industry Standard	
EMC	IEC 61000-4-2(ESD): Level 3 (Contact discharge±6kV, air discharge±8kV) IEC 61000-4-5(Surge): Level 4 (power: common mode±4kV, differential mode±2kV network port: common mode±6kV, differential mode±2kV） IEC 61000-4-4(EFT): Level 4 (power: ±4kV, copper port: ±2kV)

Dimensions

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G Fiber Port	100M Fiber Port	Input Voltage
CISCOM8028GX-4XGF-8GT-16F(M/S)-2AD220	4	8	16	Dual AC85~264V /DC110~370V inputs

Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.

Tel: +86-027-59257958

Mail: sales@come-star.com

Official site: www.come-star.com

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