CISCOM8028GX-4XGF-24GT

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



- Support 4x10G SFP+ ports, 24x1G RJ45 ports
- MW-Ring (recovery time < 20 ms @ 200 switches), EAPS, ERPS, STP/RSTP/MSTP for network redundancy
- Support static routing, RIP, OSPF dynamic routing protocols
- Support DDM digital diagnostic monitoring, which can monitor the operating temperature, voltage, current, transmit/receive optical power and other parameters of DDM SFP optical modules
- Support device temperature monitoring
- Support single or dual DC24, DC48 or AD220 power input options, dual inputs support power redundancy
- High-strength aluminum alloy shell, IP40 protection, fanless design
- - 40°C~+75°C operating temperature range

Product Introduction

CISCOM8028GX-4XGF-24GT is a Layer 3 core 10G rack-mounted industrial Ethernet switch engineered for high-performance and highly reliable industrial networks. It features 4 × 10G SFP+ uplink ports and 24 × Gigabit RJ45 ports, delivering strong switching capacity for bandwidth-intensive applications. Using a store-and-forward architecture with advanced packet processing, the switch automatically detects and handles packet errors to reduce transmission failures and ensure stable, efficient 10G and Gigabit data forwarding. Built with carefully selected industrial-grade components and high-standard system design, it supports standard 19-inch 1U rack installation and is housed in a rugged high-strength aluminum alloy enclosure. The fanless thermal design, wide operating temperature range of −40°C to +75°C, and industrial-level protection enable reliable operation in harsh and demanding environments.

Designed to meet the real-time communication and security requirements of modern industrial networks, the CISCOM8028GX-4XGF-24GT complies with major industrial communication standards and offers flexible management options. Users can manage the switch via CLI through the USB console or Telnet/SSH, access the web interface through HTTP/HTTPS, or integrate it into centralized management systems using SNMP. Rich Layer 2 and Layer 3 features—including routing, redundancy, ring protection, multicast management, traffic optimization, and access control—help enhance network performance, reliability, and security in complex topologies. Having passed stringent functional, temperature, safety, and EMC testing, this series is well suited for long-term deployment in integrated energy systems, smart cities, rail transit, intelligent transportation, smart factories, industrial automation, and other mission-critical industrial applications.

Product Features

- Support storm suppression of broadcast, multicast and unknown unicast messages, storm detection of broadcast and multicast packets, and prevents network storms
- Support static link aggregation and dynamic link aggregation LACP, which can increase transmission bandwidth, improve link reliability and realize network load sharing
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface to easily divide multiple broadcast domains and enhance network security
- Support VLAN division based on port, MAC, protocol, IP subnet, etc., which can be applied to networks in different environments
- Support MAC address table and aging time limit, static MAC address binding and filtering to ensure the use of legitimate users
- Support GVRP protocol to dynamically distribute, register and propagate VLAN attributes and maintain dynamic VLAN
- Support multicast protocols such as PIM, IGMP, GMRP, IGMP Snooping, etc., 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, monitor link status, and facilitate topology management and fault location
- Support STP, RSTP, and MSTP spanning tree protocols to eliminate network loops and improve network reliability
- Support ERPS Ethernet multi-ring protection technology, provides multi-ring networking, performs link backup, achieves rapid convergence, and improves network stability
- Support EAPS loop protection protocol and MW-RingV2 private ring network protocol, enhancing the reliability of system communication
- Support loopback detection to prevent network loops from causing network storms
- Support VRRP virtual routing redundancy protocol, which combines multiple routing devices into a virtual router to achieve redundant backup
- Support static routing configuration, RIPv1/v2, OSPF dynamic routing protocols to achieve routing selection and message forwarding
- Support SNMPv1/v2c /v3, and can query, modify and troubleshoot information through MIB network management system to achieve centralized management
- Support QoS service quality, so that voice, video and important data are transmitted first in network devices to solve network congestion
- Support ACL access control list, filter TCP/UDP/ICMP/IGMP messages based on source/destination IP and MAC address
- Support 802.1X port authentication to authenticate users and control access rights
- Support DHCP server to centrally manage and configure user IP addresses dynamically

Technical Specifications

Software Features	
Exchange	Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics Support 802.1Q VLAN, VLAN based on port/MAC/protocol/subnet, GVRP, port isolation Support MAC address aging and learning limit, static MAC address binding and filtering
Redundancy	Support fast ring network MW-Ring proprietary protocol Support EAPS, ERPS Support STP/RSTP/MSTP
Multicast	Support IGMP Snooping Support GMRP Support IGMP v1/v2/v3 Support PIM-DM, PIM-SM
Routing	Support static routing Support RIP, OSPF dynamic routing Support VRRP
Security management	Support HTTP, HTTPS, TELNET, SSH access methods Support ACL access control list to filter L2-L4 layer data Support 802.1X port authentication and MAC address authentication Support loopback detection
Management and maintenance	Support DHCP Server/Snooping/Relay/Security Support QoS, SNMPv1/v2c /v3, SNMPv1/v2c TRAP, LLDP Support port mirroring, DDM, Ping, Traceroute Support user management with different permissions, system log, local time synchronization, and SNTP client Support online restart, factory reset, system upgrade, configuration file upload/download
Switching performance	
Exchange method	Store and forward
Backplane bandwidth	128Gbps
Buffer size	12Mbit
MAC address table	16K
LPM routing entries	768
Interface Specifications	
10G fiber port	4*10GBase -R SFP+ ports, compatible with 1000Base - X / 100Base-FX

Technical Specifications

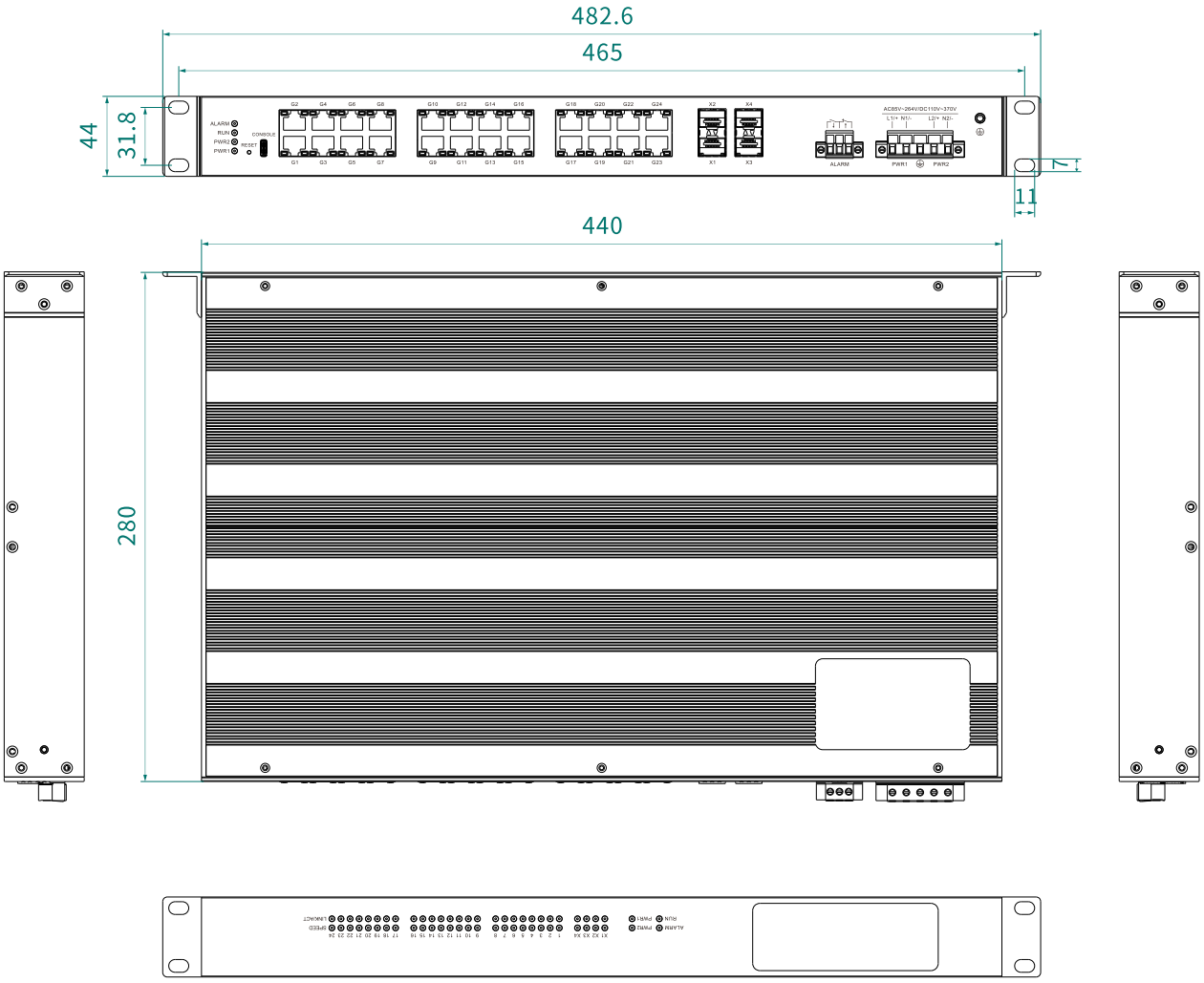
Gigabit RJ45 port	24* 10/100/1000 Base-T(X) auto-sensing RJ45 ports, full/half duplex, auto MDI/ MDI-X
Relay	1* relay alarm output, 3-position 5.08 mm pitch locking terminal block
CONSOLE	1* CONSOLE port, using USB Type-C interface, for device debugging and command line configuration
Button	One-click restart or factory reset button
Indicator lights	Power indicator, operation indicator, alarm indicator, interface speed and connection status indicator
Power	
Power Input	DC model: DC18~72V, anti-reverse connection, support single/ dual power supply optional AC model: AC85~264V/ DC110~370V, support single/ dual power supply optional
Full load power consumption	< 22 W@ DC 24 V, < 22 W@ DC48 V , < 22 W@ A C 220 V
Connection	5 -position 7.62 mm pitch terminal block with locking
Mechanical	
Dimensions	482.6×44×280 mm (including mounting brackets)
Installation	Standard 1 9-inch 1 U rack mount
IP protection	Aluminum alloy housing, IP 40 protection grade
Weight	About 4kg
Work Environment	
Operating temperature	- 40°C~+75°C
Storage temperature	- 40°C~+85°C
Relative humidity	5%~95% (no condensation)
Industry Standards	

Technical Specifications

EMC	IEC 61000-4-2 (ESD): Level 4 (Contact discharge ±8kV, air discharge ±15kV) IEC 61000-4-5 (Surge): Level 4 (Power supply: Common-mode ±4kV, differential-mode ±2kV; Network port: Common-mode ±4kV, differential-mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV Network port: ±2kV) * The surge of DC model is Level 3 (power common mode ±2kV), and others are Level 4

Dimensions

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G RJ45 Port	Power Input
CISCOM8028GX-4XGF-24GT-DC24	4	24	Single DC18~72V (Dual power supply optional)
CISCOM8028GX-4XGF-24GT-DC48	4	24	
CISCOM8028GX-4XGF-24GT-AD220	4	24	Single AC85~264V or DC110~370V (dual power supply optional)

Contact Us

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