

CISCOM8030GX-6XGF-16GF-8GC

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



- 6 x10G SFP+ ports, 16 x1G SFP ports,8 x1G Combo ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MSTP for network redundancy
- Support IPv4/IPv6 static routing, RIP, RIPng, OSPFv2/v3 dynamic routing protocols
- Single or dual DC24, DC48 or AD220 power input options, dual input supports power redundancy
- High-strength aluminum alloy shell, IP40 protection, fanless design
- -40°C ~ +75°C working temperature range

Product Description

CISCOM8030GX-6XGF-16GF-8GC is a Layer 3 core 10 rack-mount industrial Ethernet switch designed for high-capacity aggregation and backbone networking in demanding industrial environments. It features 6 × 10G SFP+ ports, 16 × Gigabit SFP ports, and 8 × Gigabit combo ports, delivering flexible fiber and copper connectivity for complex network topologies. Based on a store-and-forward switching architecture, the switch provides strong bandwidth processing capability and intelligent packet error detection to reduce transmission failures, ensuring stable, reliable, and efficient 10G data forwarding. Built with industrial-grade components and a high-standard system design, it adopts a 19-inch 1U rack-mount form factor with a rugged high-strength aluminum alloy enclosure. Fanless and efficient thermal design enables wide-temperature operation from -40°C to +75°C, allowing stable performance in harsh and mission-critical industrial environments.

The CISCOM8030GX-6XGF-16GF-8GC series complies with major industrial communication standards and meets strict requirements for real-time communication and network security. It supports multiple management methods, including CLI access via the CONSOLE port or TELNET/SSH, web-based management through HTTP/HTTPS, and SNMP-based monitoring for centralized network supervision. Rich Layer 2 and Layer 3 protocols and features enable advanced routing, redundancy, multicast, security, and traffic management, enhancing overall network reliability and scalability. Comprehensive system management functions such as configuration backup and restoration, online firmware upgrades, and flexible installation options further simplify deployment and maintenance. The switch is well suited for integrated energy systems, smart cities, rail transit, intelligent transportation, industrial automation, and other large-scale industrial networking applications.

Product Features

- Support unicast frame, broadcast frame and unknown frame storm suppression, support broadcast and multicast data packet storm detection, prevent network storm
- Support link static aggregation and dynamic 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 MAC, protocol, IP subnet, etc., which can be applied to networks in different environments
- Support MAC address table and aging time limit, static unicast/multicast MAC address and interface binding to ensure the use of legitimate users
- Support PIM, IGMP, IGMP Snooping, MLD Snooping and multicast filtering 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, facilitate topology management and fault location
- Support ERPS Ethernet multi-ring protection technology, provide multi-ring networking, perform link backup, achieve rapid convergence, and improve network stability
- Support VRRP virtual routing redundancy protocol, which combines multiple routing devices into a virtual router to achieve redundant backup
- Support multiple login methods such as HTTP, HTTPS, TELNET, SSH, CONSOLE port, etc.
- Support SNMPv1/v2c/v3, and query, modify and troubleshoot information through MIB network management system to achieve centralized management
- Support RMON remote network monitoring, which counts and alarms various types of data frames, and can be used for remote monitoring and management of network management system
- Support port security, convert dynamic MAC addresses into secure dynamic/static/Sticky MAC, and enhance device security

- Support 802.1X port authentication, authenticate access users and control access rights
- Support AAA security network management mechanism, authenticate, authorize and bill through RADIUS and TACACS+ to prevent illegal users from logging in
- Support ACL access control list, which can customize multiple frame type filtering rules, filter or rate limit specified messages
- Support QoS service quality, so that voice, video and important data are transmitted first in network devices to solve network congestion
- Support port mirroring, which can collect the data sent and received by the port for network detection and fault management
- Support DDM digital diagnostic monitoring, which can monitor the working temperature, voltage, current, send/receive optical power and other parameters of DDM SFP optical modules
- Support Ping IPv4/IPv6, Traceroute IPv4/IPv6 to detect network connectivity and locate fault points
- Support dual power supply power failure alarm and port disconnection alarm, and support relay alarm mode
- Support DHCPv4 server to centrally manage and configure user IP addresses
- Support DHCPv4 snooping to ensure that DHCP clients obtain IP addresses from legitimate DHCP servers and prevent DHCP attacks
- Support DHCPv4 relay to assist DHCP servers in dynamically allocating network parameters to DHCP clients
- Support system logs to record user operations, system security, system failures and other information, and support Syslog server remote monitoring

Technical Specifications

Software	
Switching	Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics Support 802.1Q VLAN, VLAN based on MAC/protocol/subnet, port isolation, VLAN mapping Support MAC address aging and learning limit, static unicast or multicast MAC address binding
Redundancy	Support Fast Ring Network (MW-Ring) proprietary protocol Support ERPS Support STP/RSTP/MSTP
Multicast	Support IGMP Snooping Support MLD Snooping Support multicast filtering Support IGMPv2/v3 Support PIM-SM
Routing	Support IPv4/IPv6 static routing Support routing control, routing encryption and routing access control list Support RIP, RIPng, OSPFv2/v3 dynamic routing Support VRRPv2/v3

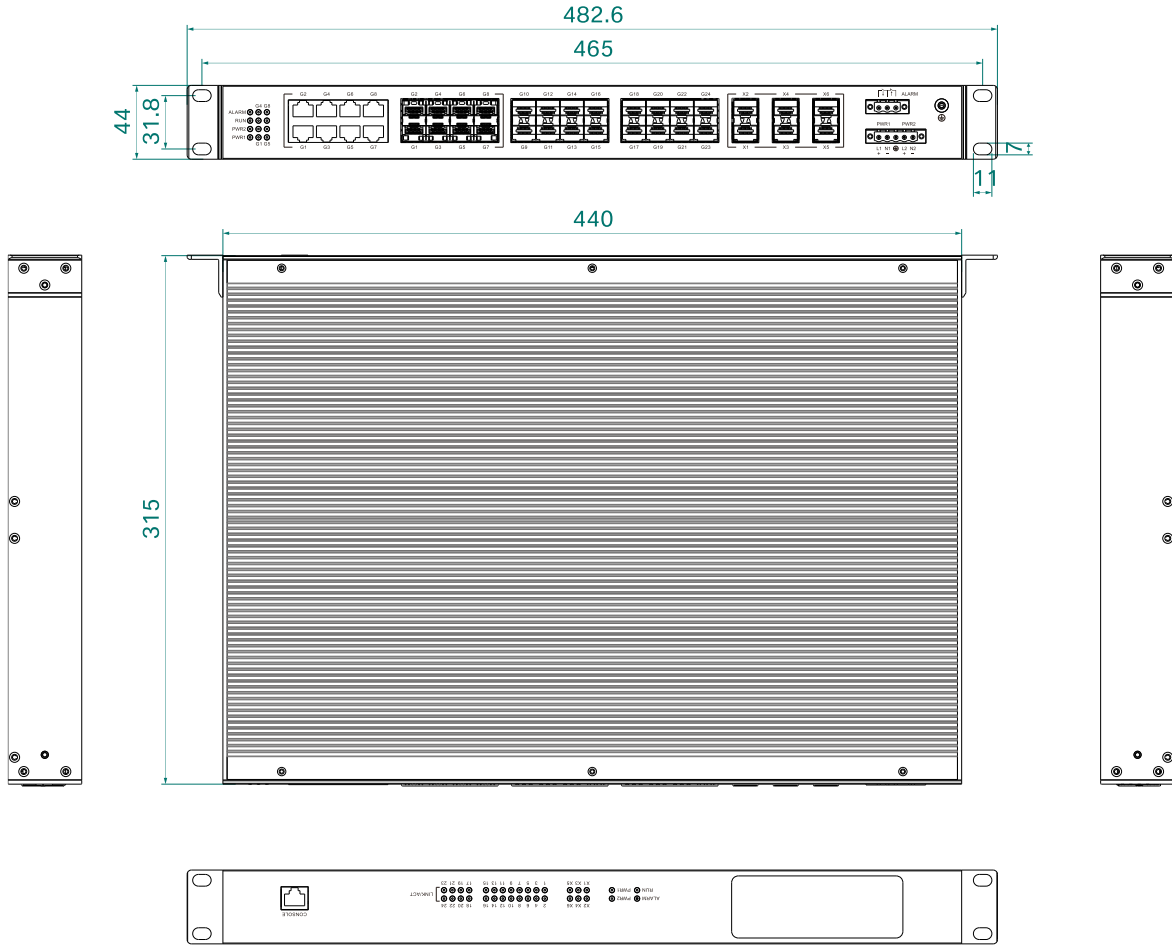
Technical Specifications

Security	<p>Support HTTP/HTTPS, SNMP, TELNET/SSH access management</p> <p>Support 802.1X port authentication, AAA authentication, RADIUS, TACACS+ protocol</p> <p>Support port security, source IPv4/IPv6 protection, ARP protection</p> <p>Support ACL, L2-L4 layer data filtering</p> <p>Support loopback detection, alarm</p>
Management and maintenance	<p>Support QoS, SP, DWRR queue scheduling</p> <p>Support DHCPv6 client/listener/relay, DHCPv4 client/server/listener/relay</p> <p>Support SNMPv1/v2c/v3, SNMPv1/v2c/v3 Trap, RMON, LLDP, LLDP MED</p> <p>Support private network management protocol MW-NMPv2</p> <p>Support port mirroring, DDM, Ping IPv4/IPv6, Traceroute IPv4/IPv6</p> <p>Support user rights management, log management, local time management and NTP client</p> <p>Support device temperature monitoring</p> <p>Support OAM/CFM/UDLD/sFlow/line diagnosis</p> <p>Support configuration file management, image upgrade and dual backup, online restart and factory reset</p>
Exchange	
Switching mode	Store and Forward
Backplane bandwidth	180Gbps
Buffer size	32Mbit
MAC address table	32K
Interface	
10G SFP+ Port	6 x 10GBase-R 10G SFP+ ports
Gigabit SFP Port	16 x 1000Base-X 1G SFP ports
Gigabit Combo Port	8 x 1G Combo ports, support 10/100/1000Base-T(X) autosensing 1G RJ45 copper port or 1000Base-X SFP port optional, copper port supports full/half duplex, auto MDI/MDI-X
Relay	1 x relay alarm output, 3-bit 5.08mm pitch locking terminal
CONSOLE	1 x CONSOLE port, RS232 signal RJ45 port, used for device debugging and command line configuration
Status LED	Power indicator, operation indicator, alarm indicator, interface indicator
Power	

Technical Specifications

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
Power consumption	< 47W@DC24V, < 46W@DC48V, < 48W@AC220V
Connection method	5-position 5.08mm pitch locking terminal block
Power protection	Built-in overcurrent protection
Mechanical	
Dimensions	482.6×44×315 mm (including mounting bracket)
Installation method	Standard 19-inch 1U rack-mount installation
IP code	IP40
Weight	About 4.5kg
Working Environment	
Operating temperature	-40°C ~ +75°C
Storage temperature	-40°C ~ +85°C
Relative humidity	5%~95% (No condensation)
Industry	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 ※ Network port supports 6kV lightning protection IEC 61000-4-4 (EFT): Level 4

Dimensions



Ordering Information

Standard Model	10G SFP+ Port	1G SFP Port	1G Combo Port	Power Input
CISCOM8030GX-6XGF-16GF-8GC-DC24	6	16	8	DC18~72V (dual power supply optional)
CISCOM8030GX-6XGF-16GF-8GC-DC48	6	16	8	
CISCOM8030GX-6XGF-16GF-8GC-AD220	6	16	8	AC85~264V / DC110~370V (Dual power supply)



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