CISCOM8030PTP-6XGF-16GF-8GC

30-port Layer 3 10G Rack Mounted PTP Industrial Ethernet Switch

- Support 6x10G SFP+ ports, 16 Gigabit SFP ports, 8 Gigabit combo ports

- Support IEEE1588 (PTP) and IEEE802.1AS (gPTP) protocols

- Support fast ring network (MW-Ringv2), ERPS, STP/RSTP/MSTP and other ring network redundancy protocols

- Support IPv4/IPv6 static routing, RIPv1/v2, and OSPF dynamic routing protocols

- Support single or dual AC85~264V/DC110~370V AC/DC power supply optional

- High-strength aluminum alloy casing, IP40 protection level, fanless casing for heat dissipation

- -40℃~+75℃ working temperature

Product description

CISCOM8030PTP-6XGF-16GF-8GC series layer 3 core 10G rack-mounted PTP industrial Ethernet switch supports 6x10G SFP+ ports, 16 Gigabit SFP ports and 8 Gigabit combo ports. It provides high-precision clock synchronization, has powerful bandwidth processing capabilities, automatically troubleshoots data packet errors, reduces transmission failures, and easily supports 10G networking to ensure stable, and efficient data transmission. The product selected industrial-grade components, combined with high-standard system design and high-strength aluminum alloy shell, durable fanless heat dissipation, and operates in a wide temperature range of -40℃~+75℃. CISCOM8030PTP-6XGF-16GF-8GC series layer 3 switches follow the main communication standards in the industrial field and meet technical issues such as real-time communication and network security. The product provides multiple ways to manage the switch, such as accessing the switch command line (CLI) through the CONSOLE port or TELNET/SSH protocol, accessing the switch WEB interface through HTTP/HTTPS, and accessing the device MIB through the SNMP protocol. It also provides a variety of network protocols, such as PTP, RIP, OSPF, VRRP, ERPS, MW-Ringv2, STP/RSTP/MSTP, VLAN, QoS, LACP, PIM, IGMP, IGMP Snooping, LLDP, 802.1X, ACL, RMON, DHCPv4 client/server/listening/relay, NTP client, port mirroring, DDM, Ping, Traceroute, etc. It supports system management functions such as configuration file upload and download, image file online upgrade and backup.

Product features

- Support storm suppression of unicast frames, broadcast frames and unknown frames, supports storm detection of broadcast and multicast packets, and prevents network storms

- Support link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability and achieve network load sharing

- Support 802.1Q VLAN and provides Access, Trunk, and Hybrid interfaces to easily divide multiple broadcast domains and enhance network security.

- Support VLAN division based on MAC, protocol, IP subnet, etc., applicable to networks in different environments

- Support MAC address table and aging time limit, static unicast/multicast MAC address and interface binding to ensure legal user use

- Support PIM, IGMP, IGMP Snooping and multicast filtering to reduce the broadcast of multicast data in the network and save network resources

- Support LLDP link layer discovery protocol, obtains LLDP neighbor device information, and monitors link status to 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, information query, information modification and troubleshooting can be carried out through the MIB network management system to achieve centralized management

- Support RMON remote network monitoring, collect statistics and alarms on various types of data frames, and can be used for remote monitoring and management of network management systems

- Support port security, convert dynamic MAC address into secure dynamic/static/Sticky MAC to enhance device security

- Support 802.1X port authentication to authenticate and control access rights of access users

- Support AAA security network management mechanism, performs authentication, authorization and accounting through RADIUS and TACACS+ to prevent illegal users from logging in

- Support ACL access control list, you can customize multiple frame type filtering rules to filter or rate limit specified packets

- Support QoS service quality, allowing voice, video and important data to be transmitted preferentially in network equipment to solve network congestion

- Support port mirroring, which can collect data sent and received by the port for network detection and fault management.

- 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 Ping IPv4/IPv6 and Traceroute IPv4/IPv6 to detect network connectivity and locate fault points
- Support dual power supply redundant power failure alarm and port disconnection alarm, and support relay alarm method
- Support DHCPv4 server to centrally dynamically manage and configure user IP addresses
- Support DHCPv4 snooping to ensure that DHCP clients obtain IP addresses from legal DHCP servers to prevent DHCP attacks.
- Support DHCPv4 relay to assist the DHCP server 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	
Exchange function	Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics Supports 802.1Q VLAN, MAC/protocol/subnet-based VLAN, port isolation, and VLAN mapping Supports MAC address aging and learning restrictions, static unicast or multicast MAC address binding
PTP	IEEE 1588v2 (Precision Time Protocol, PTP） IEEE 802.1AS (generalized PTP, gPTP)
Redundant technology	Support fast ring network (MW-Ringv2) private protocol Support ERPS Support STP/RSTP/MSTP
Multicast technology	Support IGMP Snooping Support multicast filtering Support IGMPv2/v3 Support PIM-SM
Routing technology	Support IPv4/IPv6 static routing Support routing control, routing encryption and routing access control list Support RIPv1/v2, OSPF dynamic routing Support VRRPv2/v3
Security management	Support HTTPS, SSH service control, HTTP/HTTPS, SNMP, TELNET/SSH access management Support 802.1X port authentication, AAA authentication, RADIUS, TACACS+ protocols Support port security, source IPv4/IPv6 protection, ARP protection

	Support ACL, filter L2-L4 layer data Support loopback detection and alarm
Management and maintenance	Support QoS, SP, DWRR queue scheduling Support DHCPv6 client, DHCPv4 client/server/listening/relay Support SNMPv1/v2c/v3, SNMPv1/v2c/v3 Trap, RMON, LLDP, LLDP MED Support private network management protocol CS-NMPv2 Support port mirroring, DDM, Ping IPv4/IPv6, Traceroute IPv4/IPv6 Support user rights management, log management, local time management and NTP client Supports configuration file management, image upgrade and dual backup, online restart and factory settings restoration

Exchange

Exchange method	Store and forward
Backplane bandwidth	180Gbps
Cache size	32Mbit
MAC address table	32K

Interface

10G port	6x10GBase-R 10G SFP+ ports
1G port	16x1000Base-X Gigabit SFP ports
Gigabit combo port	8xGigabit combo port, supports 10/100/1000Base-T(X) adaptive Gigabit RJ45 copper port or 1000Base-X Gigabit SFP ports optional, copper port supports full/half duplex, MDI /MDI-X adaptive
Relay	1 relay alarm output, 3-position 5.08mm pitch lock terminal block
CONSOLE	1 CONSOLE port, RS232 signal RJ45 port, used for device debugging and command line configuration
Indicator light	Power indicator light, operation indicator light, alarm indicator light, interface indicator light

Power Supply

Power input	AC85~264V/DC110~370V, single/dual power supply optional
Power consumption	＜47W@AC220V

Connection method	5-position 5.08mm pitch lock terminal block
Power protection	Built-in overcurrent protection
Mechanical	
Dimensions	482.6×44×315(mm) (Including mounting brackets)
Installation method	Standard 19-inch 1U rack mount installation
Chassis protection	IP40
Weight	About 4.5kg
Working Environment	
Operating temperature	-40℃~+75℃
Storage temperature	-40℃~+85℃
Relative humidity	5%~95% (no condensation)
Industry Standard	
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 ±6kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (power supply: ±4kV, network port: ±2kV)

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Dimensions

Unit: mm
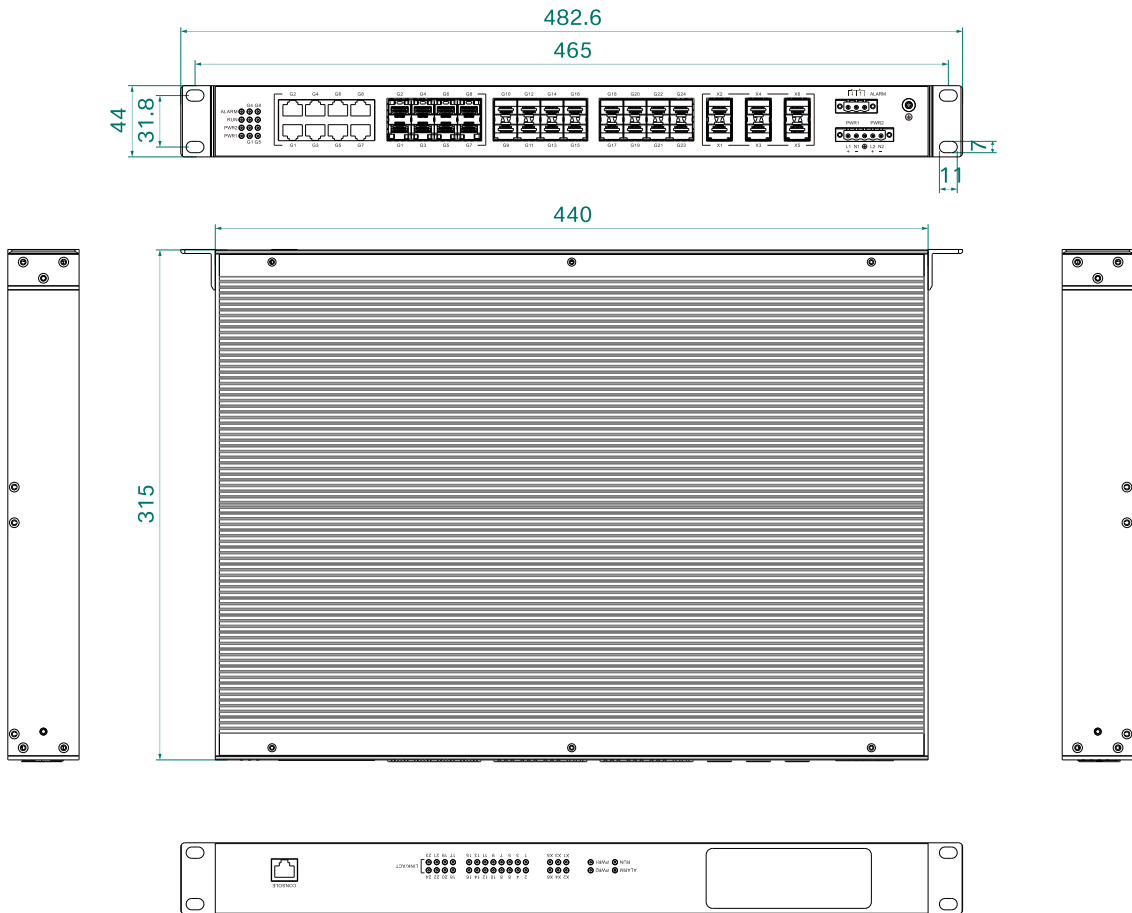
Ordering information

Standard Model	10G SFP+ Port	1G SFP+ port	Gigabit Combo Port	Input Voltage
CISCOM8030PTP-6XGF-16GF-8GC	6	16	8	AC85~264V/ DC110~370V

Contact Us

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