CISCOM8036TSN-4XGF-24GF-8GT

36-Port 10G Rack Mount Layer 3 TSN Industrial Ethernet Switch



- 4x10G SFP + ports, 24x1G SFP ports, 8x1G RJ45 ports
- Support TSN (Time-Sensitive Networking) series standards (IEEE 802.1AS/QbvQbu/CB/Qci), providing clock synchronization and low-latency flow control
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MSTP for network redundancy
- Support IPv4/IPv6 static routing, RIPv1/v2, OSPF dynamic routing protocol
- Support single or dual AC85~264V/DC110~370V inputs
- High strength aluminum alloy shell, IP40 protection, fanless design
- -40°C to +75 °C operating temperature range

Product Description

The CISCOM8036TSN-4XGF-24GF-8GT is a L3 core 10 Gigabit rack-mount TSN industrial Ethernet switch designed for reliable, deterministic, and low-latency data transmission in demanding industrial networks. It provides 4×10G SFP+ ports, 24×Gigabit SFP ports, and 8×Gigabit electrical ports, delivering strong bandwidth processing through a store-and-forward mechanism that reduces packet errors and ensures stable, efficient communication. Engineered with industrial-grade components and built using high-standard system design and strict production control, it features a robust 19-inch 1U aluminum alloy chassis for long-term durability. The fanless thermal design maintains stable performance across a wide operating temperature range of -40°C to +75°C, enabling consistent operation under harsh industrial conditions while ensuring dependable network performance.

The CISCOM8036TSN-4XGF-24GF-8GT TSN switch adheres to key industrial communication standards, addressing real-time communication, deterministic networking, and reinforced cybersecurity needs. It supports multiple management interfaces, including CLI access via CONSOLE or TELNET/SSH, web-based management via HTTP/HTTPS, and SNMP-based MIB access. The switch integrates a comprehensive set of industrial and Layer 3 protocols such as TSN, PTP, RIP, OSPF, ERPS, MW-Ring v2, STP/RSTP/MSTP, VLAN, QoS, LACP, PIM, IGMP/IGMP Snooping, LLDP, 802.1X, ACL, RMON, DHCPv4, NTP, port mirroring, DDM, and diagnostic tools including Ping and Traceroute. It also supports configuration file upload/download, online firmware upgrades, and system backup. With flexible rack-mount or desktop installation options, the product is well-suited for integrated energy systems, smart cities, rail transit, intelligent transportation, and industrial automation applications.

Product Features

- Support unicast frame, broadcast frame, and unknown frame storm suppression; supports broadcast and multicast packet storm detection to prevent network storms
- 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 easy to divide multiple broadcast domain, enhance the security of the network
- Support VLAN division based on MAC, protocol, IP subnetwork, and can be applied to networks in different environments
- Support GVRP, achieve dynamic distribution, registration and propagation of VLAN attributes, reduce manual configuration
- Support PIM, IGMP, IGMP Snooping and multicast filtering, Layer 2 multicast forwarding or filtering, 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-ring protection technology, provide multi-ring networking, link backup, achieve fast convergence, improve network stability
- Support VRRP virtual routing redundancy protocol, forming multiple routing devices into a virtual router to realize redundant backup and load sharing
- Support HTTP, HTTPS, TELENT, SSH, CONSOLE port and other login methods
- Support SNMPv1/v2c/v3, through the MIB network management system can be information query, information modification and troubleshooting, to achieve centralized management
- Support RMON remote network monitoring, make statistics and alarm of 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 to secure dynamic/static/sticky MAC, prevent illegal user access, and enhance security
- Support 802.1X port authentication, authentication and access control for access users
- Support AAA secure network management mechanism, verify, authorize and charge users through RADIUS and TACACS + to prevent illegal login
- Support ACL access control list, can customize a variety of frame type filtering rules, the specified message filtering or rate limit
- Support QoS service quality, give priority to voice, video and important data in network devices, and solve network congestion
- Support port mirroring to collect port sent and received data for network detection and fault management
- Support DDM digital diagnosis and monitoring, and can detect DDM optical module temperature, voltage, transmit optical power, receive optical power, etc.

- Support Ping IPv4/v6, Traceroute IPv4 / v6 to detect network connectivity and locate fault points
- Support loop detection to prevent the network ring from causing the network storm
- Support alarm for power failure and port disconnection, with relay alarm functionality available
- Support DHCP v4 server, centralized dynamic management and configuration of user IP addresses
- Support DHCP v4 Snooping, ensure that DHCP clients obtain IP addresses from a legitimate DHCP server to prevent DHCP attacks
- Support DHCPv4 relay to assist DHCP server to dynamically assign network parameters to DHCP clients
- Support system logging for user operation, system security, system failure and other information, and support remote monitoring of Syslog server

Technical Specifications

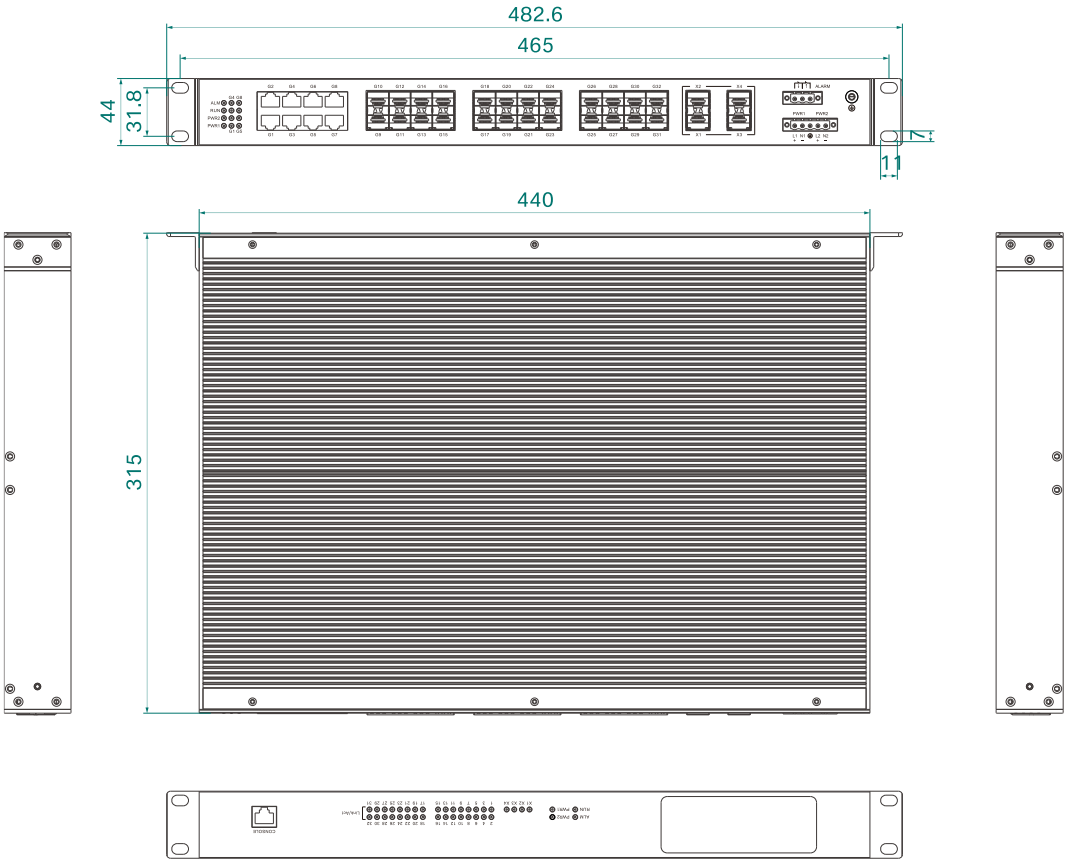
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN, VLAN based on MAC/protocol/subnet/flow, port isolation, and VLAN mapping Support MAC address aging and learning limits, static unicast or multicast MAC address binding
TSN	IEEE802.1AS generalized PTP, gPTP IEEE802.1Qbu Frame Preemption, FP IEEE802.1Qbv Time-Aware Shaper, TAS IEEE802.1Qci Per-Stream Filtering and Policing, PSFP IEEE802.1CB Frame Replication and Elimination for Reliability, FRER
Redundancy	Support MW-Ring proprietary ring network technology Support ERPS Support STP/RSTP/MSTP
Broadcast	Support IGMP Snooping support PIM Support multicast filtering Support IGMPv2/v3
Routing	Support IPv4/IPv6 static routing Support routing control, routing encryption, and routing access control lists Support RIPv1/v2, OSPF dynamic routing support VRRP v2/v3

Security Management	Support HTTPS and SSH service control, HTTP/HTTPS, SNMP, and TELNET/SSH access management Support 802.1X port authentication, AAA authentication, RADIUS, and TACACS+ protocols Support port security, source IPv4/IPv6 protection, and ARP protection Support ACLs for L2-L4 layer data filtering Support loopback detection and alarms
Time Management	Support IEEE 1588v2 (Precision Time Protocol, PTP) Support local time management and NTP client Support daylight saving time and time zone configuration
Management and Maintenance	Support QoS, SP, DWRR queue scheduling Support DHCPv6 Client, DHCPv4 Client/ Server / Snooping / Relay The CS-Hello and CS-NMP management protocols are supported Support SNMP, SNMP Trap, RMON, LLDP, LLDP MED Support port mirroring, DDM, Ping IPv4 / IPv6, and Traceroute IPv4 / IPv6 Support user rights management, log Support profile upload / download / activation / deletion, mirror double backup, restart, and restore factory settings
Switching	
Processing Type	Store-and-forward
Backplane Bandwidth	180Gbps
Buffer Size	32Mbit
MAC Table Size	32K
Interface	
10G Fiber Port	4*10GBase-R SFP+ ports
1G Fiber Port	24*1000Base-X SFP ports
1G Copper Port	8*10/100/1000Base-T(X) auto-sensing RJ45 ports, full / half-duplex, auto MDI/MDI-X connection
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, port indicator
Power Supply	
Input Voltage	AC85~264V / DC110~370V, dual power redundancy
Power Consumption	＜50W@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 4(contact discharge±8kV, air discharge±15kV) 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


482.6
465
44
31.8
7
11
440
315

Ordering Information

Standard Model	10G Fiber Port	1G Fiber Port	1G Copper Port	Input Voltage
CISCOM8036TSN-4XGF-24GF-8GT-AD220	4	24	8	AC85~264V/DC110~370V

Contact Us

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