CTS7014BP-M12-4GT-10TPoE

14-port M12 Connector Rack Mount L2 Managed Industrial POE Switch

- Support 4 x 1G copper ports,10 x 100M PoE copper ports,
- Support MW-Ringv1/v2, ERPS, STP/RSTP and other ring network redundancy protocols to improve network reliability
- Complies with IEEE802.3af/at standard, single-port PoE maximum output power 30W
- Support Bypass function, which can be directly connected after the device loses power
- Support MW-Ring, ERPS, STP/RSTP and other ring network redundancy protocols to improve network reliability
- Support DC110V (DC50V~160V) power input, anti-reverse connection
- High-strength aluminum alloy shell, fanless design
- -40℃~+70℃ working temperature

Product Description

CTS7014BP-M12-4GT-10TPoE is a Layer 2 100M managed rack-mounted industrial PoE Ethernet switch that supports 4 Gigabit Ethernet ports and 8 x 100M PoE ports. PoE complies with IEEE802.3af/at standards and provides power to standard PD powered devices through network cables without affecting the normal transmission of network data, saving power wiring costs. The Ethernet interface adopts the M12 connection method, which meets the requirements of the rail transit industry standards, ensures the tightness and firmness of the connection, and is suitable for scenes with strong vibrations.

It supports 2 groups of Bypass functions, which can be directly connected after the device loses power, bypassing the faulty node, avoiding network interruption, and ensuring normal network operation. The product adopts a store-and-forward mechanism, has powerful bandwidth processing capabilities, automatically checks for packet errors, reduces transmission failures, easily supports gigabit networking, and ensures stable, reliable, and efficient data transmission. The product selected industrial-grade components, with high-standard system design and production control, standard 19-inch 1U rack-mount installation, high-strength aluminum alloy shell, fanless shell heat dissipation, -40℃~+70℃ wide operating temperature, high-standard industrial protection design, can adapt to various harsh working environments, and has stable communication performance.

CTS7014BP-M12-4GT-10TPoE Layer 2 switch complies with the main communication standards in the industrial field and meets 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 and industry standards, such as MW-Ring, ERPS, STP/RSTP, VLAN, QoS, LACP, IGMP Snooping, GMRP, LLDP, 802.1X, ACL, SNTP, port mirroring, Ping, etc. It supports system management such as configuration file upload and download, image file online upgrade, etc. The product can be widely used in integrated energy, smart city, rail transit, intelligent transportation, smart factory, industrial automation and other fields

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Product Features

- Support storm suppression of broadcast, multicast and unknown unicast messages, supports storm detection of broadcast and multicast packets, and prevents broadcast storms
- Support static link aggregation, which can increase transmission bandwidth, improve link reliability and realize network load sharing
- Support 802.1Q VLAN, provides Access, Trunk, and Hybrid interfaces to easily divide multiple broadcast domains and enhance network security
- Support MAC address table and aging time limit, static unicast/multicast MAC address and interface binding to ensure the use of legitimate users
- Support multicast protocols such as GMRP and IGMP Snooping 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, performs link status monitoring, and facilitates topology management and fault location
- Support ERPS Ethernet multi-ring protection technology, provides multi-ring networking, performs link backup, achieves rapid convergence, and improves network stability
- Support RSTP spanning tree protocol, compatible with STP protocol, can eliminate network loops, and improve network reliability
- Support WEB control, HTTP, HTTPS protocol access control, login IP address restriction
- Support SNMPv1/v2c, information query, information modification and troubleshooting can be performed through the 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 the specified protocol message based on source/destination IP and MAC address
- Support 802.1X port authentication, identity authentication and access control for access users

Technical Specifications

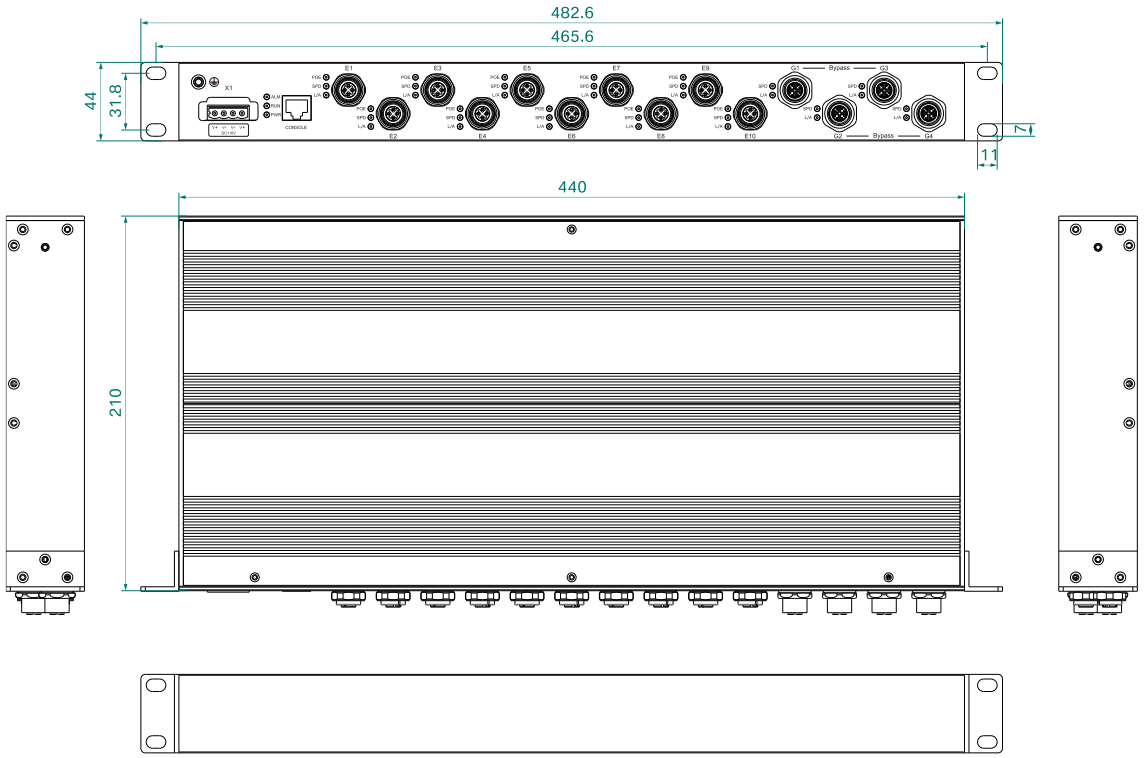
Software	
Switching	Support port configuration, port speed limit, storm suppression, static port aggregation, 802.1Q VLAN, MAC address aging, static unicast MAC address binding
Redundancy	Support MW-Ringv1/v2 private ring network technology Support ERPS Support RSTP, compatible with STP
Broadcast	Support IGMP Snooping Support GMRP Support static multicast MAC address binding
Security Management	Support WEB access control Support ACL, L2-L4 layer data filtering Support 802.1X port authentication Support Email log
Management and Maintenance	Support QoS, SNMP v1/v2c, LLDP Support port mirroring, Ping Support user rights management, system log, local time or network time synchronization Support online restart, factory reset, system upgrade, configuration file upload/download Support unified host computer software management
Switching	
Processing Type	Store and Forward
Backplane Bandwidth	12.8G
Cache Size	3Mbit
MAC Table Size	8K
Interface	

1G Copper Port	4 x 10/100/1000Base-T(X) adaptive Gigabit copper ports, using M12 (X-Code 8-Pin Female), supporting full/half duplex, MDI/MDI-X adaptive; ports G1 and G3 are a group of Bypass, ports G2 and G4 are another group of Bypass
100M POE Copper Port	10 x 10/100Base-T(X) adaptive 100M PoE copper port, using M12 (D-Code 4-Pin Female) interface, supporting full/half duplex, MDI/MDI-X adaptive; PoE power supply complies with IEEE802. 3af/at standard, Single-port PoE maximum output power 30W; PoE power supply pins: 1, 3 are positive, 2, 4 are negative
Status LED	Power indicator, operation indicator, alarm indicator, PoE indicator, rate indicator, interface indicator
Power Supply	
Input Voltage	DC110V（DC50V~160V）
Power Consumption	<14W@DC110V（without PD load）
Connection	4-position 5.08mm pitch terminal block
Physical Characteristics	
Dimension (L*W*H / mm)	482.6 × 44 × 210 mm (Including mounting brackets)
Installation	Standard 19-inch 1U rack mount installation
Weight	About 3.25kg
Working Environment	
Operating Temp	-40℃~+70℃
Storage Temp	-40℃~+85℃
Ambient Humidity	5%~95% (no condensation)
Industry Standard	

EMC	IEC 61000-4-2 (ESD): Contact discharge ±8kV, air discharge ±15kV IEC 61000-4-5 (Surge): Power supply, network port: common mode ±2kV, differential mode ±2kV IEC 61000-4-4 (EFT): Power supply: ±2kV; communication port: ±2kV

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Copper Port	100M PoE Copper Port	Input Voltage
CTS7014BP-M12-4GT-10TPoE-DC110	4	10	DC50V~160V

Contact Us

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