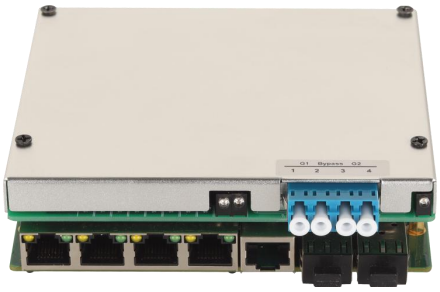
20127795

8-Port Layer 2 Gigabit Bypass Managed Embedded PoE Industrial Ethernet Switch



- Support 2*1000M Bypass fiber ports, 2x100M PoE copper ports and 4x100M copper ports, providing users with flexible networking methods
- Support fiber ports Bypass function. Fiber port G1 and G2 can connect directly after the switch is powered off, ensuring the normal operation of the network
- Comply with IEEE802.3at standard, maximum single POE port output is 15W, and the whole switch maximum POE output power is 30W
- Support ring network redundancy protocols such as MW-Ring v1/v2, ERPS, STP/RSTP to improve network reliability
- Fast Ring Redundancy (MW-Ring) <20ms enhances the reliability of system communication
- Support DC18~36V power input
- -40 ℃~+75 ℃ working temperature

Product Description

20127795 layer 2 Gigabit Bypass managed embedded PoE industrial Ethernet switch supports 2 Gigabit Bypass fiber ports, 2x100M PoE copper ports and 4x100M copper ports. The fiber port G1 and G2 support bypass function, which can directly connect after the device power failure, avoid network interruption, and ensure normal network operation. The PoE port is applicable and supplying 48V power to power receiving devices (PD) that comply with the IEEE802.3af standard. It adopts the storage and forwarding mechanism and has strong bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures, and easily supporting gigabit networking to ensure stable, reliable, and efficient data transmission. This product uses industrial grade components, combined with high standard system design and production control.

20127795 supports WEB network management function and various network protocols, such as MW-Ringv1/v2, ERPS, STP/RSTP, VLAN, LACP, LLDP, SNMPv1/v2c/v3, RMON, QoS, 802.1X, IGMP Snooping, ACL, WEB/TELNET/SSH Access Control, static convergence, port mirroring, static MAC address binding, network diagnosis, loop detection, Email log, alarm, SNTP, system log, and online system upgrade, etc, to improve network performance, reliability, and security to meet the needs of various complex networks. This product meets the requirements of complex networks and harsh industrial environments through strict testing of functions, high and low temperatures, safety regulations and EMC. It can be widely used in fields such as comprehensive energy, smart city, rail transit, intelligent transportation, smart factory and industrial automation.

Product Features

- Support broadcast, unknown multicast and unknown single broadcast text rate limit, broadcast and multicast data packet storm detection, prevent broadcast storm
- Support link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability
- Support port mirroring and collecting data from port entrances and exits for network detection and fault management
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain, enhance the security of the network
- Support IGMP Snooping, establish a layer 2 multicast forwarding table, reduce multicast data broadcasting in the network, and 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 RSTP Spanning Tree Protocol, compatible with STP protocol, can eliminate network loop, improve network reliability
- Support WEB control, HTTP, HTTPS protocol access control, login IP address restrictions
- Support centralized management of SNMPv1/v2c/v3 and SNMPv1/v2c/v3 TRAP information
- Support State Grid TRAP and private TRAP
- Support RMON remote network monitoring, make statistics and alarm of various types of data frames; It can be used for remote monitoring and management of network management system
- Support QoS quality of service, allowing voice, video and important data to be transmitted preferentially in network equipment to solve network congestion
- Support ACL access control list, multiple frame type filtering rules can be customized to filter or rate limit specified messages
- Support 802.1X port authentication, authenticates the access users, and provide local and RADIUS login authentication
- Support loop back detection to prevent the network from ring and causing the network storm
- Support PoE Ethernet power supply, customizable port power priority, and supply power to standard PD devices through Ethernet cables, saving power wiring costs
- Support system log information recording, downloading, and classification, which can be output to web pages, log hosts and consoles for display

Specification

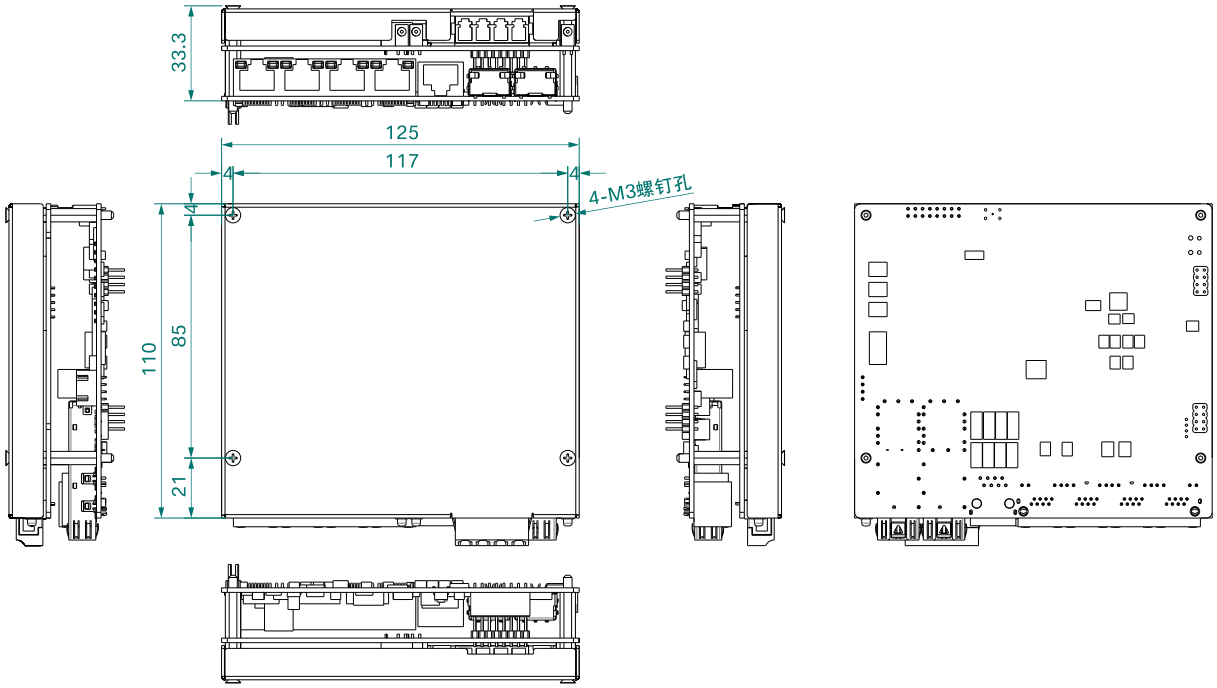
Software	
Switching	Support port configuration, rate configuration, storm detection, port trunk, LACP, and port statistics Support 802.1Q VLAN, port isolation Support MAC address aging and static MAC address binding
Redundancy	Support MW-Ring v1/v2 private ring network technology Support ERPS Support RSTP and is compatible with STP
Multicast	Support IGMP Snooping Support static multicast MAC address binding
Security Management	Support for WEB, TELNET, and SSH access control Support ACL access control list and 802.1X port authentication Support ring circuit detection, alarm, Email log
Management and Maintenance	Support PoE management, maximum power, priority configuration Support QoS, SNMPv1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, LLDP Support port mirror image, Ping Support user permission management, system logs, local/network time synchronization, daylight saving time Support online restart, factory reset, system upgrade, and configuration file upload/download Support MW-NMPv2, MixView, MaxView management
Switch capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	12.8G
Buffer Size	4.1Mbit
Mac Address Table	8K
Interface	
1000M Bypass Fiber Port	2x1000Base-X Gigabit fiber ports, single mode simplex fiber LC interface, with optional transmission distance (standard: 20km), Fiber port G1 and G2 support bypass function
100M PoE Copper Port	2x10/100Base-T(X) auto-sensing RJ45 PoE ports, full/half duplex, auto sensing MDI/MDI-X PoE complies with IEEE802.3af standard, with maximum single POE port output is 15W
100M Copper Port	4x10/100Base-T(X) auto-sensing RJ45 ports, full/half duplex, auto MDI/MDI-X, one of them is an intrinsically safe copper port, which can be used to connect intrinsically safe network equipment
CONSOLE	1 CONSOLE port, RS232 signal PH2.54 straight pin, used for device debugging

Specification

Button	Restart and factory reset
Status LED	Power LED Operation LED Port LED, PoE LED Port rate LEDS Support indicator external connection
Power	
Power Input	DC18~36V
Full Load Power	<5W@DC24V (No PoE device)
Connection	2x4 pin 2.54mm pitch pin header
Physical Characteristics	
Dimension	125×110×33.3mm
Installation	Embedded installation
Weight	About 0.25kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-5 (Surge): Level 2 IEC 61000-4-4 (EFT): Level 2
Certification	CE, FCC, RoHS

Dimensions

Unit:mm



Order Information

Standard Model	1000M Bypass Fiber Port	100M PoE Copper Port	100M Copper Port	Input Voltage
20127795	2	2	4	DC18~36V