20127795

4-Port Layer 2 Managed Embedded Industrial Ethernet Switch



- 2*100M fiber ports, 2*100M copper ports
- Fast ring redundancy with less than 20ms (MW-Ringv1/v2, STP/RSTP) improves system communication reliability
- Support DC 6-32V power input, comply with intrinsically safe circuit design standards
- Allowing the device to operate reliably in harsh industrial environments ranging from -40°C to +85°C

Product Description

20127795 is a managed embedded industrial ethernet switch, designed for industrial applications. It supports 2*100M SFP ports and 2*100M copper ports. This switch utilizes a store-and-forward mechanism, providing robust bandwidth processing capabilities while automatically detecting and reducing transmission errors, ensuring stable, reliable, and efficient data transfer. The product adopts industrial-grade components, high-standard system design, and production control. The hardware design allows it to dissipate heat effectively and operate reliably in a wide temperature range from -40°C to +70°C. It suitable for challenging work environments, ensuring stable communication performance.

20127795 series supports WEB network management functions and multiple network protocols, such as MW-Ringv1/v2, STP/RSTP, VLAN, QoS, storm suppression, port mirroring, static multicast MAC address binding, network diagnosis, alarm and system online Upgrades, etc. It can improve the performance, reliability and security of the network and meet the needs of various complex networks. The products have passed strict functional, high and low temperature, safety and EMC tests to meet the application requirements of complex networks and harsh industrial environments. They can be widely used in integrated energy, smart cities, rail transit, intelligent transportation, smart factories, industrial automation, etc.

Features and Benefits

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, with detection and prevention of broadcast and multicast packet storms to avoid network storms
- Support QoS (Quality of Service) to prioritize voice, video, and critical data transmission within network devices, addressing network congestion
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy division of multiple broadcast domains, enhancing network security
- Support static multicast MAC address binding to reduce the broadcast of multicast data in the network and save network resources.
- Support alarm function, including alarms such as port disconnection and ring network status
- Support port mirroring to collect data from port ingress and egress for network detection and fault management
- Support RSTP (Rapid Spanning Tree Protocol) compatible with STP (Spanning Tree Protocol) to eliminate network loops and enhance network reliability
- Supports port statistics, counts different types of data frames sent and received, and monitors port traffic.
- Support Ping to detect network connectivity
- Support guests and administrators, and management of users with different permissions
- Support device online restart, factory settings restoration and system upgrade

Specification

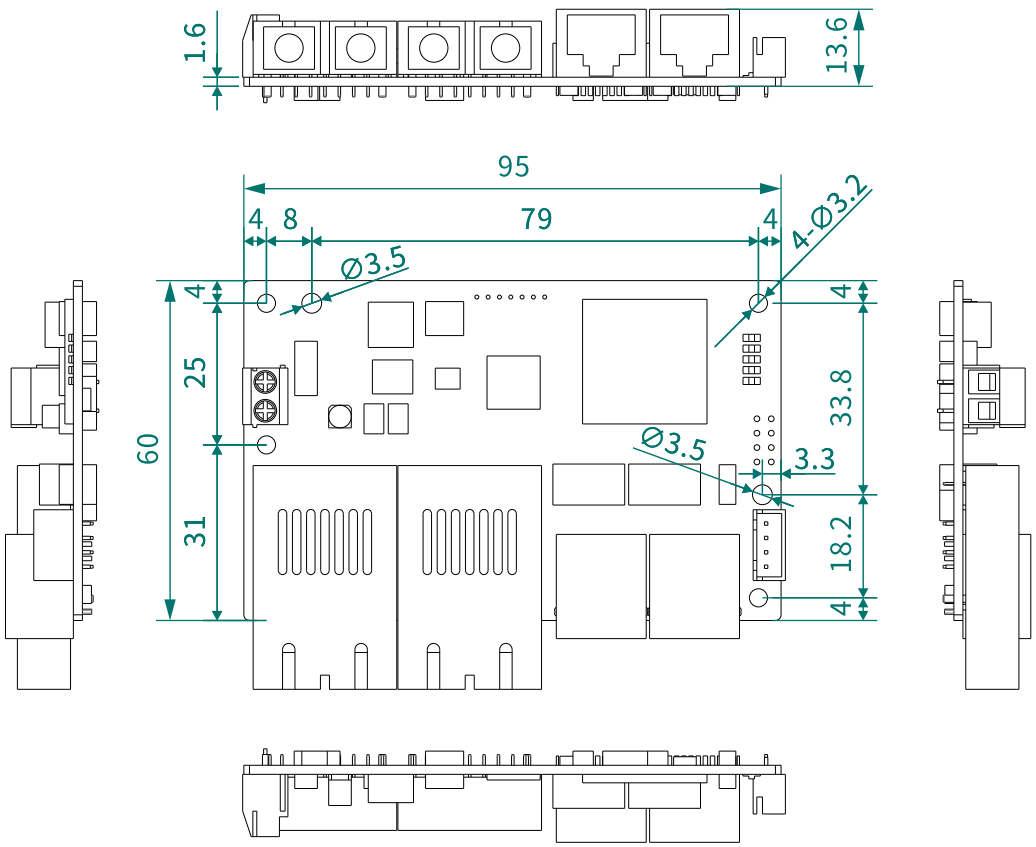
Software	
Switching	Support port configuration, port rate limiting, storm suppression, and port statistics Support 802.1Q VLAN, port-based VLAN Support MAC address aging and static MAC address binding
Redundancy	Support MW-Ringv1/v2 proprietary ring network technology Support RSTP (Rapid Spanning Tree Protocol) and is compatible with STP (Spanning Tree Protocol)
Multicast	Support static multicast MAC address binding
Management and Maintenance	Support static IP Support QoS (Quality of Service),802.1P/ DSCP/ port priority mapping, absolute and relative priority control Support port mirroring and ping, alarm Support user management with different permissions, online restart, factory reset, upgrade, and configuration file upload/download Support MixView, and MaxView management
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	1.2Gbps
Buffer Size	768kbit
MAC Table Size	2K
Interface	
Fiber Port	2*100Base-FX ports, supports single-mode/multi-mode, SC/FC/ST connector, wavelength and transmission distance optional
Copper Port	2*10/100Base-T(X) auto-sensing RJ45 copper ports, support auto MDI/ MDI-X connection, half and full duplex
Switch input	2 switching inputs, using 2.54mm pitch 4PIN sockets, which are wet contacts and can detect DC5~12V external power input status
Status LED	Power indicator, interface indicator, support external indicator
Power Supply	
Input Voltage	DC6-32V
Power Consumption	＜2.3W@DC12V

Specification

Power protection	Overcurrent protection, overvoltage protection, reverse connection protection, slow start, reverse
Connection	5.08mm pitch 2-pin terminal block
Physical Characteristics	
Dimensions	95*60*13.6 mm
Installations	Embedded installation
Weight	61g
Working Environment	
Operating Temperature	-40℃~+85℃
Storage Temperature	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Certification	CE, FCC, RoHS
EMC	IEC 61000-4-5 (Surge): Level 2 (Power supply: common mode ±1kV, differential mode ±0.5kV; Network port: common mode ±6kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 3 (power supply, network port: ±2kV

Dimensions

Unit: mm



Order Information

Standard Model	100M Fiber Port	100M Copper Port	Power Voltage
20127795	2	2	DC6~32V