

SWMD-H SERIES

FULL GIGABIT MANAGED INDUSTRIAL SWITCH



FULL GIGABIT

SELF-HEALING

5ms/50ms

POE MODEL

30W full-load

PROTECTION

IP40

DIN-RAIL

Description

SWMD-H series, based on a new generation of high-performance hardware and BDROS platform of CXR's independent intellectual property rights, supports ACL, QinQ, QoS and static routing. **SWMD-H** series with standard DIN-rail shell provides wide-voltage dual power input. **SWMD-H** series uses highly reliable industrial Ethernet ring network technology. The hardware-based algorithm can ensure that the self-healing time of each node is less than 5 milliseconds, and the self-healing time of the ring network is less than 50 milliseconds (typical value).

The POE model conforms to the IEEE 802.3af/at standard, and supports 30W full-load power supply, centralized power supply management, and POE terminal detection.

DIN rail clip. Its management protocols can be disabled so it becomes a totally secured black box.

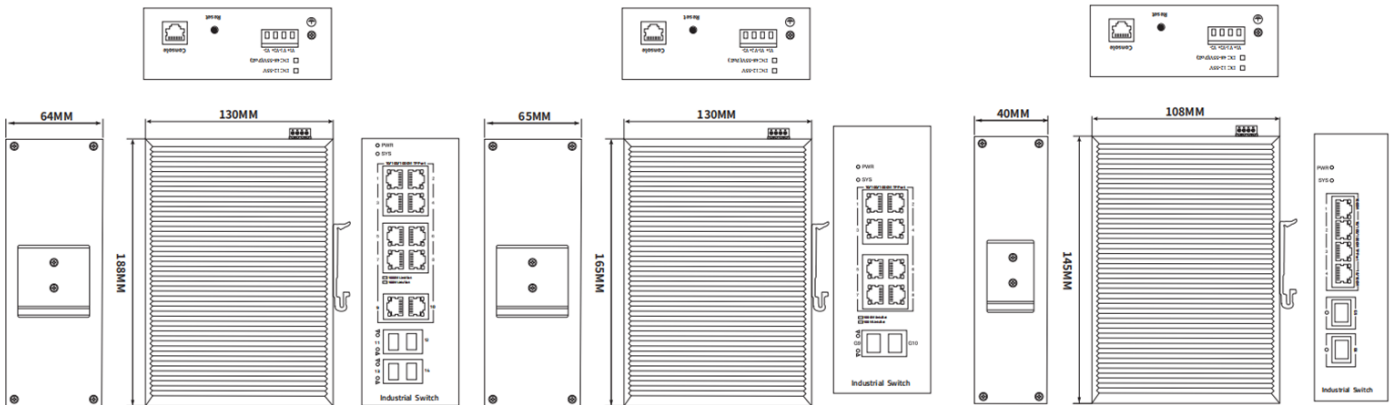
Applications

The reliable industrial design of SWMD-H series such as electromagnetic compatibility, anti-vibration and anti-shock capability, and IP40 protection, can be widely used in energy, transportation, industrial production, environmental protection, military industries.

Product Characteristics

- Lightning protection level: 6KV
- IP40 protection, industrial fanless thermal conduction.
- DIN-rail aluminum alloy shell, which is compact and convenient.
- Conforms to IEEE802.3af/at standard, maximum 30W POE power of single port.
- Intelligent standard 48V POE power supply, and self-negotiation power supply according to terminal type.
- Supports STP/EAPS/ERPS.
- Supports node self-healing time less than 5 milliseconds, and ring network self-healing time less than 50 milliseconds (typical value).
- Supports forming a self-healing ring network between any two ports, and supports multiple independent self-healing rings.
- Provides a data packet loss protection mechanism for quickly recovering from failures.
- Provides hierarchical bandwidth services through rate limiting and traffic shaping in the layer-2 QoS function.
- Supports simple network management protocol (SNMP) and cloud-based operating platform (COP).
- The mean time between failures exceeds 800,000 hours.

Hardware Structure



Product Specifications

Item	SWMD-H-4TG-2GSF	SWMD-H-8TG-2GSF	SWMD-H-10TG-2GSF
Power Input		Dual DC 12 ~ 55V	
Operating Temperature		-40 ~ 85 °C	
Item	SWMD-H-4TGPS-2GSF	SWMD-H-8TGPS-2GSF	SWMD-H-8TGPS-2TG-2GSF
PoE Power	120W	240W	240W
Power Input		Dual DC 48 ~ 55V	
Operating Temperature		-40 ~ 75 °C	
Switching Capacity		256Gbps	
Forwarding Rate		96Mpps	
Mac Switching	Static configuration and dynamic learning pf MAC address Check and clear MAC address Configuring of MAC address learning number Limit on MAC address learning number MAC address filtering function IEEE 802.1AE MacSec		
VLAN	4K VLAN entries GVRP QinQ Private VLAN Voice VLAN		

Product Specifications (suite)

Ring protection	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP) BPDU protection, root protection and ring protection EAPS ERPS
Multicast	IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave Multicast group policy and multicast number limit
IP Routing	Static routing
IPV6	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet IPv6 Neighbor Discovery Path MTU Discovery MLD v1/v2 MLD Snooping
DHCP	DHCP Relay DHCP Client DHCP Snooping
ACL	L2/L3/L4 ACL IPv4, IPv6 ACL VLAN ACL
QoS	Traffic classification of each field of L2/L3/L4 protocol headers CAR traffic control 802.1P/DSCP priority remark Multi-queuing algorithms such as SP, WRR or SP-WRR Tail-Drop, WRED Traffic supervision and traffic shaping
Security features	Identification and filtering of L2/L3/L4-based ACL Defend against DOS or TCP attacks Suppression of broadcast, multicast and unknown unicast packet Port isolation Port security, IP+MAC+port binding DHCP sooping, DHCP option82 IEEE 802.1x authentication Radius and BDTacacs+ authentication Command line hierarchical protection
Reliability	Static/LACP UDLD Ethernet OAM ISSU
Management and maintenance	Console, Telnet, SSH 2.0 Zero Touch Provisioning (ZTP) Browser-based WEB management SNMP v1/v2/v3 Upload and download files through TFTP Remote Network Monitoring (RMON)

Ordering Informations

Reference	Description
SWMD-H-4TG-2GSF	Hardened Layer 2 manageable switch, Rail-DIN format, 4 Giga ports, 2 ports Giga, VLAN tagging 802.1q, QoS 802.1p, RSTP/MSTP, HTTPS, Radius, SNMP V3, Dual input redundant power 12-55VDC, working temperature -40+85 °C, lightning protection level of 6KV; IP40
SWMD-H-8TG-2GSF	Hardened Layer 2 manageable switch, Rail-DIN format, 8 Giga ports, 2 ports Giga, VLAN tagging 802.1q, QoS 802.1p, RSTP/MSTP, HTTPS, Radius, SNMP V3, Dual input redundant power 12-55VDC, working temperature -40+85 °C, lightning protection level of 6KV; IP40
SWMD-H-10TG-4GSF	Hardened Layer 2 manageable switch, Rail-DIN format, 10 Giga ports, 4 ports Giga, VLAN tagging 802.1q, QoS 802.1p, RSTP/MSTP, HTTPS, Radius, SNMP V3, Dual input redundant power 12-55VDC, working temperature -40+85 °C, lightning protection level of 6KV; IP40
SWMD-H-4TGPS-2GSF	Hardened Layer 2 manageable switch, Rail-DIN format, 4 Giga POE+ ports, 2 ports Giga, VLAN tagging 802.1q, QoS 802.1p, RSTP/MSTP, HTTPS, Radius, SNMP V3, Dual input redundant power 12-55VDC, working temperature -40+85 °C, lightning protection level of 6KV; IP40. 120W Budget POE
SWMD-H-8TGPS-2GSF	Hardened Layer 2 manageable switch, Rail-DIN format, 8 Giga POE+ ports, 2 ports Giga, VLAN tagging 802.1q, QoS 802.1p, RSTP/MSTP, HTTPS, Radius, SNMP V3, Dual input redundant power 12-55VDC, working temperature -40+85 °C, lightning protection level of 6KV; IP40. 240W Budget POE
SWMD-H-8TGPS-2TG-2GSF	Hardened Layer 2 manageable switch, Rail-DIN format, 8 Giga POE+ ports + 2 ports RJ45 Giga, 2 ports Giga, VLAN tagging 802.1q, QoS 802.1p, RSTP/MSTP, HTTPS, Radius, SNMP V3, Dual input redundant power 12-55VDC, working temperature -40+85 °C, lightning protection level of 6KV; IP40. 240W Budget POE



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