

SWMD-H-8TG-2GSF-L

FULL GIGABIT MANAGED L3-LITE INDUSTRIAL SWITCH

IP40 PROTECTION
6KV LIGHTNING
PROTECTION



VARIED SERVICE
CHARACTERISTICS
VERSATILE IPV6 SO-
LUTION COMPLETE
SECURITY ME-
CHANISM

ADVANCED HARD-
WARE ARCHITEC-
TURE AND IN-
DUSTRY-LEADING
PORT DENSITY
MODEL

WIDE-RANGE
WORKING TEMPE-
RATURE 800,000
HOURS MTBF

Description

SWMD-H-8TG-2GSF-L is based on a new generation of high-performance hardware and ROS platform of CXR's independent intellectual property rights, supports ACL, QinQ, QoS and static routing. SWMD-H-8TG-2GSF-L with standard DIN-rail shell provides wide-voltage dual power input. SWMD-H-8TG-2GSF-L 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 reliable industrial design of SWMD-H-8TG-2GSF-L 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 aluminium alloy shell, which is compact and convenient.
- 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.
- The mean time between failures exceeds 800,000 hours.

Product Specifications

Item		SWMD-H-8TG-2GSF-L
Gigabit Interface	RJ45	8
	SFP	2
Console (RJ45)		1
Backplane (Gbps)		20
Forwarding rate (Mpps)		15
Chassis	Dimensions	138*108*44 (W*D*H) (mm)
	Weight	0.6 (KG) (empty)
Package	Dimensions	245*190*60 (W*D*H) (mm)
	Weight	0.8 (KG)
Power consumption	No-load	<12W
	Full-load	18W
Power supply		Dual DC 12~55V (Phoenix) DC 12V (Jack)
Total output BTU (1000BTU/H=293W)		61.43
MTBF (H)		>800.000
Forwarding mode		Store-forward
Flash (MB)		16
DRAM (MB)		128
MAC		8K
Buffer size (Mb)		4.1
Jumbo frame		9K
Total SVI		10

Features

VLAN	<ul style="list-style-type: none"> • 4K VLAN entries • GVRP • QinQ • Private VLAN • Voice VLAN
Ring protection	<ul style="list-style-type: none"> • 802.1D (STP), 802.1W (RSTP), 802.1S (MSTP) • BPDU protection, root protection and ring protection • EAPS • G.8032 ERPS
Multicast	<ul style="list-style-type: none"> • MVR • IGMP Snooping • IGMP Fast Leave • Multicast group policy and multicast number limit
IP Routing	<ul style="list-style-type: none"> • Static route • RIP, OSPF • 128 routing table
QoS	<ul style="list-style-type: none"> • CAR traffic control • 802.1P/DSCP priority remark • Multiple queuing algorithms such as SP, WRR or SP+WRR • IP ACL/ANY/VLAN/COS/ • DSCP/IP Preference based QoS • Traffic supervision and traffic shaping • Drop, Redirect
Security	<ul style="list-style-type: none"> • Identification and filtering of L2/L3/ L4-based ACL • Suppression of broadcast, multicast and unknown unicast packet • Port isolation • Port security, IP+MAC+port binding • DHCP snooping, DHCP option82 • IEEE 802.1x authentication • Radius and TACACS+ • Command line hierarchical protection
DHCP	<ul style="list-style-type: none"> • DHCP Server/Client/Relay • DHCP Snooping
Reliability	<ul style="list-style-type: none"> • Static/LACP LAG • Ethernet OAM • ISSU • Backup-link • VRRP
Management and maintenance	<ul style="list-style-type: none"> • Console, Telnet, SSH 2.0 • Zero Touch Provisioning (ZTP) • HTTP/HTTPS • SNMP v1/v2/v3 • Upload and download files through TFTP/FTP • Remote Network Monitoring (RMON) • Syslog • SPAN, RSPAN
IPv6	<ul style="list-style-type: none"> • ICMPv6, DHCPv6, ACLv6, IPv6 Telnet • IPv6 Neighbour Discovery • Path MTU Discovery • MLD Snooping
ACL	<ul style="list-style-type: none"> • VLAN ACL • L2~4 ACL • IPv4, IPv6 ACL

Ordering Informations

Reference	Description
SWMD-H-8TG-2GSF-L	8-Port Gigabit RJ45 + 2-Port Gigabit SFP L3-lite Managed Industrial Switch (dual 12~55V DC pheonix power input, single 12V DC jack power input; operating temperature: -40~85 °C; lightning protection level of 6KV; IP40; DIN-rail installation)



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