



SWMD-H-24TG-4GSF-L

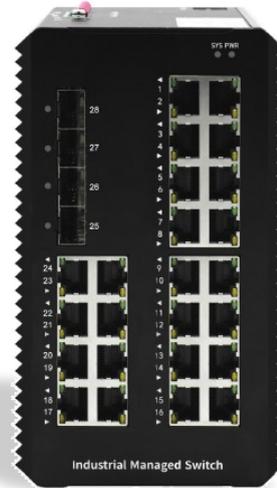
FULL GIGABIT MANAGED L3-LITE INDUSTRIAL SWITCH

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-24TG-4GSF-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-24TG-4GSF-L with standard DIN-rail shell provides wide-voltage dual power input. SWMD-H-24TG-4GSF-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-24TG-4GSF-L such as electromagnetic compatibility, anti-vibration and anti-shock capability, and IP40 protection. It is widely applicable in industries such as energy, transportation, industrial manufacturing, environmental protection and defense.

Product Characteristics

- IP40 protection, industrial fanless thermal conduction.
- Supports industrial Ethernet ringd with STP/RSTP/MSTP
- Industrial Ethernet ring network supports self-healing node intervals of less than 5 milliseconds, with ring self-healing times of 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.
- Delivers tiered bandwidth services in Ethernet services through rate limiting and traffic shaping within Layer 2 QoS features.
- Supports SNMP network management platforms.
- Mean Time Between Failures (MTBF) exceeds 800,000 hours.

Product Specifications

Item	SWMD-H-8TG-2GSF-L	
Switching Capacity	56Gbps	
Forwarding rate	42Mpps	
Dimensions	186.6*122.7*86mm (W*D*H)	
Power input	Dual industrial-grade DC 12~55VDC redundant input	
Operating environment	Temperature	-40~+75 °C
	Humidity	5%~95% non-condensing
Storage environment	Temperature	-40~+85 °C
	Humidity	5%~95% non-condensing
Standards	IEEE 802.1 Working Group IEEE 802.3 Working Group IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3z Gigabit 1000BASE-SX/LX IEEE 802.3ab Gigabit 1000BASE-T IEEE 802.3x flow control and back pressure IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1ad Q-in-Q IEEE 802.1X port authentication network control IEEE 802.1ab LLDP and LLDP-MED IEEE 802.3ah OAM IEEE 802.3az EEE(Energy Efficient Ethernet) RFC 768 UDP RFC 793 TFTP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP RFC 1112 IGMP v1 RFC 2236 IGMP v2 RFC 3376 IGMP v3 RFC 2710 MLD v1 RFC 2328 OSPF v2 RFC 1058 RIP v1 RFC 2453 RIP v2	

MAC Switching	<ul style="list-style-type: none"> 8K MAC entries Static configuration and dynamic MAC learning MAC browsing and removal Configurable aging time of the MAC address Limited number of learnable MAC addresses MAC filtration Black-hole MAC list
Jumbo frame	9K
VLAN	<ul style="list-style-type: none"> 4K VLAN IDs, 4094 active VLAN, 64 SVI GVRP 1:1 and N:1 VLAN Mapping QinQ and selective QinQ Private VLAN Voice-VLAN
STP	<ul style="list-style-type: none"> 802.1d STP, 802.1w RSTP, 802.1s MSTP BPDU protection, root protection and ring protection L2PT for BPDU
Multicast	<ul style="list-style-type: none"> IGMP v1/v2/v3 IGMP Snooping IGMP Fast Leave Multicast group policy and multicast number limit Multicast filtering MVR snooping in certain port and VLAN
IPv4	Static routing, RIP, OSPF
IPv6	<ul style="list-style-type: none"> ICMPv6, DHCPv6, ACLv6, IPv6 Telnet, IPv6 QoS IPv6 Neighbor Discovery Path MTU Discovery MLD Snooping
DHCP	DHCP server, client, relay, snooping
ACL	<ul style="list-style-type: none"> L2-4 ACL IPv4, IPv6 ACL VLAN ACL
QoS	<ul style="list-style-type: none"> Traffic classification of port/L2~4 protocol headers/VLAN/CoS/DSCP CAR traffic control 802.1P/DSCP priority mapping and remark Multiple queuing algorithms such as SP, WRR or SP+WRR Tail-Drop, WRED Traffic supervision and traffic shaping 8 queues per port

Security	<p>L2~L4 ingress/egress ACL Anti-DOS/IP spoofing/TCP/ping/SYN/ICMP flood attacks Broadcast/multicast/unknown-unicast storm-control Port isolation Port Security, MAC address limitation, IP+MAC+port binding DHCP Snooping, DHCP Option 82 DAI(Dynamic ARP Inspection) IPSG(IP Source Guard) IEEE 802.1x certification MAC-based authentication AAA Radius, TACACS+ Multiple user privileges</p>
Reliability	<p>Static and LACP link aggregation EAPS, ERPS ISSU</p>
Management	<p>CLI: Console, Telnet, SSHv1/2 Web-GUI: HTTP, HTTPS/SSL Reset button SNMP v1/v2c/v3, RMON, SNMP alarm/inform/traps Upload and download of FTP/TFTP files Debugging Syslog for alarm/notification/command/debug NTP SPAN, RSPAN (1:1 and N:1 mirror) LLDP, LLDP-MED ZTP (Zero Touch Provisioning) Optical DDM Ethernet cable diagnosis</p>

Ordering Informations

Reference	Description
SWMD-H-824TG-4GSF-L	24-Port Gigabit RJ45 + 4-Port Gigabit SFP L3-lite Managed Industrial Switch (industrial-grade redundant dual DC 12 - 55V input; operating temperature - 40~75 °C; protection class IP40; DIN - rail mounting)



CXR
 T +33 (0) 237 62 88 00
www.cxr.com

17 Rue de l'Ornette 28410 Abondant France
contact@cxr.com

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