

EN 50155 L2/L3

SWMH-3110-PM series

Industrial PoE Ethernet Switch

10-port M12 Managed



SWMH-3110-PM series are a ruggedized switching platform that complies with the most demanding IP67 industrial standards, designed for industrial applications requiring completely potted to protect against water, shock and vibration. SWMH-3110-PM series provides 8 Fast Ethernet M12 PoE ports and 2 Giga Cooper interfaces. With the managed features, users are easily to prioritize, partition and organize user's network and provide reliable and high quality services.

Industrial Ruggedized Managed PoE Ethernet Switches

Features

EN 50155 Compliant

- Provide 8 Fast Ethernet M12 D-code Copper ports, with IEEE 802.3af/at compliant PoE PSE functionality
- Provide 2 Gigabit Ethernet M12 X-code Copper ports, with bypass functionality
- 9K Jumbo frames
- L2 & L3 wire-speed switching engine
- 8K MAC forwarding addresses
- Network redundant LACP, Spanning tree STP, RSTP & MSTP, and quick Ring fail-over protection (< 20 ms)

Port-based /tag-based VLAN, IEEE 802.1ad/QinQ VLAN, Add/remove VLAN tags,

- Multicasting support IGMP v1/v2, proxy & snooping
- Ethernet port mirroring diagnostic
- Isolated power inputs with 24 to 110 VDC power supply range
- -40 to 70°C operating temperature range
- IP42 & IP67 protection options
- industrial-hardened, wall-mountable form factor





IP67 option

Specifications

Ethernet

Operating mode Store and forward, L2 wire-speed/non-blocking switching engine

MAC addresses 16K Jumbo frames 9K Bytes

Copper interface

Ethernet M12, D-coded, Female; M12 X-code, Female

MDI/MDIX Auto-crossover Support straight or cross wired cables
Auto-negotiating 10/100 or 10/100/1000 Mbps speed auto-negotiation; Full and half

duplex

Network Redundancy

Fast failover protection rings Link loss recovery < 20ms

Single & Multiple rings supported

Spanning Tree Protocol IEEE 802.1D STP, IEEE 802.1w RSTP, IEEE 802.1s MSTP

Port Trunk with LACP Static trunk or Dynamic via LACP (Link Aggregation Control Protocol)

Bridge, VLANs & Protocols

Flow control IEEE 802.3x (Full Duplex) and Back-Pressure(Half Duplex)

Max VLANs 256

VLAN Types Port-based VLANs

IEEE 802.1Q tag-based VLANs
IEEE 802.1ad Double Tagging (Q in Q)

Multicast protocols IGMP v1, v2 with up to 255 multicast groups

IGMP snooping and querying Immediate leave and leave proxy

Throttling and filtering

LLDP IEEE 802.1ab Link layer Discovery Protocol (LLDP)

Traffic management & QoS

Priority IEEE 802.1p QoS

Number of queues per port

Scheduling schemes SPQ, WRR

Traffic Shaper port-based shaping

Security

Port security IP and MAC-based access control

IEEE 802.1X authentication Network Access Control

Multicast/Broadcast/Flooding Storm Control

Storm Control

L3 routing (L3 model only) Static routing, RIPv1/RIPv2, OSPF (*)

VRRP (*)

NAT (Network Address Translation)

Management

User Management interfaces Cisco-like CLI (command line interface)

WEB-based Management

SNMP v1, v2c Telnet (5 sessions)

Management Security HTTPs, SSH

Upgrade & Restore FTP for Configuration Import/Export,

FTP for Firmware Upgrade

Diagnostic Syslog

Mirroring

Ethernet Copper connection diagnostic tool RFC 1757 RMON 1,2,3,9; RFC 2674 Q-Bridge MIB

RFC-1213 MIB-II; RFC-1493 Bridge MIB; RFC 2233 IF MIB

DHCP Client SNTP Yes

System status Device info/status; Ethernet port status

Power

MIBs

Power Input 24-110 VDC, M23, Male

Reverse power protection Yes



SWMH-3110-PM series M12 Ruggedized Ethernet Switch

Transient protection > 15,000 watts peak

Input Current 7 A @ 24 VDC; 1.5 A @110VDC

Indicators

Power Status indication Indication of power input status

Ethernet port indication Link & Speed PoE status indication PoE connection

Ring protection indication Ring role and Ring status

Environmental & Compliances

Operating temperature range -40 to +70°C (cold startup at -40°C)

Storage temperature range -40 to +85 °CHumidity (non-condensing) 5 to 95% RH

Vibration, shock & freefall IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-32

Certification compliance CE/FCC; EN-50121-4, EN 50155

EMC FCC Part 15 Subpart B Class A, CISPR 22 (EN55022) Class A

EN 61000-4-2, -3, -4, -5, -6 (Level 3), EN 61000-4-8, EN 61000-4-11

RoHS and WEEE RoHS (Pb free) and WEEE compliant

MTBF > 25 years

Mechanical

Ingress protection IP42 / IP67 options Installation option Wall mounting

Dimension 210 mm x 200 mm x 80.4 mm

SWMH-3110-PM series Ruggedized managed PoE switch information

Available Models	Description	Ethernet Port	
		10/100Base-T(X) PoE M12 D-code	10/100/1000Base-T(X) M12 X-code
SWMH-3110-PM-D-42	Industrial 10-port Ruggedized L2 Managed PoE Ethernet Switch	8	2
SWMH-3110-PM-D-67	Industrial 10-port Ruggedized L3 Managed PoE Ethernet Switch	8	2



CXR Anderson Jacobson T +33 (0) 237 62 87 90

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