

# SWMDL-H-8GPSP-4USF

## MANAGED INDUSTRIAL POE SWITCH

8x10/100/1000BASE-T 60W POE PORTS  
4x100/1000BASE-X SFP PORTS



PoE Budget 60W Max. on  
Port 1~8, 480W Max. Total

Support PoE IEEE 802.3af/at

Support 10K Jumbo Frames

8k MAC Forwarding  
Addresses

Network Redundant LACP,  
Spanning Tree STP, RSTP  
and Fast Ring, Fail-Over  
Protection (<50ms)

Port-Based / Tag-Based  
VLAN, Add/Remove VLAN  
Tags

Broadcast Storm Control

Dual Power Input  
(45~55VDC) & Reverse  
Power Protection

DIN-Rail and Wall Mount  
(optional)  
Extended Operation  
Temperature -40°C~75°C

All Aluminium Housing for  
Excellent Heat Dissipation  
+/- 6KV Surge Protection on  
PoE Ports

## Description

**CXR SWMDL-H-8GPSP-4USF** Industrial PoE Switch is the Fast & Gigabit Ethernet 10/100/1000Base-T to 100/1000Base-X Industrial PoE Switch.

The **SWMDL-H-8GPSP-4USF** switches the traditional twist-pair RJ-45 cable into various fiber optics media. It offers easy management of uplink port (4 x port fiber). The fiber optical port of **SWMDL-H-8GPSP-4USF** can support various connection distances via multi-mode fiber, single-mode fiber or Bi-directional single-mode fiber for the deployment to the control room, warehouse or factory.

The **SWMDL-H-8GPSP-4USF** Industrial PoE Switch is designed for deployment at industrial sites. With DIN-rail mounting, you can easily mount the Industrial PoE Switch at your sites such as factory or warehouse. The terminal blocks provide power redundancy to prevent any possible power outage and digital input/output to serve as an alarm.

The **SWMDL-H-8GPSP-4USF** Industrial PoE Switch provides easy management ways via telnet CLI and SNMP. Combined with rich L2+ features and reliable management functions, the **SWMDL-H-8GPSP-4USF** will significantly help save OPEX (operational cost) for network administrators.

## Applications

- Point-to-Point Fiber Connectivity under Harsh Surroundings;
- Long-Distance IP Surveillance Network Deployment;
- Factory, Parking Lot, ITS, Smart City Network Deployment

# Specifications

## Interface

- Uplink Port (Type):  
4 x 100/1000Base-X SFP
- LAN Port (Type):  
8 x 10/100/1000Base-T RJ-45
- Console Port (Type):  
1 x RS-232 Port (RJ-45)

## Power over Ethernet

- 8 x 60W PoE++ (Compatible with 802.3af/at)
- Max. 60Watts per port
- 480 Watts PoE Budget

## Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX/FX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3z 1000Base-X
- IEEE 802.3az EEE
- IEEE 802.3x Flow Control
- IEEE 802.3ad Link Aggregation
- IEEE 802.1p Priority
- IEEE 802.1q Tag VLAN
- IEEE 802.1d STP
- IEEE 802.1w RSTP
- IEEE 802.1x Authentication Network Access control
- IEEE 802.3af Power over Ethernet
- IEEE 802.3at Power over Ethernet Enhancements

## H/W Specification

- MAC Address table: 8K
- Non-Blocking Switching Fabric: 24Gbps
- Jumbo frame: 10K Bytes
- Store and Forward Switching Mechanism
- Auto-Cross Over for MDI/MDUX in TP Ports
- Auto-Negotiation in TP Ports
- Full/Half Duplex Mode Operation
- 1 x Digital Output (Alarm Relay)
- 1 x Digital Input

## LED

- P1, P2, STA, ALM, Master, Ring, EXP, Link/ACT, PoE

## Forward / Filter Rate

- 10M: 14,880/14,880pps
- 100M: 148,800/148,800pps
- 1000M: 1,488,000/1,488,000pps

## Layer 2 Switch Features

### VLAN

- IEEE 802.1q tag VLAN
- VLAN concurrent groups: 2K VLAN Groups
- Port Based VLAN

### QoS

- QoS based on 802.1p CoS, VLAN and DSCP
- QoS Priority Queues: 8 Queues
- SPQ and WRR
- Port based rate limit

### Network Redundancy

- STP IEEE 802.1d
- RSTP IEEE 802.1w
- CTS Fast Ring
- LACP algorithm of source / destination IP, MAC, L4 Port
- Static Port Trunking
- Up to 5 Aggregation Groups, 6 ports per Group

### Multicast

- IGMP Snooping v1/v2
- IGMP Fast Leave
- Static Multicast Configuration

### Security

- 802.1x Port Base Access Control
- 802.1x RADIUS Authentication
- 802.1x MAC Authentication Bypass

## Management

- SNMP v1/v2c/v3
- WEB/Telnet/SSH/CLI Interface
- Text Base CLI Configure file
- Port Configuration Speed/duplex/flow control/Description
- SNTP
- Static MAC address Table
- Storm Control (Unicast/Multicast/Broadcast)\*

## Maintenance

### Diagnostic

- Event log
- Syslog
- SFP SFF-8472 DDMI monitor

### Upgrade/Restore

- HTTP/FTP/TFTP Firmware & configuration update
- DHCP Auto-provision

### Monitoring

- Switch Port Status, Traffic, Packet Error, Packet Analysis Statics

## Power Requirement

- Input DC: 48~55VDC
- Redundant Input Terminals
- Caution: Use 14AWG or better powering wire**
- Power Consumption: 495W
- PoE Budget: 480W

## Environmental Condition

- Operation: -40°C ~ 75°C
- Storage Temperature: -40°C ~ 85°C
- Humidity: 5%~90%, Non-condensing

## Dimension & Weight

- Size: 80 x 135 x 200 mm (W x D x H)
- Weight: 1.84 Kg
- Housing: Aluminum, IP30

## EMC/Safety

- FCC Class A, CE

\* Coming Soon

# Ordering Information

Reference	Industrial Managed PoE Switch
SWMDL-H-8GPSP-4USF	Layer 2 manageable DIN-Rail switch, hardened -40 to +75°C operating temperature, 8x 10/100/1000BaseT PoE++ PSE ports 60W 802.3at, 4x Gigabit SFP w/o SFP, VLAN tagging 802.1q, Q-in-Q, QoS 802.1p, Trunking, RSTP, SNMP V3, redundant input power terminal bloc 45-55Vdc



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