SWMDL-H-8GPS-2CB-B

MANAGED INDUSTRIAL POE SWITCH
8x10/100/1000MBPS 30W POE RJ45 & 2 COMBO

10xGbE switch
10 RJ45 Copper Ports & SFP Ports (8x30W PoE Port)
Support PoE IEEE 802.3af/at

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Support 9K Jumbo Frames

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L2 Wired-speed Switching Engine

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16k MAC Forwarding Adresses

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

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Port-Based / Tag-Based VLAN, IEEE802.1ad/Q-in-Q VLAN, ADD/Remove VLAN Tags

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Multicast/Broadcast/ Flooding Storm Control

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Dual Power Input (24~54VDC) & Reverse Power Protection

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Din Rail Mount Extended Operation Temperature –40°C~75°C

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+/- 6KV Surge Protection on PoE Ports

Description

CXR **SWMDL-H-8GPS-2CB-B** Industrial PoE Switch are the Fast & Gigabit Ethernet 10/100/1000Base-X Industrial PoE Switch. It switches the traditionally twisted-pair RJ-45 cable into various fiber optics media. SWMDL-H offer easy management of uplink port (10/100/1000Mbps RJ-45 + 100/1000 SFP Slot). The fiber optical port of SWMDL-H can support various connection distances via multi-mode, single-mode fiber or Bi-directional single-mode fiber for the deployment to the control room, warehouse or factory.

The **SWMDL-H-8GPS-2CB-B** industrial PoE switch are designed for deployment at industrial sites. With Din-Rail mounting, you can easily mount the Industrial Switch at your sites such as factory or warehouse. The two terminal Blocks can provide power redundancy to prevent any possible power outage and digital output to serve as an alarm.

The **SWMDL-H-8GPS-2CB-B** industrial PoE switch provide perfect solution for delivering power over Ethernet for IP cameras, WI-FI access Point or IP Phones at an extended operating temperature (-40°C~75°C) to withstand against harsh environment for better performance. **SWMDL-H-8GPS-2CB-B** are fully compliant with IEEE standards such as IEEE802.3/803.3u/802.3ab/802.3az to ensure interoperability between network devices.

The **SWMDL-H-8GPS-2CB-B** industrial PoE switch provide easy management ways via Telnet CLI and SNMP. Combined with rich L2+ features and reliable management functions, the **SWMDL-H-8GPS-2CB-B** will significantly help save OPEX (operational cost) for nertwork 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):
  2 x 100/1000Mbps Combo (SFP + RJ45)
-LAN Port (Type):
  8 x 10/100/1000Base-T RJ-45
-Console Port (Type):
  1 x RS-232 Port (RJ-45)
-1 x USB Port

■Power over Ethernet
-8 x 802.3af/at 30W RJ-45
-120 Watts PoE Budget(24-50 VDC input)
-240 Watts PoE Budget(50-54 VDC input)

■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 : 16K
Non-Blocking Switching Fabric : 20Gbps
Jumbo frame : 9K Bytes
Store and Forward Switching Mechanism
Auto-Cross Over for MDI/MDIX in TP Ports
Auto-Negotiation in TP Ports
Full/Half Duplex Mode Operation
1 x Digital Output (Alarm Relay)

■LED
-P1, P2, STA, ALM, Master, Ring, 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: 4K 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 MAC Quotient
-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
-DHCP Snooping
-Loop Detection
-Storm Control

■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

■Maintenance
Diagnostic
-Event log
-Syslog
-SFP SFF-8472 DDMI monitor
-System CPU loading and Memory usage
-Temperature 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: 24~54VDC
Redundant Input Terminals
Power Consumption: 255W
PoE Budget:
-120W(24-50 VDC input)
-240W(50-54 VDC input)

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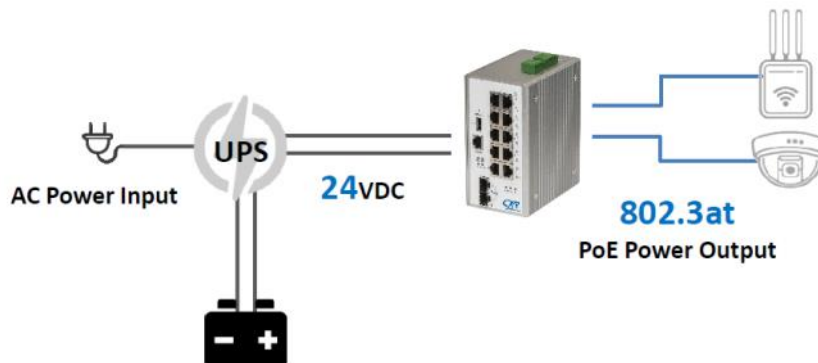Humidity:5%~90%, Non-condensing

■ Dimension & Weight
Size: 88 x 110 x 135 mm (W x D x H)
Weight: 1.12 Kg
Housing: Aluminum, IP30

■ EMC/Safety
FCC Class A, CE
Shock: IEC 60068-2-27
Freefall: IEC 60068-2-32
Vibration: IEC 60068-2-6

Application

Power Booster Technology

AC Power Input

UPS

24VDC

802.3at
PoE Power Output

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The information contained in this document are not contractual. CXR continuously improves its products. Specifications are subject to change without notice.

Product References

Reference	Industrial Managed PoE Switch
SWMDL-H-8GPS-2CB-B	Layer2 manageable DIN-Rail switch,hardened -40 to +75°C operating temperature, 8x 10/100/1000BaseT PoE PSE ports 30W 802.3at, 2x Gigabit universal combo ports RJ45 and SFP w/o SFP, VLAN tagging 802.1q, Q-in-Q, ,QoS 802.1p, trunking, RSTP, SNMP V3, redundant input power terminal bloc 24-57Vcc with Booster

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