# SWMDL-H-8TGX-2USF

Version 1.0

## MANAGED INDUSTRIAL SWITCH
### 8x10/100/1000MBPS RJ45 & 2 COMBO UPLINK (10/100/1000 RJ45 & 100/1000 SFP SLOT)

10xGbE switch
10 RJ45 Copper Ports & SFP Ports
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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 (12~54VDC) & Reverse Power Protection
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Din Rail Mount Extended Operation Temperature –40°C~75°C

## Description

CXR SWMDL-H-8TGX-2USF Industrial Switch are the Fast & Gigabit Ethernet 10/100/1000Base-X Industrial 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-8TGX-2USF industrial 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-8TGX-2USF industrial switch provide an extended operating temperature (-40°C~75°C) to withstand against harsh environment for better performance. SWMDL-H-8TGX-2USF 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-8TGX-2USF industrial switch provide easy management ways via Telnet CLI and SNMP. To fulfill the requirement of mass deploymen, the device also support DHCP autoprovision mechanism to allow the network administrator to manage the device configuration automatically and dynamically.

## 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
-RJ-45:
  8 x 10/100/1000Mbps RJ-45
-RJ-45/SFP Combo:
  2 x Combo Ports
  (10/100/1000 RJ-45 + 100/1000 SFP Slot)
-USB: 1 x USB2.0 (Host Type A)
-Console: 1 x RS-232 (RJ-45)

## ■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 Port based Network Access Control

## ■H/W Specification
MAC Address Table: 16K
Non-blocking Switching Fabric: 20Gbps
Jumbo Frame: 9K Bytes
Store and Forward Switching Mechanism
Auto Crossover for MDI/MDI-X in TP Port
Auto-negotiation in TP Port
Full/Half Duplex Mode Operation
VLAN ID: 4K
1 Digital Output(Alarm Relay)

## ■LED
P1, P2, ALM, RM, R, Status, LAN, F/O

## ■Forward / Filter Rate
10M : 14,880/14,880pps
100M : 148,800/148,800pps
1000M : 1,488,000/1,488,000pps

## ■Switch Features
IEEE 802.1q Tag Based VLAN
QoS Based on P-bit, VLAN
Broadcast Storm Control
Port Mirroring
IGMP v1/v2
Port Trunking
Loop Detection

## ■Traffic Management
QoS, SPQ, WRR

## ■Network Management
Telnet CLI
SNMP v1/v2c/v3
DHCP Client
FTP/TFTP/HTTP/USB Firmware Upgrade
Dual Image
SNTP
SSHv2
Syslog

## ■Network Redundancy
STP/RSTP, Fast Ring

## ■Installation Type
DIN-Rail Mount, Wall Mount (Optional)

## ■Power Requirement
-DC Input:
 Redundant Input Terminals
-Input Voltage:
 DC: 12 ~ 54VDC
-Power Consumption:
 DC: 15W

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

## ■Dimension & Weight
Size : 73 x 110 x 135 mm (W x D x H)
Weight : 0.92 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

# Product References

| Reference | Industrial Managed Switch |
|---|---|
| **SWMDL-H-8TGX-2USF** | Layer2 manageable DIN-Rail switch,hardened -20 to +75°C working temperature, 8 x 10/100/1000BaseT ports, 2 universal SFP 100FX/GSX/GLX SFP port w/o  SFP, VLAN tagging 802.1q, Q-in-Q, ,QoS 802.1p, trunking, RSTP, SNMP V2c, redundant input power |

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