Smart solutions for smart networks

Version 1.1

SWMDH-7512-PoE

Industrial PoE Managed Switch

Description

802.3AT

ERPS RING

IEC62443-4-2

PROFINET CC-B V2.33 CERTIFIED

The SWMDH-7512-PoE Series is a highly reliable and fault-tolerant Industrial Managed PoE Ethernet Switch. It equips up to eight 10/100BASE-T(X) RJ-45 ports and up to four 10/100/1000BASE-T(X)/FX RJ-45 and SFP ports. With its high performance switching capacity, SWMDH-7512-PoE Series provides network redundant self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution.

With a Multifunctional web dashboard, SWMDH-7512-PoE Series offers intelligent features such as Quality of service (QoS), Virtual LAN (VLAN), IGMP, Port mirroring and security. To prevent network intrusions, it is necessary to have a good accessing control mechanism that can identify, authenticate and authorize users. SWMDH-7512-PoE support user account, password policy, and authentication interface managements functions that comply with IEC62443 standard.

The SWMDH-7512-PoE Series is designed for Industrial rugged applications. It equips a 5-pins terminal block to provide dual redundant power inputs with Reverse Polarity Protection and two sets of relay which allows field engineers to build up a stand-alone fault alarm system. Its IP30 housing protection, wide operating temperature of -20 to 70°C and DIN-Rail mounting capacities are liable to do most industrial filed applications.

Being Profinet CC-B v2.33 certified, this switch Series is Automation and IoT ready. Profinet allows wired and wireless combinations for an array of connectivity options, providing a more effective backbone for your automation operations.

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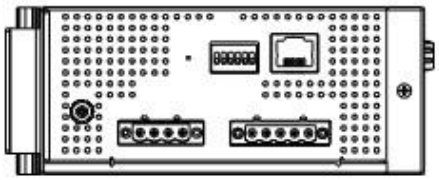
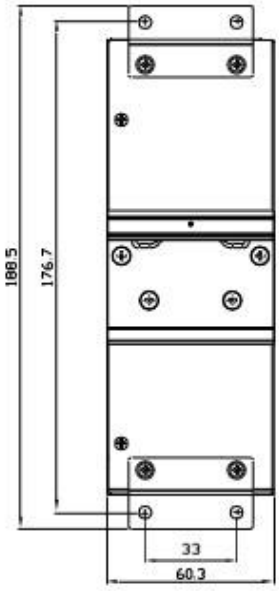
Dimensions & Layout

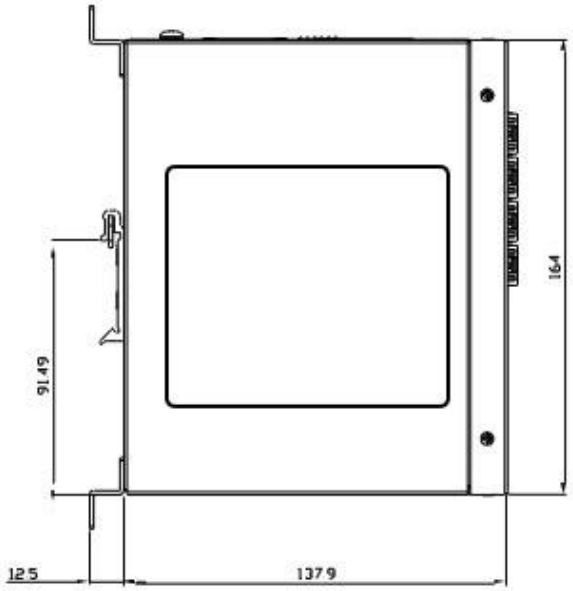
Top View



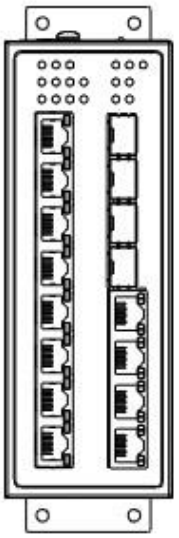
Rear View



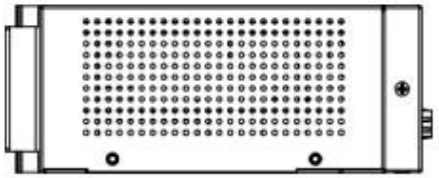
Side View



Front View



Bottom View



Specifications

Switch Properties	
Priority Queues	8
Max. number of Available VLANs	256
VLAN ID Range	VID 1 to 4094
Static IGMP Groups	256
Dynamic IGMP Groups	256
Mac Table Size	16k
Packet Buffer Size	12Mbit

Ethernet	
Standard	IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X) and 100Base-FX IEEE 802.3ab for 1000BaseT(X) IEEE 802.3z for 1000BaseX IEEE 802.3ae For 10 Gigabit Ethernet Fiber IEEE 802.3x for Flow Control back pressure flow control IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3af/802.3at for Power-on-Ethernet
Protocols	IPv4, IPv6, IGMPv1/v2/v3, IGMP Snooping, GARP, GMRP, GVRP, SNMPv1/ v2c/v3, SNMP Inform, ICMP, Telnet, SSH, DHCP Relay/Client, BootP, TFTP, NTP Server/Client, SNTP, SMTP, SMTP(Gmail), RMON, HTTP, Syslog, MRP (Manager/ Client), LLDP, IEEE 1588 PTP V1/V2, 802.1x, EAP, RADIUS, TAC-ACS+, Mirror port, QoS, ACL, Serial Console, U-Ring, STP, RSTP, MSTP, Re-dundancy Compati- ble Ring, ProfiModbus/TCP, UDLD, Security, Trunk,LACP, MLD, 802.1Q VLAN, PortBased VLAN,MAC-Based VLAN, IP-Subnet-Based VLAN, Protocol-Based VLAN, QinQ,802.1x, ARP spoof Prevention, DHCP snooping, IP source Guard, Dynamic ARP Inspection, DHCP relay Agent
Automation Profiles	Profinet CC-B v2.33 certified, GSDML file provided
SNMP MIB	MIB II, IF-MIB, SNMPv2 MIB, BRIDGE-MIB, RMON MIB Group 1,2,3,9, RFC RFC 1157,RFC1213,RFC1215,RFC1493,RFC1643,RFC1757,RFC2011, RFC 2012,RFC2013,RFC2233,RFC2571,RFC2742,RFC2819,RFC2863, RFC 3411,RFC3412,RFC3413,RFC3414,RFC3415

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Specifications

Power	
Input Voltage	45-57 VDC for 802.3af mode 51-57 VDC for 802.3at mode
Input Current	Max. 3.3 A @ 45 VDC (Support up to 8 ports at 15.4W per PoE port) Max. 5.2 A @ 51 VDC (Support up to 8 ports at 30W per PoE port)
Connector	Removable 5-Pin Terminal Block
Reverse Polarity Protection	Yes
Interfaces	
RJ-45 Ports	10/100/1000BASE-T(X) or 10/100BASE-T(X) auto negotiation speed
Fiber Ports	100/1000BASE-X SFP slot
LED Indicators	PWR1, PWR2, Alarm, Run, Ring, Ring Master, RJ-45 Link/Speed, SFP Link, PoE
Console	RS232 (RJ45 connector)
Relay Output	2 relay outputs with current carrying capacity of 2A @ 30 VDC
DIP Switches	Ring Control
Button	Reset Button
Physical Characteristics	
Housing Dimension (W x H x D) Weight Installation	IP30 Protection, Metal housing 60.3 x 137.9 x 164 mm 1.2Kg DIN-Rail, Wall mount (optional kit)
Environmental Limits	
Operating Temperature Storage Temperature Ambient Relative Humidity	-20°C to +70°C (-4°F to +158°F) -40°C to +85°C (-40°F to +185°F) 5% to 95%, 55°C (Non-condensing)

Regulatory Approvals

Regulatory Approvals	
Safety	UL60950-1 2nd Ed. /CSA C22.2 No.60950-1-07 2nd Ed. / CB (IEC/ EN62368-1 & IEC/EN60950-1)
EMC	FCC Part 15, Subpart B, Class A / EN 61000-6-4:2007+A1:2011 / EN 61000-6-2:2005

Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±6KV ±8KV	3 3
IEC 61000-4-3	RS	Radiated (Enclosure)	10 (V/m)	3
IEC 61000-4-4	EFT	DC Power Port Signal Port	±2.0KV ±1.0KV	3 3
IEC 61000-4-5	Surge	DC Power Port Signal Port	Line-to Line ±1.0KV Line-to Earth ±1.0KV	3 2
IEC 61000-4-6	CS	Conducted (Enclosure)	10V rms	3
IEC 61000-4-8	PFMF	Enclosure	30A/m	4
Shock	IEC 60068-2-27			
Drop	IEC 60068-2-32			
Vibration	IEC 60068-2-64			
Traffic Control	NEMA TS-2			
RoHS	Yes			
MTBF	11 years			

Ordering information

Model	Description
SWMDH-7512-4P-4SFP	12-Port 10/100/1000BASE-TX with 4 Combo Giga SFP et & 4 port PoE+ (30W), Hardened Managed Ethernet layer 2 Switch. redundancy dual DC input isolated power supply (45～57VDC), DIN mount, -40°~+70°operating
SWMDH-7512-8P-4SFP	12-Port 10/100/1000BASE-TX with 4 Combo Giga SFP et & 8 port PoE+ (30W), Hardened Managed Ethernet layer 2 Switch. redundancy dual DC input isolated power supply (45～57VDC), DIN mount, -40°~+70°operating

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