

# IS-DH510P-8-M12 Series

10-ports Din-Rail/Wall Mount Managed Layer 2 M12 PoE Switch



The IS-DH510P-8-M12 Series are a ruggedized switching platform that complies with the most demanding IP65 industrial standards, designed for industrial applications requiring completely potted to protect against water, shock and vibration. IS-DH510P-8-M12 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 good quality services.



## Key features

- ▶ Provide 8 Fast Ethernet M12 Copper ports, with IEEE 802.3af/at compliant
- ▶ PoE PSE functionality
- ▶ Provide 2 Gigabit Ethernet M12 Copper ports, with bypass functionality
- ▶ 9K Jumbo frames
- ▶ L2 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 75°C operating temperature range
- ▶ IP65 protection
- ▶ Industrial-hardened, wall-mountable form factor

## Specification

### Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	8K
Backplane / Switching Fabric	3.6 Gbps

### M12 ports

Speed	10/100 Mbps
Ethernet	M12, D-coded, Female
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/Duplex	10/100 Mbps speed auto-negotiation; Full & Half Duplex
PoE	IEEE 802.3af/at (15.4/30 Watt), PoE/PoE+

### Protocols & Standards

IEEE 802.3 , IEEE 802.3x, Flow Control, Back Pressure, TCP/UDP, IEEE802.3af/at
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### Network Redundancy

I.A. Ring / I.A. Chain	Link Loss Recovery < 20ms@250pcs
Network Topology Optimize Functions	Ring Coupling, Multiple-Ring, Dual-Homing
Spanning Tree Protocol	IEEE 802.1D/1w/1s, STP/RSTP/MSTP
Port Trunk / LACP	Static Trunk or 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 VLAN
	IEEE 802.1Q tag-based VLAN
	IEEE 802.1ad Double Tagging (QinQ)
Multicast protocols	IGMP v1, v2, with up to 255 multicast groups
	IGMP snooping, querying
	Immediate leave and leave proxy, Throttling and filtering
	IEEE 802.1ab LLDP

### Traffic management & QoS

Priority	IEEE 802.1p QoS
Number of queues per port	8
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
Storm Control	Multicast/Broadcast/Flooding Storm Control

### 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
PoE	Smart PoE management
MIBs	RFC 1757RMON 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

Power Input	Redundant Power Input
Input Voltage Range	24-110 VDC
Reverse power protection	YES
Transient protection	> 15, 000 Watts peak
Input Current	6 A @ 24 VDC; 1.25 A @110VDC

### Indicators

Power status indication	Indication of power input status
M12 port indication	Link & speed → Green PoE Link → Amber

### Environmental and Compliances

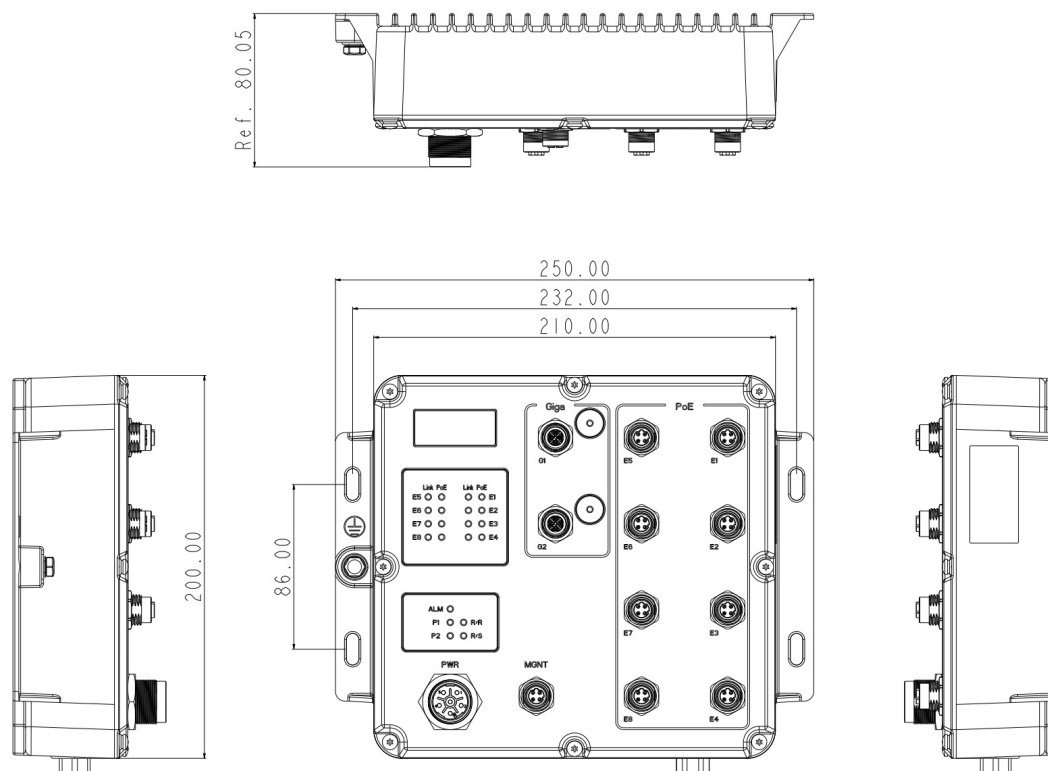
Operating Temperature	-40~75°C (Cold startup at -40°C)
Storage Temperature	-40~85°C
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-2-6, -27, -32
Certification Compliance	CE, FCC
Electrical safety	CE, UL60950-1
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6 (Level 3)

Moving Vehicle	EN-50121-4, EN-50155 Compliant
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>25 years

### Mechanical

Protection	IP65
Dimension	TBD
Weight	1.5kg
Installation	Wall mount

### Dimension Diagram



### Ordering Information

Available Models	Description	10/100Base-T(X) PoE M12 connector	10/100/1000Base-T(X) M12 connector
IS-DH510P-8-M12	Industrial 10-port IP65 Ruggedized L2 Managed PoE Ethernet Switch	8	2

### Accessories

N/A

### Package Checklist

- IS-DH510P-M12 Switch
- Quick Installation Guide (Printed)
- Wall Mount kit