

SLX-8MS-8/9 Managed Industrial Switch

Sixnet Networking Series



Managed Ethernet Industrial Switches

Red Lion's Sixnet series SLX-8MS managed industrial Ethernet switches feature four ports of Fast Ethernet and four 100Base fiber ports with SC or ST style connectors. These rugged managed switches provide reliable and secure communication to network devices in harsh environments.

The SLX-8MS-8/9 switches provide uncompromising performance in industrial environments with redundant power inputs, a wide operating temperature range, and offers a variety of 10/100Base copper and 100Base fiber options. The SLX-8MS features Modbus/TCP and HTTPS allowing secure remote network monitoring. Real-Time Ring® provides fast rings ensure data links are always available for mission-critical applications. The SLX-8MS is ideal for deployment in industrial networks including oil and gas, water/wastewater, utility, transportation and mining. With a small footprint and built-in DIN-rail and panel mount options, the SLX-8MS is optimal for cabinets or shelters.



APPLICATIONS

- > Oil & Gas
- > Water/Wastewater
- > Utility
- > Mining
- > Maritime

PRODUCT HIGHLIGHTS

- > Secure Monitoring & Communication
- > Wide -40° to 75°C Operating Temperature
- > Redundant 10 to 30 VDC Power Inputs

FEATURES & BENEFITS

Advanced Security

- > Protects against unwanted intrusion
 - Static port security
 - Secure web (HTTPS/SSL) and Telnet (SSH)
 - Broadcast and multicast storm protection
 - Networking and redundancy
- > Ensures fast recovery from faults
 - Real-Time Ring for fast redundant rings
 - Rapid Spanning Tree (RSTP) provides complex redundancy
 - VLAN for traffic segregation
 - QoS/CoS/DS provides real-time message prioritization
 - IGMP providing multicast filtering (snooping and querying)

Powerful Management & Monitoring

- > Provides incredible control and visibility
 - Easy configuration via web GUI or CLI
 - SNMP v1, v2, v3 management
 - RMON and port mirroring for diagnostics
 - Modbus registers for port, power and ring status

Industrial, Reliable Operation

- > Designed for use in rugged environments
 - -40° to 75°C operating temperature range
 - IP40 ingress protection for dust and debris
 - UL/CSA, FCC and CE compliant
 - DIN-rail or panel mounting options
 - High electrical surge and spike protection
 - Superior EMC performance and EMI immunity

SLX-8MS-8/9 Specifications

SWITCH PROPERTIES

Type: Managed
Operation: Store and forward wire-speed switching, non-blocking
Number of MAC Addresses: 2048
Memory Bandwidth: 3.2 Gbps
Aging Time: Programmable
Latency (typical): 5 μ s
Ethernet Isolation: 1,500 Vrms 1 minute

POWER INPUT & ALARM OUTPUT

Input Voltage Range: Dual 10-30 VDC power inputs
Power Consumption: 9W maximum
Surge and Spike Protection: 15kW peak, 5kW (10 times for 10 μ s)
Input Current (max): 625mA @24VDC
BTU/hr: 51 max

CONNECTORS

8 Ports (4 Copper, 4 Fiber Ports)
Copper: 10/100Base Copper
Fully IEEE 802.3 compliant
10/100 and duplex auto-detecting or manually configurable
Auto-MDI/MDIX-crossover
Auto-polarity for automatic correction of crossed TD/RD pairs
Fiber: 100BaseFX with SC or ST style connectors
1300 nm wavelength
Multimode (mm) typ. 50 or 62.5/125 μ m
Singlemode (sm) typ. 9 or 10/125 μ m
120km max fiber distance (full duplex)
Console Port: RS-232 (RJ45) and USB (mini)

NETWORKING & MANAGEMENT

Devices Supported: All IEEE 802.3 compliant
Protocols: SNMPv1/v2/v3, RMON, DHCP, SNMP, TFTP, STP, RSTP, QoS/CoS/ToS/DS, IGMPv1/v2, VLAN (tag and port based), HTTP, HTTPS (SSL and TLS), Telnet and SSH
Industrial Connectivity Protocols Supported: Modbus/TCP
Management Interfaces: Text (Telnet and SSH), CLI (command line interface) and SNMP (see the user manual for supported MIBs)
Modbus Registers: Port, power and ring status

RELIABILITY

MTBF: >2 million hours per MIL-HNDBK-217F2

NETWORK MEDIA

10BaseT: \geq Cat3 cable
100BaseTX: \geq Cat5 cable
100BaseFX, multimode: 50-62.5/125 μ m
100BaseFXE, singlemode: 9-10/125 μ m

RECOMMENDED WIRING CLEARANCE

Front and Top: 4" (10.2 cm)

CERTIFICATION & COMPLIANCE

Standards: IEEE 802.3, 802.3u, 802.3x, 802.1D/w, 802.1p and 802.1Q
Electrical Safety: UL508, CSA C22.2/14; EN61010-1, CE
EMC: FCC part 15, ICES-003; EN610006-2/4, CE
Hazardous Locations: UL1604, CSA C22.2/213 (Class I, Div 2); EN60079-15 (Zone 2; Category 3), CE (ATEX)
NEMA TS-2 for Traffic Control Systems
Eye safety (fiber models) IEC60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11
Marine/Maritime/Offshore Rated per ABS

ENVIRONMENTAL

Operating Temperature: -40°C to 75°C
Operating Humidity: 5% to 95% (Non Condensing)
Operating Altitude: 30,000 ft
Shock & Vibration: IEC 60068-2-6, and -27

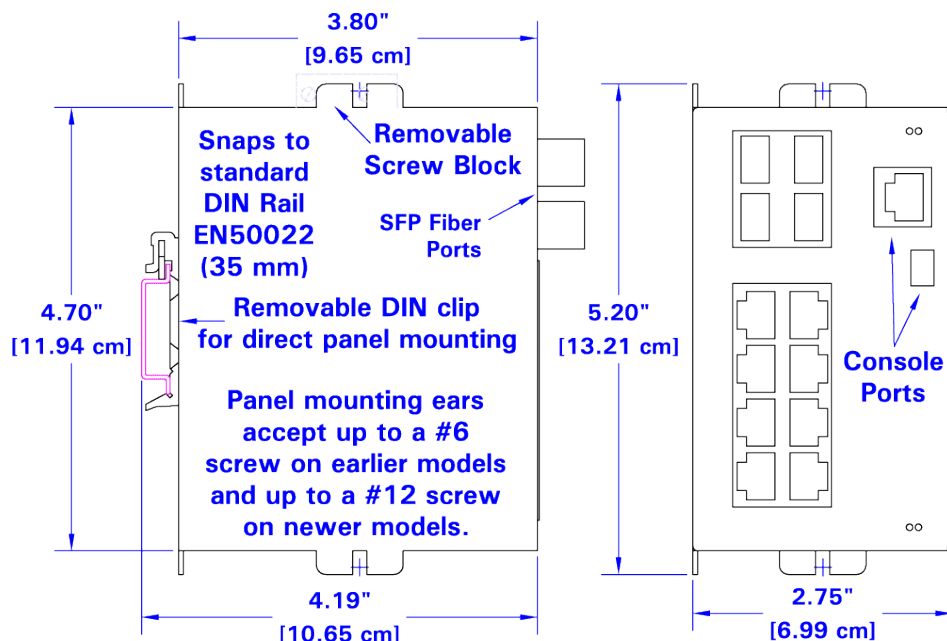
MECHANICAL

Case Dimensions
Height: 4.70" (11.94 cm)
Width: 1.60" (4.07 cm)
Depth: 3.82" (9.70 cm)
Weight: 11 oz (0.31 kg)
Mount: DIN-rail or panel mounting

WARRANTY

5 years on design and manufacturing defects
All specifications are subject to change.

DIMENSIONS in inches (mm)



ORDER GUIDE

PART NUMBER	PRODUCT LINE
SLX-8MS-8SC	8 Port Industrial Managed Switch (4x RJ45 Ports, 4x mm SC Fiber Ports - 4 km)
SLX-8MS-8ST	8 Port Industrial Managed Switch (4x RJ45 Ports, 4x mm ST Fiber Ports - 4 km)
SLX-8MS-9SC	8 Port Industrial Managed Switch (4x RJ45 Ports, 4x sm SC Fiber Ports - 20 km)
SLX-8MS-9ST	8 Port Industrial Managed Switch (4x RJ45 Ports, 4x sm ST Fiber Ports - 20 km)



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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.

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