SLX-5MS-MDM Dial-Up Ethernet Switch

Sixnet® Networking Series

▶▶▶ Managed Fast Ethernet Switch with Telephone Modem

Red Lion's Sixnet® series SLX-5MS-MDM managed Fast Ethernet switch features five Ethernet ports with built-in telephone modem and Modbus monitoring, providing easy and secure remote access over standard telephone lines.



The rugged SLX-5MS-MDM managed switch features 5 10/100Base-T(X) ports and an advanced 56K (V.90) PSTN modem. Designed to handle harsh environments, the SLX-5MS-MDM switch offers wire-speed throughput, redundant 10-30 VDC power inputs and a wide -40° to 75°C operating temperature rating. Real-Time Ring, Modbus/TCP, PPP and HTTPS ensure reliable and secure operation in industrial applications.

APPLICATIONS

> Alternative Energy
> Maritime
> Oil & Gas
> Transportation
> Utility
> Water/Wastewater

PRODUCT HIGHLIGHTS

> Built-in 56K PSTN Modem
> Modbus/TCP Remote Monitoring
> Real-Time Ring Network Recovery
> Wide -40° to 75°C Operating Temperature
> Redundant 10 to 30 VDC Power Inputs

FEATURES & BENEFITS

> 5 Fast Ethernet Ports
  - Five 10/100Base-T(X) copper ports
> Built-in telephone modem
  - Provides secure remote access via twisted copper telephone wire networks
  - Connection speeds up to 56K
> Redundant Power Inputs
  - 10-30VDC
  - Reverse polarity protection
> Robust Industrial Design
  - -40° to 75°C operating temperature
  - Hardened IP40 enclosure
  - Extended shock and vibration specs
  - Electrical noise and surge immunity
  - LED status indicators
  - Configurable alarm output
  - DIN-Rail or panel mount
  - UL/CSA: Class 1, Div 2
> Fully Managed Features Include:
  - Web browser or CLI management
  - Secure web (HTTPS/SSL) and Telnet (SSH)
  - Broadcast and multicast storm protection
  - SNMP v1, v2, v3
  - DHCP Server
  - Real-Time Ring fast-healing ring technology
  - RSTP - 802.1w and 802.1D
  - 802.1p QoS/CoS/DS
  - IGMP multicast filtering
  - SNTP (Simple Network Time Protocol)
  - RMON & port mirroring for advanced diagnostics
  - Modbus/TCP monitoring for port, power and ring status

industrial networking

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▶▶▶ SLX-5MS-MDM Industrial Ethernet Switch Specifications

SWITCH PROPERTIES
- Operation: Managed
- Number of MAC Addresses: 2048
- IEEE Compliance: 802.3, 802.3u, 802.3x, 802.1D/w, 802.1p and 802.1Q
- Industrial Connectivity: Modbus registers for port, power and ring status
- Latency (Typical): 5 µs + frame time
- Switching Method: Store-and-Forward
- LED Status Indicators
- Configurable Alarm Contact
- Supports Full/Half Duplex Operation
- Maximum Throughput: Up to 1 Gb/s
- MDIX Auto Sensing Cable
- Auto Sensing Speed and Flow Control
- Communications: Full Wire Speed
- MTBF: > 2M hours GB @ 40°C per MIL HNDBK-217F2

POWER INPUT
- Input Voltage Range: Dual 10-30 VDC power inputs
- Input Power (Typical): 5 W
- Transient Protection (Peak): 15,000 watts
- Spike Protection: 5,000 watts (10 times for 10 us)

CONNECTORS
- 10/100Base-T: Five (5) RJ-45 ports
- Configuration Port: One (1) RS-232 (RJ-45) and one (1) USB (mini)

NETWORK MEDIA
- 10BaseT: ≥ Cat3 cable
- 100BaseTX: ≥ Cat5 cable

INDUSTRIAL PHONE MODEM
- PSTN modem
- Maximum Data Rate: 56 Kbps
- Compatibility: V.90, V.34, V.32, V.32 bis, V.22, V.22 bis, V.21n
- Data Compression: V.42 bis
- Error Correction: V.42 MNP or LAP
- Ringer: 0.3
- Jacks 2 RJ-11 (phone and line)
- Standard AT and S register command sets
- Country Compatibility: World-wide (100+ countries)
- Telecom Ratings: FCC Part 68; Industry Canada S03-8; CTR21 (98/482/EC); ACA TS 001 and ACA TS 002

RECOMMENDED WIRING CLEARANCE
- Front: 4" (10.2 cm)
- Top: 4" (10.2 cm)

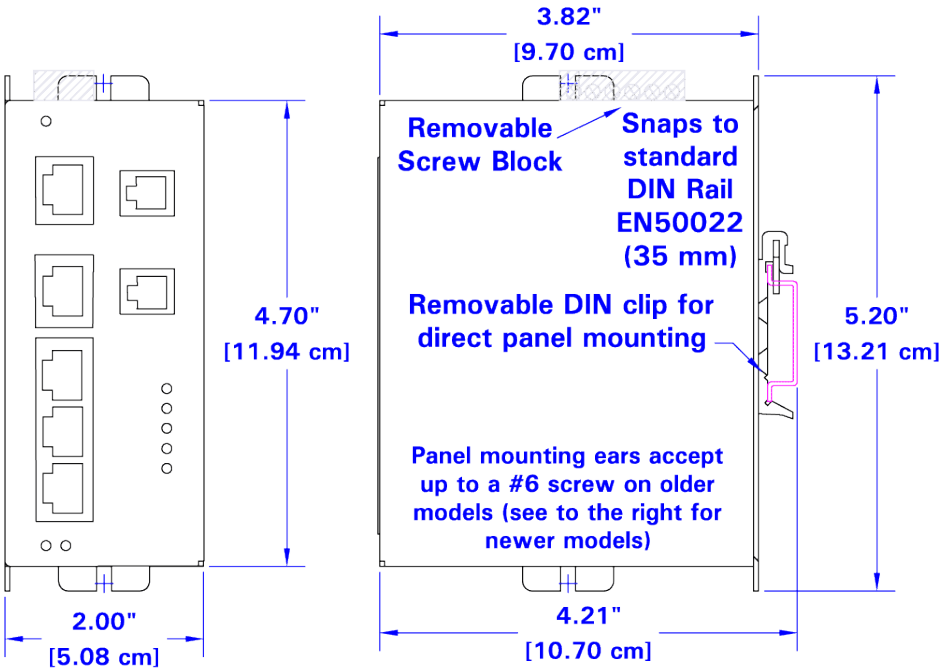
ENVIRONMENTAL
- Operating Temperature: -40°C to 75°C
- Storage Temperature: -40°C to 85°C
- Operating Humidity: 5% to 95% (non condensing)
- Operating Altitude: 0 to 30,000 ft.
- Shock and Vibration: IEC 60068-2-6, 2-27

CERTIFICATION & COMPLIANCE
- Electrical Safety: UL508/CSA C22.2/142; IEC61010-1, CE
- EMI Emissions: FCC part 15, ICES-003; EN61000-6-4, CE
- EMC Immunity: EN61000-6-2, CE
- Hazardous Locations: ANSI/ISA 12.12.01, CSA C22.2/213 (Class 1, Division 2); EN60079-0, -15 (zone 2; category 3), CE (ATEX)
- Marine: Offshore rated per ABS

MECHANICAL
- Case Dimensions:
  - Height: 4.7" (11.94 cm)
  - Width: 2.0" (5.08 cm)
  - Depth: 3.82" (9.70 cm)
  - Weight: 10.0 oz (0.28 kg)
- Mount: DIN rail (35 mm) and panel mount

WARRANTY
- 5 Years on Design and Manufacturing Defects

DIMENSIONS *in inches (mm)*



ORDER GUIDE

PART NUMBER	PRODUCT LINE
SLX-5MS-MDM-1	5-Port Industrial Fast Ethernet Managed Switch (5 10/100Base-T Copper Ports with Integrated Modem)
ET-PS-024-02	Power supply – AC to 24VDC, 2A
SP-ETH-2	Dual port Ethernet surge & lightning protecton for the 10/100 ports only
RJ45-DB9F-CBL	Console port cable, DB9 to RJ45

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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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