

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



▶▶▶ 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 μ s + 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 HNBK-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: \geq Cat3 cable
100BaseTX: \geq 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

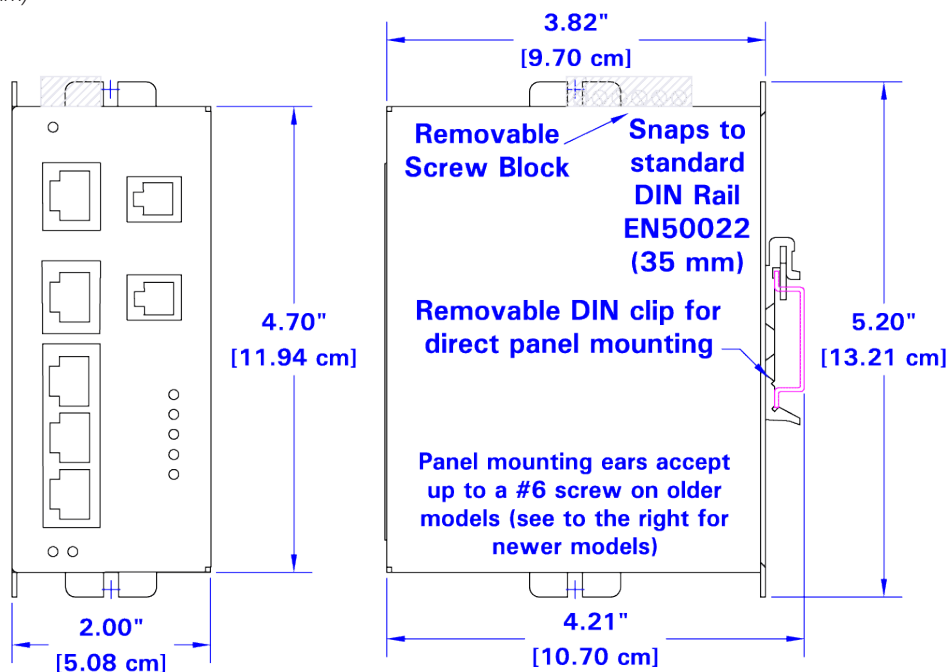
MECHANICAL

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 protection for the 10/100 ports only
RJ45-DB9F-CBL	Console port cable, DB9 to RJ45