# SLX-16MS Industrial Ethernet Switch

Sixnet<sup>®</sup> Networking Series

#### **Managed Fast Ethernet Switch**

Red Lion's Sixnet<sup>®</sup> series SLX-16MS managed Fast Ethernet switch features 16 copper ports, powerful network recovery and Modbus monitoring, providing reliable connectivity in harsh environments.

The rugged SLX-16MS managed switch features 16 10/100Base-T(X) copper ports and is housed in a slim, hardened metal DIN-rail enclosure with redundant 10-30 VDC power inputs. Designed to handle harsh environments, the SLX-16MS switch offers wire-speed throughput, high MTBF and wide -40° to 75°C operating temperature ratings. Real-Time Ring, self-healing ring technology, Modbus/ TCP and advanced security features ensure reliable and secure operation in industrial applications.



- > Hardened Industrial Design
- > Wide -40° to 75°C Operating Temperature
- > Redundant 10 to 30 VDC Power Inputs
- > Modbus/TCP Remote Monitoring
- Real-Time Ring and Rapid Spanning Tree Protocol for network redundancy

- **FEATURES & BENEFITS**
- > 16 Fast Ethernet Ports
  - 16 10/100Base-T(X) copper ports
- > Redundant Power Inputs
  - 10-30VDC

**APPLICATIONS** 

Maritime

> Oil & Gas

Utility >

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> Alternative Energy

Transportation

Water/Wastewater

- Reverse polarity protection
- > Robust Industrial Design
  - -40° to 75°C operating temperature
  - Hardened IP40 enclosure ٠
  - Extended shock and vibration specs ٠
  - Electrical noise and surge immunity ٠
  - 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
  - MAC-based port security
  - Secure web (HTTPS/SSL) and Telnet (SSH)
  - IEEE 802.1x with RADIUS remote server authentication ٠
  - Broadcast and multicast storm protection
  - SNMP v1, v2, v3
  - DHCP Server
  - Real-Time Ring fast-healing ring technology
  - RSTP/MSTP 802.1w, 802.1D, 802.1Q-2005 •
  - 802.1Q VLAN for traffic segregation
  - 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















## SWITCH PROPERTIES

Operation: Managed Number of MAC Addresses: 8192 IEEE Compliance: 802.3, 802.3u, 802.3x, 802.1D/w, 802.1p, 802.1Q and 802.1x 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 3.2 Gb/s MDIX Auto Sensing Cable Auto Sensing Speed and Flow Control Communications: Full Wire Speed MTBF: >1M hours GB @ 40°C per MIL HNDBK-217F2

#### **POWER INPUT**

Input Voltage Range: Dual 10-30 VDC power inputs Input Power (Typical): 7 W Transient Protection (Peak): 15,000 watts Spike Protection: 5,000 watts (10 times for 10 us)

### CONNECTORS

10/100Base-T: Sixteen (16) RJ-45 ports Configuration Port: One (1) RS-232 (RJ-45) and one (1) USB (mini)

# NETWORK MEDIA

 $10BaseT: \ge Cat3 cable$  $100BaseTX: \ge Cat5 cable$ 

#### **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, -27

#### **CERTIFICATION & COMPLIANCE**

Electrical Safety: UL508/CSA C22.2/142; EN61010-1, 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

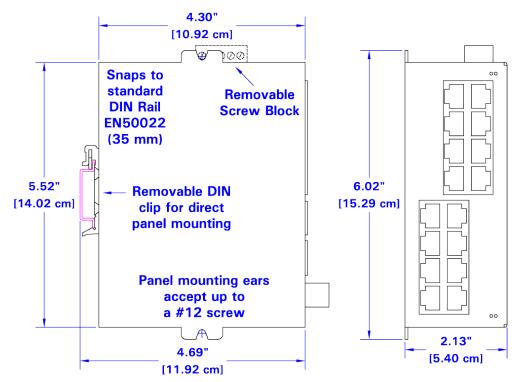
# MECHANICAL

Case Dimensions: Height: 5.52" (14.02 cm) Width: 2.13" (5.4 cm) Depth: 4.30" (10.92 cm) Weight: 12.0 oz (0.34 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-16MS-1	16-Port Industrial Fast Ethernet Managed Switch (16 10/100Base-T Copper Ports)
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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