

SLX-16MS Industrial Ethernet Switch

Sixnet® Networking Series



Managed Fast Ethernet Switch

Red Lion's Sixnet® 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.



APPLICATIONS

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

PRODUCT HIGHLIGHTS

- > 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
 - 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
 - MAC-based port security
 - Secure web (HTTPS/SSL) and Telnet (SSH)
 - IEEE 802.1x with RADIUS remote server authentication
 - 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

industrial
networking



▶▶▶ SLX-16MS Industrial Ethernet Switch Specifications

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

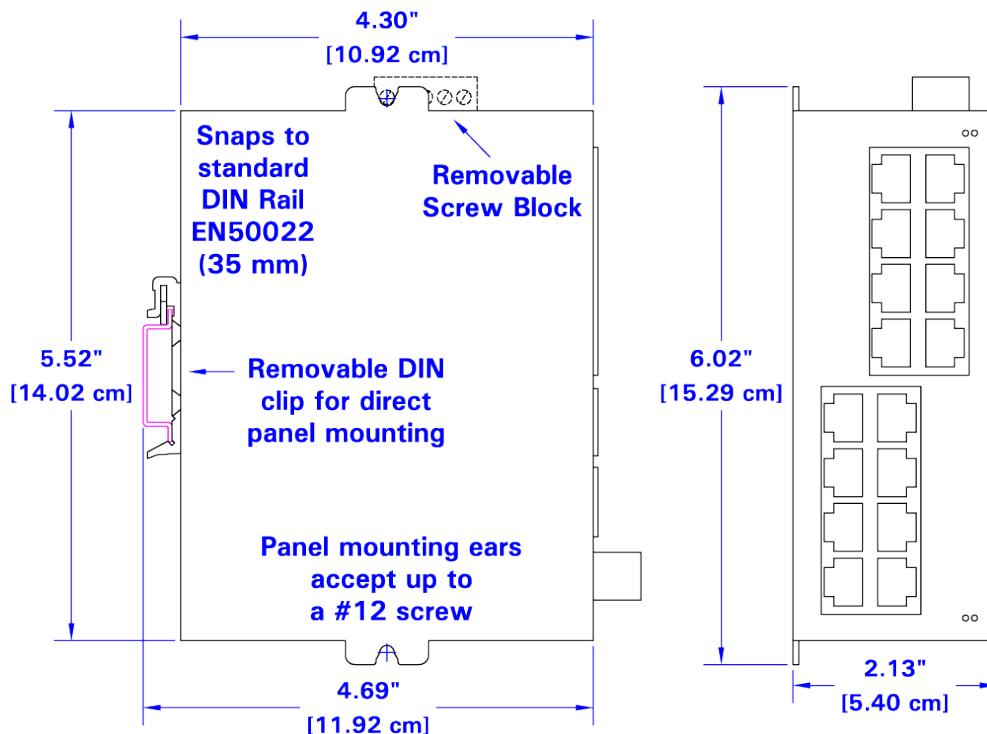
MECHANICAL

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

