SLX-5MS Industrial Ethernet Switches

Sixnet[®] Networking Series

Managed Fast Ethernet Switches

Red Lion's Sixnet[®] series SLX-5MS managed Fast Ethernet switches features five ports with up to two fiber ports and Modbus monitoring, providing reliable connectivity options in harsh environments.

Rugged SLX-5MS managed switches feature 5 ports (up to 2 fiber ports) and are housed in slim, hardened metal DIN-rail enclosures with redundant 10-30 VDC power inputs. Designed to handle harsh environments, SLX-5MS switches offer wire-speed throughput, high MTBF and wide -40° to 75°C operating temperature ratings. Real-Time Ring, Modbus/TCP and HTTPS ensure reliable and secure operation in industrial applications.

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

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

FEATURES & BENEFITS

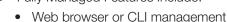
- > 5 Fast Ethernet Ports
 - Up to Five 10/100Base-T(X) copper ports
 - Up to two 100Base-FX fiber ports
- > Redundant Power Inputs
 - 10-30VDC
 - Reverse polarity protection
- > Robust Industrial Design
 - -40° to 75°C operating temperature
 - Hardened IP40 enclosure
 - Extended shock and vibration specs
 - Electrical noise and surge immunity •

networking

- LED status indicators •
- Configurable alarm output ۲
- DIN-Rail or panel mount •
- >2 million hours MTBF

industrial

UL/CSA: Class 1, Div 2



- 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

ROHS













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 Ethernet isolation 1500 VRMS 1 minute Maximum Throughput: 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 (Max): 7 W Input Power (Typical): 3.6 W (without fiber) 5.6 W (with fiber) Transient Protection (Peak): 15,000 watts Spike Protection: 5,000 watts (10 times for 10 us)

CONNECTORS

10/100Base-T: Up to five (5) RJ-45 ports 100Base-FX: Up to two (2) ST or SC duplex fiber ports Configuration Port: One (1) RS-232 (RJ-45) and one (1) USB (mini)

NETWORK MEDIA

10BaseT: ≥ Cat3 cable 100BaseTX: ≥ Cat5 cable 100Base-FX Multimode: 50-62.5/125 μm 100Base-FX Singlemode: 9-10/125 μm

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; 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 Eye Safety (Fiber Models): IEC60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11

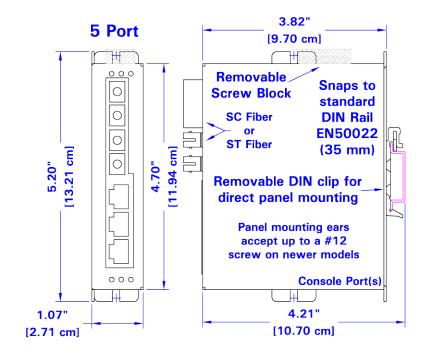
MECHANICAL

Case Dimensions: Height: 4.7" (11.94 cm) Width: 1.07" (2.71 cm) Depth: 3.82" (9.70 cm) Weight: 8 oz (0.23 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-1	5-Port Industrial Fast Ethernet Managed Switch (5 10/100Base-T Copper Ports)		
SLX-5MS-4XX	5-Port Industrial Fast Ethernet Managed Switch (3 10/100Base-T, 2 100Base-FX, Multimode 2km Ports)		
SLX-5MS-5XX	5-Port Industrial Fast Ethernet Managed Switch (3 10/100Base-T, 2 100Base-FX, Singlemode 30km Ports)		
SLX-5MS-5XXL	5-Port Industrial Fast Ethernet Managed Switch (3 10/100Base-T, 2 100Base-FX, Singlemode 60km 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		
Where XX = ST or SC connector			

FIBER TRANSCEIVER CHARACTERISTICS

FIBER MODE	ММ	SM	SM
Fiber Length	2 km	30 km	60 km
TX Power Min	-23.5 dBm	-15 dBm	-5 dBm
RX Sensitivity Max	-32 dBm	-34 dBm	-35 dBm
Wavelength	1310 nm	1310 nm	1310 nm

* Fiber Length distances represent typical performance. Link budgets should be evaluated based on specific application conditions.



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