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.
**SLX-5MS 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**
- **Ethernet isolation 1500 VRMS 1 minute**
- **Maximum Throughput:** 1 Gb/s
- **MDIX Auto Sencing Cable**
- **Auto Sensing Speed and Flow Control**
- **Communications:** Full Wire Speed
- **MTBF:** > 2M hours GB @ 40°C per MIL HNDBK-217F

**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

**DIMENSIONS** *in inches (mm)*

**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
## ORDER GUIDE

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PRODUCT LINE</th>
</tr>
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<tbody>
<tr>
<td>SLX-5MS-1</td>
<td>5-Port Industrial Fast Ethernet Managed Switch (5 10/100Base-T Copper Ports)</td>
</tr>
<tr>
<td>SLX-5MS-4XX</td>
<td>5-Port Industrial Fast Ethernet Managed Switch (3 10/100Base-T, 2 100Base-FX, Multimode 2km Ports)</td>
</tr>
<tr>
<td>SLX-5MS-5XX</td>
<td>5-Port Industrial Fast Ethernet Managed Switch (3 10/100Base-T, 2 100Base-FX, Singlemode 30km Ports)</td>
</tr>
<tr>
<td>SLX-5MS-5XXL</td>
<td>5-Port Industrial Fast Ethernet Managed Switch (3 10/100Base-T, 2 100Base-FX, Singlemode 60km Ports)</td>
</tr>
<tr>
<td>ET-PS-024-02</td>
<td>Power supply – AC to 24VDC, 2A</td>
</tr>
<tr>
<td>SP-ETH-2</td>
<td>Dual port Ethernet surge &amp; lightning protection for the 10/100 ports only</td>
</tr>
<tr>
<td>RJ45-DB9F-CBL</td>
<td>Console port cable, DB9 to RJ45</td>
</tr>
</tbody>
</table>

Where XX = ST or SC connector

### FIBER TRANSCEIVER CHARACTERISTICS

<table>
<thead>
<tr>
<th>FIBER MODE</th>
<th>MM</th>
<th>SM</th>
<th>SM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber Length</td>
<td>2 km</td>
<td>30 km</td>
<td>60 km</td>
</tr>
<tr>
<td>TX Power Min</td>
<td>-23.5 dBm</td>
<td>-15 dBm</td>
<td>-5 dBm</td>
</tr>
<tr>
<td>RX Sensitivity Max</td>
<td>-32 dBm</td>
<td>-34 dBm</td>
<td>-35 dBm</td>
</tr>
<tr>
<td>Wavelength</td>
<td>1310 nm</td>
<td>1310 nm</td>
<td>1310 nm</td>
</tr>
</tbody>
</table>

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