Sixnet
INDUSTRIAL ETHERNET MANAGED SWITCHES

The SLX-5MS and SLX-8MS are 5 and 8 port industrial Ethernet managed switches that are designed to be rugged, reliable, real-time and secure. They combine compact DIN rail packaging, protected circuitry and powerful software to keep your system going even in the toughest conditions.
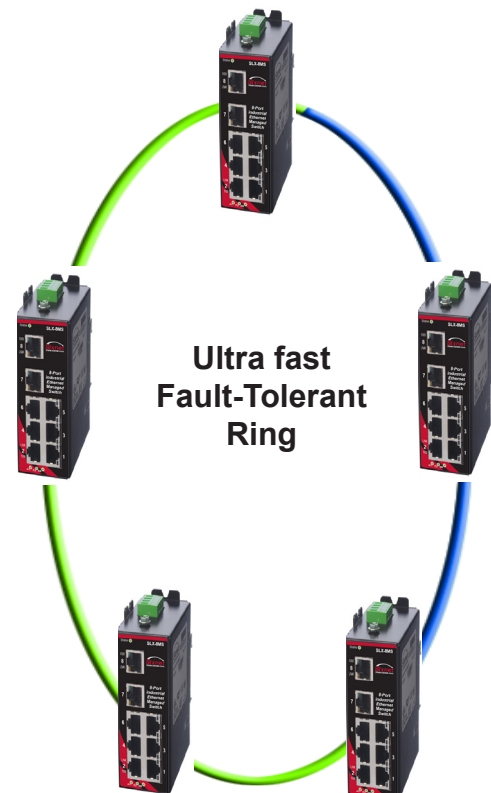
PRODUCT HIGHLIGHTS

- 5 or 8 port industrial Ethernet managed switch with up to 4 fiber optic ports (multimode or singlemode)
- Slim packaging fits on your din rail
- High performance and value
- Truly industrial hardened design
- Advanced features and security

REAL-TIME SECURE PERFORMANCE

- Real-Time-Ring™ or Rapid Spanning Tree (RSTP) for fast redundant ring or mesh networks
- SNMPv1 and v2 network management
- SNMPv3 authentication & encryption for security
- SNMP notifications (traps) for report on event
- Priority Queuing (QoS/CoS) for real-time operation
- IGMP for Multicast filtering (snooping & querying)
- VLAN for convenient traffic segregation
- Broadcast & multicast storm protection
- RMON & port mirroring for advanced diagnostics
- Security with HTTPS, SSL, SSH, SNMPv3 & more
- Easy configuration via Web, Telnet or CLI
- Free field-installable firmware upgrades forever

TROUBLE FREE OPERATION

- UL CSA (CUL), CE, Hazardous Locations (Zone 2) and Maritime rated
- -40 to 75°C operating temperature (SLX models)
- Dual (redundant) power inputs with spike protection
- Self-test and alarm output contact
- Rugged corrosion-resistant metal packaging
- DIN rail or direct panel mounting in multiple positions
- Ultra-reliable >2 million hours MTBF
- Standard 5 year industrial warranty

Ultra fast Fault-Tolerant Ring

ETHERNET PERFORMANCE

- 5 or 8 Ethernet ports with up to 4 fiber
- Ethernet switch type managed
- Store and forward wire speed switching
- Ethernet protocols supported all IEEE 802.3
- RJ45 ports (shielded) 10/100BaseTX
- RJ45 speed (10M or 100M) auto-negotiation
- RJ45 MDI/MDIX auto-crossover
- RJ45 TD and RD polarity auto-polarity
- Fiber optic port speed 100BaseFX (100 Mbps)
- Fiber optic port wavelength 1300 nm center
- Fiber multimode (mm) typ. 50 or 62.5/125 um (SC or ST)
- Fiber singlemode (sm) typ. 9 or 10 /125 um (SC or ST)
- Fiber max. distance (full duplex) up to 120km
- See separate datasheet for fiber transceiver details
- Typical latency (varies on load & settings):
    - 10M ports 16 us + frame time
    - 100M ports 5 us + frame time
- Full or half duplex operation configurable
- MAC addresses supported 2048
- Memory bandwidth 3.2 Gbps
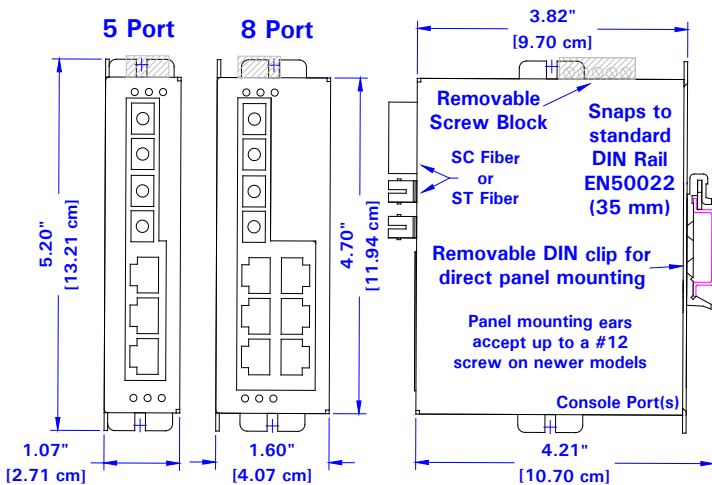- Ethernet isolation 1500 VRMS 1 minute

ETHERNET COMPLIANCE

- IEEE 802.3 (10Mbps Ethernet supports legacy devices)
- IEEE 802.3u (Fast Ethernet 100Mbps for newer devices)
- IEEE 802.3x (Full-Duplex with Flow Control)
- IEEE 802.1D/w (Rapid Spanning Tree for redundant rings and Spanning Tree for interoperability)
- IEEE 802.1p (Priority Queuing – QoS, CoS, ToS/DS)
- IEEE 802.1Q (VLAN for traffic segregation)

"OK" OUTPUT

- Indicates power and operational status
- Voltage same as switch input voltage
- Maximum current output 0.5 Amp

POWER INPUT

- Input power (typical - all ports active at 100 Mbps) (Max. 7 W)
    - 3.6 W (5-port without fiber)
    - 4.3 W (8-port without fiber)
    - 5.6 W (5-port with 2 fiber)
    - 6.3 W (8-port with 2 fiber)
- Input voltage (all models) 10-30 VDC (continuous)
- Transient protection 15,000 watts peak
- Spike protection 5,000 watts (10 times for 10 uS)

ENVIRONMENTAL

- Operating temperature range -40 to +75°C
- Cold startup at -40°C
- Storage temperature range -40 to +85 °C
- Humidity (non-condensing) 5 to 95% RH (conformal coating optional)
- Vibration and shock: IEC 60068-2-6, -27

STANDARDS COMPLIANCE

- Electrical safety UL508/CSA C22.2/14; EN61010-1,CE
- EMI emissions FCC part 15, ICES-003; EN6100-6-4, CE
- EMC immunity IEC61000-6-2, CE
- Hazardous locations UL1604, CSA C22.2/213 (Class I, Div. 2); EN60079-15 (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
- MTBF: >2MM Hours GB @ 40˚C per MIL-HNDBK-217F2

PHYSICAL

- DIN rail or direct panel mounting
- Packaging - Aluminum with IP30 protection
- Weight 8 oz (0.23 kg) for 5MS-1/4/5; 10 oz (0.28 kg) for 8MS-1/4/5

WARRANTY

- 5 years on manufacturing and design defects

All specifications are subject to change. Consult factory for latest info.

MECHANICAL DRAWING

5 Port   **8 Port**

3.82"
[9.70 cm]

Removable Screw Block

Snaps to standard DIN Rail EN50022 (35 mm)

SC Fiber or ST Fiber

Removable DIN clip for direct panel mounting

Panel mounting ears accept up to a #12 screw on newer models

Console Port(s)

5.20" [13.21 cm]

4.70" [11.94 cm]

1.07" [2.71 cm]   1.60" [4.07 cm]   4.21" [10.70 cm]

See the User Manual for a More Detailed Diagram

ORDERING GUIDE

SLX-5MS-1	5 RJ45 10/100 ports
SLX-5MS-4SC **SLX-5MS-4ST**	3 RJ45 ports & 2 multimode fiber optic port with SC or ST style connector, 4Km
SLX-5MS-5SC **SLX-5MS-5ST**	3 RJ45 ports & 2 singlemode fiber optic port with SC or ST style connector, 20Km
SLX-8MS-1	8 RJ45 10/100 ports
SLX-8MS-4SC **SLX-8MS-4ST**	6 RJ45 ports & 2 multimode fiber optic port with SC or ST style connector, 4Km
SLX-8MS-5SC **SLX-8MS-5ST**	6 RJ45 ports & 2 singlemode fiber optic port with SC or ST style connector, 20Km
SLX-8MS-8/9	See separate datasheet for managed slim line models with up to 4 fiber optic ports

Special, mixed or long-haul (up to 120 km) fiber transceivers are available for special order.