Sixnet

FOUR FIBER INDUSTRIAL ETHERNET MANAGED SWITCH

The SLX-8MS-8/9 is an 8 port industrial Ethernet managed switch featuring 4 noise-immune fiber optic ports. It is designed to be rugged, reliable, real-time and secure to keep your system going even in the toughest conditions.

PRODUCT HIGHLIGHTS

- Four 100 Mbps fiber optic ports for noise immune links up to 120 km
- Slim packaging fits on your din rail
- High performance and value
- Truly industrial hardened design
- Advanced features and security

REAL-TIME SECURE PERFORMANCE

- Rapid Spanning Tree (RSTP) for fast redundant rings
- 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 PERFORMANCE

- UL/CSA (CUL), CE, Hazardous Locations (Zone 2) and Maritime rated
- -40 to 75°C operating temperature
- Dual (redundant) power inputs with spike protection
- Self-test and alarm output contact
- Rugged corrosion-resistant aluminum packaging
- DIN rail or direct panel mounting in multiple positions

Ultra-Fast Fault-Tolerant Ring
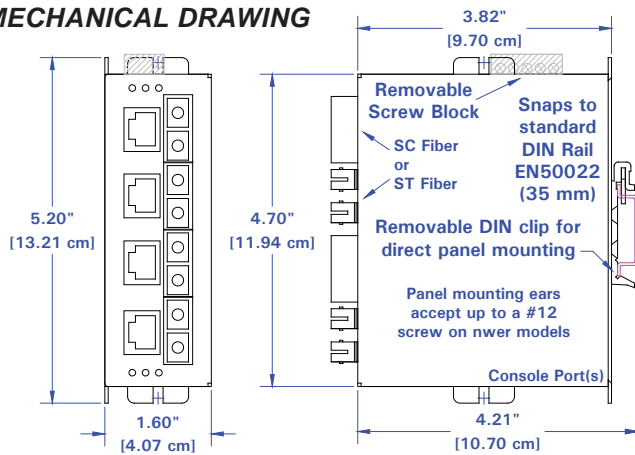
ETHERNET PERFORMANCE

- 8 Ethernet ports including 4 fiber
- Ethernet switch type managed
- Store and forward wire speed switching
- Ethernet protocols supported by all IEEE 802.3
- RJ45 ports (shielded) 10/100BaseTX
- RJ45 speed (10 or 100 Mbps) 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) typical 50 or 62.5/125 um (SC or ST)
- Fiber singlemode (sm) typical 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

MECHANICAL DRAWING

See the User Manual for a More Detailed Diagram

POWER INPUT

- Redundant input terminals
- Input power (with all ports active) 9.0 W typical
- 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 SLX models: -40 to +75°C (cold startup @ -40°C)
- Storage temperature range -40 to +85 °C
- Humidity (non-condensing) 5 to 95% RH (conformal coating is available)
- Vibration IEC60068-2

STANDARDS COMPLIANCE

- Electrical safety UL508/CSA C22.2/14; EN61010-1, CE
- EMI emissions FCC part 15, ICES-003; EN61000-6-4, 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 and offshore rated per ABS
- Eye safety (fiber models) IEC60825-1, Class 1; FDA 21 CFR 1040.10 and 1040.11

PHYSICAL

- DIN rail or direct panel mounting
- Packaging - aluminum with IP30 protection
- Weight 11 oz. (0.31kg)
- Dimensions - see mechanical drawing

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

ORDERING GUIDE

SLX-8MS-###	See separate datasheets for managed models with only 2 fiber optic ports
SLX-8MS-8SC **SLX-8MS-8ST**	Managed with 4 RJ45 ports and 4 multimode fiber optic ports with SC or ST style connector, 4Km
SLX-8MS-9SC **SLX-8MS-9ST**	Managed with 4 RJ45 ports and 4 singlemode fiber optic ports with SC or ST style connector, 20Km

ACCESSORIES

ET-PS-024-02	AC to 24VDC, 2A, for din rail mounting
SP-ETH-2	Dual port surge & lightning protector

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