

DATASHEET

SLX-8MG Industrial Ethernet Switch

SlimLine Plus Gigabit Industrial Connectivity



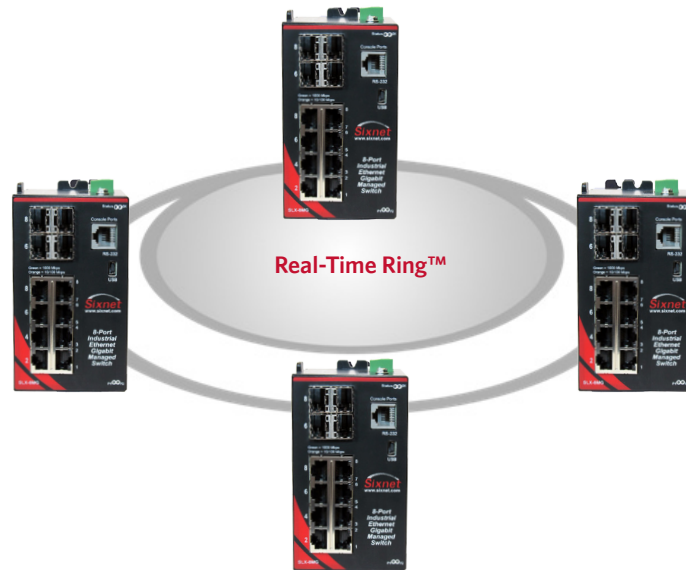
PRODUCT HIGHLIGHTS

- 8 “all-Gigabit” ports for 10/100/1000 Ethernet links
- 4 advanced combo ports accept copper RJ45 or noise-immune fiber optic links up to 100+ km
- Managed with advanced networking features and security
- Slim DIN-rail packaging
- High performance and reliability
- Industrial-hardened design

APPLICATIONS

- Power & Utilities
- Transportation
- Oil & Gas
- Mining
- Maritime

The SLX-8MG is an 8 port “all-Gigabit” managed industrial Ethernet switch designed to be rugged, reliable and secure. Combining compact DIN-rail packaging and protected circuitry with powerful software, our managed switches keep industrial networks up and running even in the toughest conditions.



FEATURES & BENEFITS

Advanced Networking & Redundancy

- Ensures fast recovery from faults
- Prioritizes handling of mission-critical data
 - Real-Time Ring™ for fast redundant rings
 - Rapid Spanning Tree (RSTP) provides complex redundancy
 - VLAN for convenient traffic segregation
 - QoS/CoS/DS provide real-time message prioritization
 - IGMP for multicast filtering (snooping and querying)
 - Dual redundant power inputs

Powerful Management & Monitoring

- Simplifies configuration and management
- Provides fast and easy troubleshooting
 - Easy configuration via Web or CLI
 - SNMPv1, v2, v3 network management
 - RMON and port mirroring for advanced diagnostics
 - Field-installable firmware upgrades
 - Modbus registers for port, power and ring status

Advanced Cyber Security

- Prevents against unauthorized access
- Protects from unwanted intrusion
 - Static port security
 - Secure web (HTTPS/SSL) and Telnet (SSH)
 - Broadcast and multicast storm protection

Rugged, Reliable Operation

- Supports deployment in extreme environments
- Provides high reliability in the toughest applications
 - UL/CSA, FCC and CE compliant
 - Superior EMC performance and EMI immunity
 - -40 to 75°C operating temperature
 - Rugged corrosion-resistant metal enclosure
 - DIN rail or direct panel mounting options
 - Sealed IP40 protects against dust, dirt and debris

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SPECIFICATIONS

Ethernet Performance

- Type: managed
- Operation: store and forward wire-speed switching, non-blocking
- Modes: full or half duplex operation with flow control
- MAC addresses: 8,192
- Memory bandwidth: 32 Gbps
- Latency (typical): (plus frame time)
 - <5 uS
- Ethernet isolation: 1,500 Vrms 1 minute
- Console ports: RS-232 (RJ45) and USB

RJ45 Copper Ports

- Up to 8 RJ45 ports fully IEEE 802.3 compliant
- Speed (10/100) and duplex settings (full or half): auto-detecting or manually configurable
- Auto-MDI/MDIX-crossover automatically supports either straight or crossed cables
- Auto-polarity for automatic correction of crossed TD and RD pairs

Gigabit Ports

- Combo Gigabit ports: 4 both with RJ45 and SFP cage
- SFP (pluggable): Mini-GBIC transceivers with speeds of 1,000 Mbps or 100 Mbps
- See datasheet for fiber transceiver specifications

Networking & Management

- Devices supported: all IEEE 802.3 compliant
- Protocols: SNMPv1/v2/v3, RMON, DHCP, STP, TFTP, STP, RSTP, QoS/CoS/ToS/DS, IGMPv1/v2, VLAN (tag and port based), HTTP, HTTPS (SSL and TLS), Telnet and SSH
- Industrial connectivity protocols supported: Modbus/TCP, EtherNet/IP, PROFINet and foundation fieldbus HSE
- Management interfaces: text (Telnet and SSH), CLI (command line interface) and SNMP (see the user manual for supported MIBs)
- Modbus registers for port, power and ring status

All specifications are subject to change. Contact Sixnet to learn more.

Power Input & Alarm Output

- Dual power inputs for redundant power supplies
- Input voltage range: 10 to 30 VDC
- Power consumption: (typical with all ports linked and active)
 - 12 W with no fiber transceivers
 - 15 W with no fiber transceivers
- Surge and spike protection: 15 kW peak, 5 kW(10 times for 10 uS)
- Alarm output:
 - Same voltage as power inputs
 - 0.5 amps maximum

Environmental

- Operating temperature: -40 to 75°C
- Cold startup: -40°C
- Storage temperature: -40 to 85°C
- Humidity: 5 to 95% RH (non-condensing; conformal coating optional)
- Shock and vibration: IEC60068-2-6 and -27

Standards & Compliance

- Standards: IEEE 802.3, 802.3u, 802.3x, 802.1D/w, 802.1p and 802.1Q
- Electrical safety: UL508, CSA C22.2/14; EN61010-1, CE
- EMC: FCC part 15, ICES-003; EN610006-2/4, CE
- Hazardous locations: UL1604, CSA C22.2/213 (Class I, Div 2); EN60079-15 (Zone 2; Category 3), CE (ATEX)
- Marine/maritime/offshore rated per ABS
- NEMA TS-2 for traffic control systems
- MTBF: 1,000,000+ per MIL-HNDBK-217F2

Mechanical

- Material: corrosion-resistant aluminum
- Ingress protection: IP40
- Mounting: DIN-rail or direct-to-panel
- Weight: 10 oz. (0.28kg)
- Dimensions: 4.21" x 1.60" x 5.20" (10.70cm x 4.07cm x 13.21cm)

Warranty

- 5 years on design and manufacturing defects

ABOUT SIXNET

Celebrating over 35 years in operation, Sixnet provides innovative machine-to-machine (M2M) industrial networking solutions that integrate wireless, automation and switching technologies to better serve customers and markets worldwide. Sixnet's flexible solutions enable organizations to cost-effectively increase business productivity. By integrating powerful enterprise-class networking with rugged reliability, Sixnet meets the standards of the most demanding applications in industries such as power & energy, banking & retail, transportation, video & security, utilities, military, mobile data, maritime and more. Based in Ballston Lake, NY, the company has offices across North America, Asia and Europe.

For more information, visit www.sixnet.com, email sales@sixnet.com or call +1 518 877 5173

ORDER GUIDE

PART NUMBER	DESCRIPTION
SLX-8MG-1	8 Gigabit RJ45 including 4 combo SFP



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