ALL-GIGABIT INDUSTRIAL ETHERNET MANAGED SWITCH

The SLX-8MG-1 is an 8 port “all-Gigabit” industrial Ethernet managed switch that is designed to be rugged, reliable, real-time and secure. It combines compact DIN rail packaging, protected circuitry and powerful software to keep your system going even in the toughest conditions.

PRODUCT HIGHLIGHTS

- 8 Gigabit ports for 10/100/1000 Ethernet links
- 4 advanced combination ports accept copper RJ45 or noise-immune fiber optic links up to 80+ km
- Fully managed w/ advanced features and security
- Flexible mounting on DIN rail or direct to panel
- Truly rugged design for -40 to +75°C operation

REAL-TIME SECURE PERFORMANCE

- Rapid Spanning Tree (RSTP) and Real-Time-Ring™ 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 conifuration 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
- Wide temperature -40 to +75 °C operation – no fans!
- 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

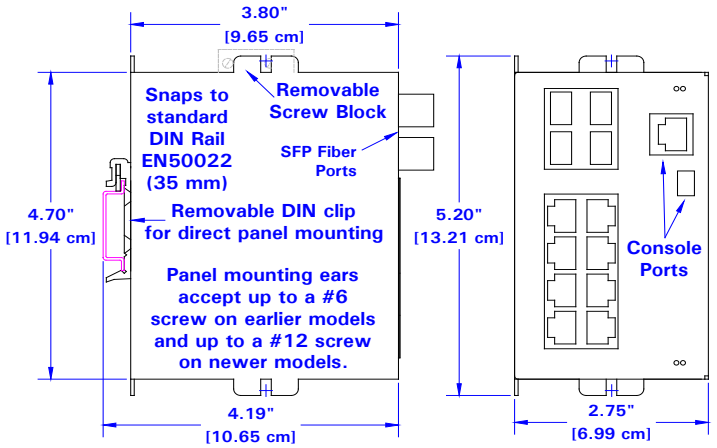
ETHERNET PERFORMANCE

- 8 Ethernet ports (all Gigabit)
- Ethernet switch type managed
- Store and forward wire speed switching
- Ethernet protocols supported by all IEEE 802.3
- RJ45 ports (shielded) 10/100/1000BaseTX
- RJ45 speed (10, 100 or 1000) auto-negotiation
- RJ45 MDI/MDIX auto-crossover
- RJ45 TD and RD polarity auto-polarity
- Ethernet isolation 1500 VRMS 1 minute
- Four ports are combination gigabit ports that have both a RJ45 connector and SFP fiber connector. For each of these ports, only one of the connectors can be used at a time.
- SFP (pluggable) ports accepts mini-GBIC transceivers
- Fiber optic port speed 1000Base or 100Base depending on transceiver populated
- Fiber optic port wavelength for typical gigabit transceivers 850 nm (mm), 1310 nm (sm) or 1550 nm (long haul sm) center
- Fiber multimode (mm) typical 50 or 62.5/125 um (LC typical)
- Fiber singlemode (sm) typical 9 or 10 /125 um (LC typical)
- Fiber typ. distance (full duplex) 0.55-1.1 km (mm); 10+ km (sm); up to 70+ km (long haul sm)
- See separate fiber transceiver datasheet for more details
- Typical latency <5 us plus frame time; varies on load and settings
- Full or half duplex operation configurable per port
- MAC addresses supported 8192
- Memory bandwidth 32 Gbps
- Console ports RS232 (RJ45) and USB

ETHERNET COMPLIANCE

- IEEE 802.3ab/z (Gigabit 1000 Mbps Ethernet links)
- IEEE 802.3u (Fast Ethernet 100Mbps for newer devices)
- IEEE 802.3 (10Mbps Ethernet supports legacy 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)

MECHANICAL DRAWING



See the User Manual for a More Detailed Diagram

POWER INPUT

- Redundant input terminals
- Input power (typical with all ports linked and active)
  - 12 W (8-ports without fiber)
  - 15 W (8-ports with 4 fiber)
- Input voltage (all models) 10-30 VDC
- Transient protection 15,000 watts peak
- Spike protection 5,000 watts (10 times for 10 uS)

"OK" OUTPUT

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

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 IEC6008-2-6, -27, -32

STANDARDS COMPLIANCE

- Electrical safety UL508/CSA C22.2/14: EN61010-1, CE
- EMC emissions and immunity FCC part 15, ICES-003; EN61000-6-4, EN61000-6-2, CE
- Hazardous locations: UL1604, CSA C22.2/213 (Class 1, Div. 2), EN60079-15 (Zone 2, Category 3), CE (ATEX)
- Marine and offshore rated per ABS

PHYSICAL

- Corrosion-resistant aluminum with IP30 protection
- Din rail mounting or direct to panel (2 ways)
- Dimensions - see mechanical drawing
- Weight 12 oz. (0.34 kg)

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

ORDERING GUIDE

SLX-8MG-1	8 RJ45 with 4 SFP slots
GMFIBER-SFP-500	Gigabit SFP fiber transceiver, mm, 550 m
GMFIBER-SFP-2K	Gigabit SFP fiber transceiver, mm, 2 km
GSFIBER-SFP-10K	Gigabit SFP fiber transceiver, sm, 10 km
GSFIBER-SFP-30K	Gigabit SFP fiber transceiver, sm, 30 km
GSFIBER-SFP-50K	Gigabit SFP fiber transceiver, sm, 50 km
GSFIBER-SFP-80K	Gigabit SFP fiber transceiver, sm, 80 km
FMFIBER-SFP-4K	100Mb SFP fiber transceiver, mm, 4 km
FSFIBER-SFP-30K	100Mb SFP fiber transceiver, sm, 30 km
FSFIBER-SFP-60K	100Mb SFP fiber transceiver, sm, 60 km
FSFIBER-SFP-100	100Mb SFP fiber transceiver, sm, 100 km

Note: Special (such as Bi-Di) or extra long haul (up to 120 km) are available special order.

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Datasheet SLX-8MG-1
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