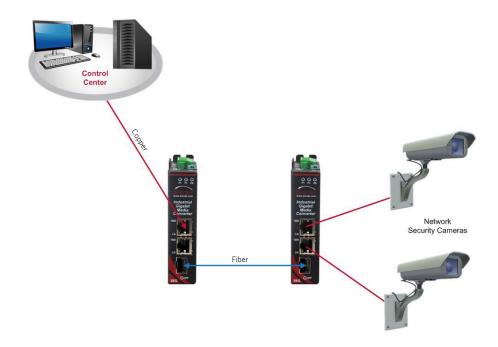**DATASHEET**

SLX-3EG Industrial Ethernet Media Converter
SlimLine Plus Gigabit Industrial Connectivity

The SLX-3EG is a 3 port all Gigabit industrial Ethernet media converter that provides fast performance to enable real-time operation in industrial networking applications. With rugged packaging that offers superior reliability in the harshest of conditions, our easy-to-use converters require no user setup and immediately start operating upon power up.

APPLICATION SCENARIO: VIDEO & SECURITY

PRODUCT HIGHLIGHTS

- 2 Gigabit Ethernet ports (10/100/1000)
- 1 Gigabit SFP port
- High performance and reliability
- Industrial-hardened design

APPLICATIONS

- Video & Security
- Transportation
- Oil & Gas
- Mining
- Maritime

FEATURES & BENEFITS

Real-Time Ethernet Performance
- **Provides plug-and-play simplicity**
- **Offers ease of use**
  - All Gigabit ports
  - Flexible fiber configuration via SFP
  - Auto-sensing for speed and duplex
  - Auto-MDI/MDIX-crossover works with straight or crossed cables
  - Auto-polarity corrects for crossed signals
  - No user configuration required
  - Dual redundant power inputs

Rugged, Reliable Operation
- **Supports deployment in extreme environments**
- **Provides high reliability in the toughest applications**
  - Ultra-reliable 1,000,000+ hours MTBF
  - -40° to +85°C operating temperature
  - Rugged corrosion-resistant metal enclosure
  - Hazardous locations for Class I, Div 2 and Zone 2

CONNECT. MONITOR. CONTROL.

SPECIFICATIONS

Ethernet Performance
- Type: unmanaged
- Operation: store and forward wire-speed switching, non-blocking
- Modes: full or half duplex operation with flow control on all ports
- MAC addresses: 1,024
- Memory bandwidth: 3.2 Gbps
- Latency (typical/plus frame time)
- – 5 µS for 100 Mbps
- – 16 µS for 10 Mbps
- Jumbo frames: up to 10K
- Ethernet isolation: 1,500 Vrms 1 minute

RJ45 Copper Ports
- 2 RJ45 ports fully IEEE 802.3 compliant
- Speed (10/100/1000) and duplex settings (full or half): auto-detecting
- Auto-MDI/MDIX-crossover automatically supports either straight or crossed cables
- Auto-polarity for automatic correction of crossed TD and RD pairs

SFP Ports
- 1 SFP (pluggable) ports accept Mini-GBIC transceivers with speeds up to 1,000 Mbps
- See separate datasheet for fiber transceiver specifications

Power Input
- Dual power inputs for redundant power
- Reverse polarity protection
- Input voltage range: 10 to 30 VDC
- Power consumption (typical with all ports linked and active): 3.0 W
- Transient protection: 15,000 W peak
- Spike protection: 5,000 W (10 times for 10 µS)

Environmental
- Operating temperature: -40 to +85°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
- 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 compliance
- NEMA TS-2 for traffic control systems
- MTBF: >2MM hours GB @ 40°C per MIL-HNDBK-217F2
- RoHs and WEEE compliant

Mechanical
- Material: corrosion-resistant aluminum
- Ingress protection: IP40
- Mounting: DIN-rail or direct-to-panel
- Weight: 6 oz (0.17 kg)
- Dimensions: 3" x 1" x 4.50" (7.62cm x 2.54cm x 11.43cm)

Warranty
- 5 years on design and manufacturing defects

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

ORDER GUIDE

PART NUMBER	DESCRIPTION
SLX-3EG-1SFP	All Gigabit, 2 RJ45 ports and 1 SFP fiber port
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