Sixnet 6 PORT INDUSTRIAL ETHERNET UNMANAGED SWITCH

The SL/SLX-6ES-4/5 is a 6 port industrial Ethernet switch featuring 2 fast fiber optic ports. It provides advanced performance for real-time deterministic operation and is ruggedized to provide superior reliability. This switch requires no user setup and immediately starts operating as soon as you power it up. Sixnet switches are designed to make your job easier, ensuring your system will keep running for many years to come.

PRODUCT HIGHLIGHTS

- 4 fast RJ45 and 2 noise-immune fiber ports
- Truly industrial hardened design
- Slim case for DIN rail or direct panel mounting
- High performance and value
- Plug and play saves you time and money

REAL-TIME SECURE PERFORMANCE

- Fast wire-speed switching
- Intelligent routing No collisions!
- Ideal for any system

TROUBLE FREE OPERATION

- Ultra-reliable 1,000,000 + hours MTBF
- -40 to +85 °C operating range (SLX model)
- UL/CSA (CUL), CE and Hazloc (Zone 2) rated (PENDING)
- Dual power inputs keeps you running
- Industrial surge and spike protection
- Self-test/alarm output contact

Sixnet Knows Industrial

We have been designing industrial hardware such as Remote Terminal Units for over 30+ years and have used this expertise to design the toughest Ethernet switches on the market. Don't trust your critical communications to so-called industrial hardware from commercial switch manufacturers. Sixnet switches give you proven assurance that your system will keep running for years to come.



SLX-6ES-4/5 Aluminum Case Wide Temperature



SL-6ES-4/5 Lexan Case Standard Temperature

6 PORT INDUSTRIAL ETHERNET UNMANAGED SWITCH

ETHERNET PERFORMANCE

- 4 fast RJ45 and 2 fiber optic ports
- Unmanaged, store & forward, wire-speed
- All IEEE 802.3 Ethernet protocols supported
- RJ45 ports (shielded) 10/100BaseTX
- RJ45 port speed auto-negotiation
- RJ45 MDI/MDIX auto-crossover
- RJ45 TD and RD auto-polarity
- Fiber on ports 5 and 6
- Fiber optic port speed: 100 Mbps
- Fiber typical specs (see separate datasheet for details)
 Multimode, 4 km, 1310 nm, 50-62.5/125 µm
 - Singlemode, 20 km, 1310 nm, 9-10/125 µm
 - Long haul, up to 120 km, 1550 nm, 9-10/125 μm
- Typical latency (varies on load & settings)
 - @ 10 Mbps: 16 us + frame time
 - @ 100 Mbps: 5 us + frame time
- Full duplex operation with flow control
- MAC addresses supported 1024
- Memory bandwidth 3.2 Gbps
- Ethernet isolation 1500 VRMS 1 minute

ETHERNET COMPLIANCE

- 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)

POWER INPUT

- Redundant input terminals
- Reverse polarity protection
- Input power (typ. with all ports active)
 - □ 5 W (-4/5 model w/ 2 fiber)
- Power input voltage 10-30 VDC
- Transient protection 15,000 watts peak
- Spike protection 5,000 watts (10x for 10 uS)

ENVIRONMENTAL

- Operating temperature:
 - SLX: -40 to +85 °C (cold startup at -40 °C)
 - SL: -40 to +60 °C
- Storage temperature -40 to +85 °C
- Humidity (non-condensing) 5 to 95% RH (optional conformal coating is available)
- Vibration and shock IEC60068-2-6, -27, -32

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

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SOLUTIONS FOR YOUR INDUSTRIAL NETWORKING CHALLENGES

"OK" ALARM OUTPUT

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

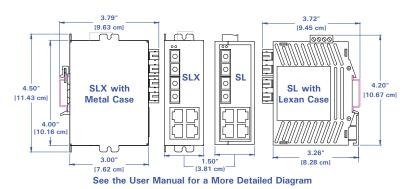
PHYSICAL

- DIN rail or direct panel mounting
- Case Aluminum (SLX) or Lexan (SL)
- Ingress protection IP30
- Weight SLX: 0.23 kg (8 oz.); SL: 0.17 kg (6 oz.)
- Dimensions see mechanical diagram

STANDARDS COMPLIANCE

- Electrical safety UL508 / CSA C22.2/14 (PENDING); EN61010-1, CE
- EMC FCC part 15, ICES-003; EN61000-6-2/4
- Hazardous locations UL1604 / CSA C22.2/213 (Class I, Div. 2) (PENDING); EN60079-15 (Zone 2, Category 3), CE (ATEX)
- Maritime designed for marine and offshore per ABS
- RoHS and WEEE compliant
- ISO9001:2000 certified company

MECHANICAL DRAWING



ORDERING GUIDE

SLX-6ES-4SC	4 RJ45 ports, 2 multimode SC, 4 km
SLX-6ES-4ST	4 RJ45 ports, 2 multimode ST, 4 km
SLX-6ES-5SC	4 RJ45 ports, 2 singlemode SC, 20 km
SLX-6ES-5ST	4 RJ45 ports, 2 singlemode ST, 20 km
SLX-6ES-5SCL	4 RJ45 ports, 2 singlemode SC, 40 km
SLX-6ES-5STL	4 RJ45 ports, 2 singlemode ST, 40 km
SL-	w/ Lexan case and limited temperature
ET-PS-024-02	Power supply – AC to 24VDC, 2A
SP-ETH-2	Dual port Ethernet surge and lightning protector for the 10/100 ports only

NOTE: Contact Sixnet for special or long haul fiber transceivers up to 120 km

Datasheet SL/SLX-6ES-4/5 Rev July 09, 2009

ALLENGES WWW.SIXNET.COM