



INDUSTRIAL CONNECTIVITY

## RUGGED ETHERNET SWITCHES



[www.sixnet.com](http://www.sixnet.com)

# INDUSTRIAL CONNECTIVITY

Sixnet's industrial Ethernet switches combine enterprise-class performance with rugged reliability to provide a "best of both worlds" solution for many of today's industrial applications. Our hardened switches are ideally suited for harsh and outdoor environments that include power substations, Smart Grid, military, utility, transportation and other industries where real-time performance under extreme operating conditions is required. Built-in redundancy coupled with advanced security and network management ensures the infrastructure stays up running while providing tools for monitoring and tracking.

rugged reliable

switches



# Heavy Industrial

## EL228 28-PORT MANAGED ETHERNET SWITCH



### ■ Innovative enterprise-class networking in a rugged package

- Advanced security prevents unauthorized access and enables policy enforcement
- Real-time message delivery prioritizes data to eliminate network congestion
- Sophisticated multicast controls reduce traffic to ensure optimal application performance
- Built-in redundancy ensures quick failover to drive reliability
- Powerful network management and plug and play functionality eases configuration and speeds troubleshooting
- Rugged substation design and protected circuitry supports the harshest of applications

### ■ Industry standards support

- IEC 61850-3 and IEEE 1613 (EMI, RFI, ESD, temperature, vibration and shock)
- KEMA and IEC 61850-5 GOOSE approved

### ■ Ultimate design flexibility

- 24 Fast Ethernet SFP on a single platform
- Support for any mix of transceivers enables easy configuration and upgrades
- Sixnet-exclusive universal mounting allows front or rear wiring and bracket options

MODEL	TYPE	TOTAL PORTS	FAST ETHERNET		GIGABIT ETHERNET		INGRESS PROTECT	MOUNTING & CASE	OPERATING TEMP
			10 / 100	100 FIBER	10 / 100 / 1000	GIG FIBER			
<b>EL228-AO-1</b> <i>single universal VAC / VDC power input</i>	Managed	28	up to 24	up to 26	4	up to 2	IP50	19" rack	-40 to 85° C
<b>EL228-AA-1</b> <i>dual universal VAC / VDC power input</i>	Managed	28	up to 24	up to 26	4	up to 2	IP50	19" rack	-40 to 85° C
<b>EL228-DO-1</b> <i>single 24 / 48 / 60 VDC power input</i>	Managed	28	up to 24	up to 26	4	up to 2	IP50	19" rack	-40 to 85° C
<b>EL228-DD-1</b> <i>dual 24 / 48 / 60 VDC power input</i>	Managed	28	up to 24	up to 26	4	up to 2	IP50	19" rack	-40 to 85° C

*“A so-called ‘smart grid’ is going to need smarter switches, and in fact all of industrial networking is headed in that direction, as Sixnet recently pointed out during the introduction of its latest switch.”*

— NetworkWorld

FLEXIBLE. RELIABLE. POWERFUL.

# Standard Industrial

## SLX ETHERNET SWITCHES

- **Versatile networking solutions for any budget**
  - Managed, unmanaged, ring and PoE switches
- **Flexible deployment options**
  - 5 to 18 port DIN rail style
  - Plug and play functionality works out of box
  - Fast redundant ring and mesh network support
- **Advanced features and security**
  - Configurable network management
  - Real-time data access and prioritization
- **Hardened for the toughest applications**
  - Supports temperatures ranging from -40 to 75 / 85°C



MODEL	TYPE	TOTAL PORTS	FAST ETHERNET		GIGABIT ETHERNET		INGRESS PROTECT	MOUNTING & CASE	OPERATING TEMP
			10 / 100	100 FIBER	10 / 100 / 1000	GIG FIBER			
SLX-5MS-1	Managed	5	5	—	—	—	IP30	DIN rail - metal	-40 to 75° C
SLX-5MS-4/5	Managed	5	3	2	—	—	IP30	DIN rail - metal	-40 to 75° C
SLX-5MS-MDM-1	Managed	5	5	—	—	—	IP30	DIN rail - metal	-40 to 75° C
SLX-8MS-1	Managed	8	8	—	—	—	IP30	DIN rail - metal	-40 to 75° C
SLX-8MS-4/5/8/9	Managed	8	4 or 6	2 or 4	—	—	IP30	DIN rail - metal	-40 to 75° C
SLX-8MG-1	Managed	8	—	up to 4	8	up to 4	IP30	DIN rail - metal	-40 to 75° C
SLX-10MG-1	Managed	10	8	up to 2	2	up to 2	IP30	DIN rail - metal	-40 to 75° C
SLX-16MS-1	Managed	16	16	—	—	—	IP30	DIN rail - metal	-40 to 75° C
SLX-18MG-1	Managed	18	16	up to 2	2	up to 2	IP30	DIN rail - metal	-40 to 75° C
SLX-5ES-1	Unmanaged	5	5	—	—	—	IP30	DIN rail - metal	-40 to 85° C
SLX-5ES-2/3	Unmanaged	5	4	1	—	—	IP30	DIN rail - metal	-40 to 85° C
SLX-6ES-4/5	Unmanaged	6	4	2	—	—	IP30	DIN rail - metal	-40 to 85° C
SLX-8ES-1	Unmanaged	8	8	—	—	—	IP30	DIN rail - metal	-40 to 85° C
SLX-8ES-6/7	Unmanaged	8	5	3	—	—	IP30	DIN rail - metal	-40 to 85° C
SLX-9ES-2/3	Unmanaged	9	8	1	—	—	IP30	DIN rail - metal	-40 to 85° C
SLX-6RS-1	Ring	6	6	—	—	—	IP30	DIN rail - metal	-40 to 85° C
SLX-6RS-4/5	Ring	6	4	2	—	—	IP30	DIN rail - metal	-40 to 85° C



# Light Industrial

## SL ETHERNET SWITCHES

- **Robust-edge devices**
  - Unmanaged and ring switches
- **Flexible deployment options**
  - 5 to 9 port DIN rail or panel mount
  - Plug and play functionality works out of box
- **Trouble-free operation**
  - Ultra-reliable 1,000,000+ hours MTBF
  - Dual power inputs with industrial spike protection
- **Indoor rated**
  - Supports temperatures ranging from -40 to 60°C



MODEL	TYPE	TOTAL PORTS	FAST ETHERNET		GIGABIT ETHERNET		INGRESS PROTECT	MOUNTING & CASE	OPERATING TEMP
			10 / 100	100 FIBER	10 / 100 / 1000	GIG FIBER			
SL-5ES-1	Unmanaged	5	5	—	—	—	IP30	DIN rail - Lexan	-10 to 60° C
SL-5ES-2/3	Unmanaged	5	4	1	—	—	IP30	DIN rail - Lexan	-10 to 60° C
SL-6ES-4/5	Unmanaged	6	4	2	—	—	IP30	DIN rail - Lexan	-40 to 60° C
SL-8ES-1	Unmanaged	8	8	—	—	—	IP30	DIN rail - Lexan	-40 to 60° C
SL-9ES-2/3	Unmanaged	9	8	1	—	—	IP30	DIN rail - Lexan	-40 to 60° C
SL-6RS-1	Ring	6	6	—	—	—	IP30	DIN rail - Lexan	-40 to 60° C
SL-6RS-4/5	Ring	6	4	2	—	—	IP30	DIN rail - Lexan	-40 to 60° C

*“Sixnet is offering specialized ‘rugged’ infrastructure solution packages that provide the kind of durability, reliability and redundancy needed to get the job done.” — Smart Technology*

*“Managed switch delivers ‘lowest cost ownership’.” — Drives & Controls*



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# About

For more than three decades, Sixnet has been providing leading industrial and commercial machine-to-machine (M2M) connectivity to 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 industrial and commercial 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](http://www.sixnet.com),  
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