Industrial Managed Ethernet Switches
ESW500 Series

PRODUCT FEATURES

- Supports IEEE 802.3 10Base-T,802.3u 100Base-TX
- RJ-45 port supports auto MDI/MDI-X function
- SC single mode and multi mode fiber connectors
- Gigabit options with copper and SFP combo ports
- Web browser management and configuration
- Ring On redundant rapid recovery system, 15 mS
- Rapid spanning tree protocol recover system
- IGMP with query mode for multimedia application
- Port based VLAN / 802.1 Q Tag VLAN
- Relay alarm output for system events
- Port mirroring for diagnostics
- 256K bytes packet buffer
- 8k MAC address table
- NEMA TS2 (ESW508-T)
- Shock and vibration tested
- -10 to 60°C or -40 to 75°C (-T models) temperature rating

The Elinx™ family of Managed DIN rail mount Ethernet switches have been designed to meet industrial and commercial communication requirements.

Switch configurations range from 8 ports to 16 ports featuring all RJ45 copper to RJ45 copper with multi mode, single mode, and or SFP Gigabit ports.

RingOn Technology

Two ports can be used for network redundancy by implementing RingOn technology providing a rapid recovery system for industrial networks. If any part of the ring disconnects the network communications will automatically be restored.

Web-based Management

Each switch has an embedded HTML web site residing in flash memory, offering advanced management features allowing users to manage the switch from anywhere on the network via a standard web browser.

VLAN Configuration

A Virtual LAN (VLAN) is a logical network grouping that limits the broadcast domain. This allows you to isolate network traffic so that members of a VLAN will only receive traffic from other members of the same VLAN. Creating a VLAN from a switch is the logical equivalent of reconnecting a group of network devices to another Layer 2 switch. However, since it is a virtual network, the network devices remain connected to the same switch physically. Both port-based and 802.1Q (tagged-based) VLAN are supported.

ORDERING INFORMATION

MODEL	10/100	10/100/1000	SFP 1000	MULTI-MODE FIBER	SINGLE-MODE FIBER	TEMPERATURE
ESW508	8					-10 to 60°C
ESW516	16					-10 to 60°C
ESW508-T*	8					-40 to 75°C
ESW508-2MC-T	6			2 (SC)		-40 to 75°C
ESW508-2SC-T	6				2 (SC)	-40 to 75°C
ESW516-T	16					-40 to 75°C

*NEMA TS2

ACCESSORIES

MDR-60-24 - DIN Rail Power supply 24VDC, 2.5A, 60W

C5UMB3FBL - 3 ft. (1 M) - Blue - Category 5e UTP Patch Cord

DFMM-STST-1M - Multi-Mode Duplex Fiber Cable, ST To ST, 1 Meter

DFSM-SCSC-1M - Single-Mode Duplex Fiber Cable, SC To SC, 1 Meter

SPECIFICATIONS

TECHNOLOGY

Standards and Managed Protocols	• IEEE802.3, 802.3u,802.3ab,802.3z, 802.3x • IEEE802.1D STP • IEEE802.1W RSTP • IEEE802.1p Class of Service • IEEE802.1Q VLAN Tagging • IEEE802.1ad Port Trunk with LACP • IEEE802.1x Port-Based Access Control • Protocols: SNMP V1/V2/V3, DHCP Server, SNTP, SMTP, IGMP Snooping/GMRP, LACP, RMON, HTTPS, Telnet, Syslog, HTTP • Priority Queues: 4 • IGMP Groups: 64 • Maximum VLANs:256
Processing Type	Store and forward with IEEE802.3x full duplex, non-blocking flow control
Flow Control	IEEE802.3x flow control, back pressure flow control
MAC Address Table Size	8 KB
Packet Buffer Memory	256 K bytes
Address Table Size	8K MAC Addresses

INTERFACE

RJ45 Ports	10/100BaseT(x) auto negation, Full/Half duplex, auto MDI/MDI-connection
Fiber Ports	100BaseFX ports (multi-mode or single-mode with SC connector) Mini-GBIC SFP Combo Ports
LED Indicators	Power, Link, Speed, System Status

FIBER OPTICS

Fiber Type	Distance	Wavelength	Output Power	Sensitivity
Multi-mode	2 km	1310 nm	-20 to -14 dBm	≤ - 33.9 dBm
Single mode	20 km	1310 nm	-15 to -14 dBm	≤ - 31 dBm

POWER

Input Voltage	18 to 36 VDC (All Models) 10 to 24 VAC (ESW508, ESW516 Models)
Power Consumption	20W Max
Input Connection	Terminal Block
Protection	Reverse Polarity Protection

ENVIRONMENTAL

Operating Temperature	-10 to 60°C or -40 to 75°C (Wide Temperature Models)
Storage Temperature	-40 to 80 °C
Operating Humidity	0 to 95% Non-condensing
MTBF	200,000 hours

MECHANICAL

Enclosure	IP 30 Metal
Dimensions	See drawings
Installation	DIN rail and Panel mount

REGULATORY APPROVALS

CE, FCC, RoHS - Yes, NEMA TS2 (ESW508-T)
EN61000-6-1 Shock & Vibration Tested

SPECIFICATIONS - EN 61000-6-1: 2006

TEST	DESCRIPTION	TEST LEVEL		LEVEL
EN55022: 2006 + A1:2007	Class B Emissions			
EN61000-4-2: 2009	Electro-Static Discharge (ESD)	Enclosure Contact Enclosure Air	6kV 8kV	3 3
EN61000-4-3:2006+A1:2008	Radiated Field Immunity (RFI)	Enclosure Ports	10V/m	3
EN61000-4-4:2004	Burst (Fast Transient)	Signal Ports DC Ports	0.5kV@2.5Khz 1kV	2 2
EN61000-4-5:2006	Surge	Signal Ports DC Power Ports	1kV 2kV	3 3
EN61000-4-6: 2009	Induced (Conductive) RFI	Signal Ports DC Power Ports	10 V RMS 10 V RMS	3 3
ENVIRONMENTAL				
IEC60068-2-6	Vibration	Test Fc	2G	-
IEC60068-2-27	Shock	Test Ea	30G	-

MECHANICAL DIAGRAM