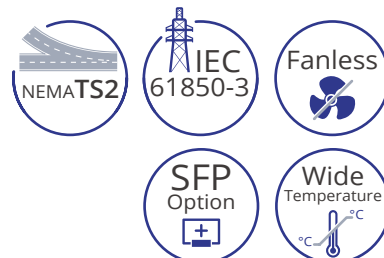


EX73900E Series

Hardened Managed 10 to 16-Port Gigabit Ethernet Switch



Product Highlights

➔ High Bandwidth and Versatility

- 8 or 12 10/100/1000BASE-T(X) ports for high bandwidth connections
- Up to 4 dual-rate 100/1000BASE SFP uplink ports for fiber connections
- Full capacity switching running at full duplex

➔ Hardened-Grade for Non-Ventilated & Harsh Environments

- Wide operating temperature range -40 to 75°C (-40 to 167°F)
- Fanless operation
- High impact, thermal shock, and electrical noise resistance

➔ Lite Layer 3 Functionality

- Static routing, RIP v1/v2, and OSPF support
- Redundancy with VRRP
- Reduces amount of broadcast traffic

➔ Compliance

- IEC 61850-3/IEEE 1613 certified for power substations
- NEMA TS2 rated
- UL certified for safety

➔ Management/Security Features

- Port control
- Dying gasp feature provides SNMP trap upon power off
- Configure and monitor with eVue™ and eLite™

➔ Support

- Complimentary Technical Support
- Free Firmware Upgrades
- Limited Lifetime Warranty

Overview

EtherWAN's EX73900E series is a hardened DIN-rail mounted managed Ethernet switch platform. Equipped with up to 12 gigabit Ethernet and 4 dual-rate gigabit SFP ports, the EX73900E series provides flexibility, speed, and reliability to support networks for urban infrastructure, transportation, security, power substations, and other areas where connectivity is crucial.

Ordering Information

Models

EX73934E-0VB	12-port 10/100/1000BASE-T(X) + 4-port 100/1000BASE SFP
EX73924E-0VB	8-port 10/100/1000BASE-T(X) + 4-port 100/1000BASE SFP
EX73922E-0VB	8-port 10/100/1000BASE-T(X) + 2-port 100/1000BASE SFP

Software Features

Interface	+
CLI, Telnet, Web GUI	
Management	+
Firmware upgrade	
Configuration backup	
DHCP Server/Client	
RMON (Remote Monitoring)	
Port Mirroring	
NTP (Network Time Protocol) synchronization	
LLDP (Link Layer Discovery Protocol)	
IPv4/IPv6	
SNMP v1/v2c/v3	
Security	+
MAC Address filtering	
Enable/Disable port	
Storm Control	
System Logging	
IEEE 802.1x LAN Access Control	
Remote authentication through RADIUS and TACACS+	
Complex password support	
Multi-user login and privileged access management	
SSH for CLI and Telnet security	
SSL and HTTPS for Web security	
ACL (Access Control List, up to 4096 entries)	
Quality of Service (QoS)	+
Priority Queues: 8 queues per port	
Traffic classification based on IEEE 802.1p CoS (Cost of Service), DSCP (Differentiated Services Code Point), WRR (Weighted Round Robin), and strict mode	
Rate Limiting (Ingress/Egress)	

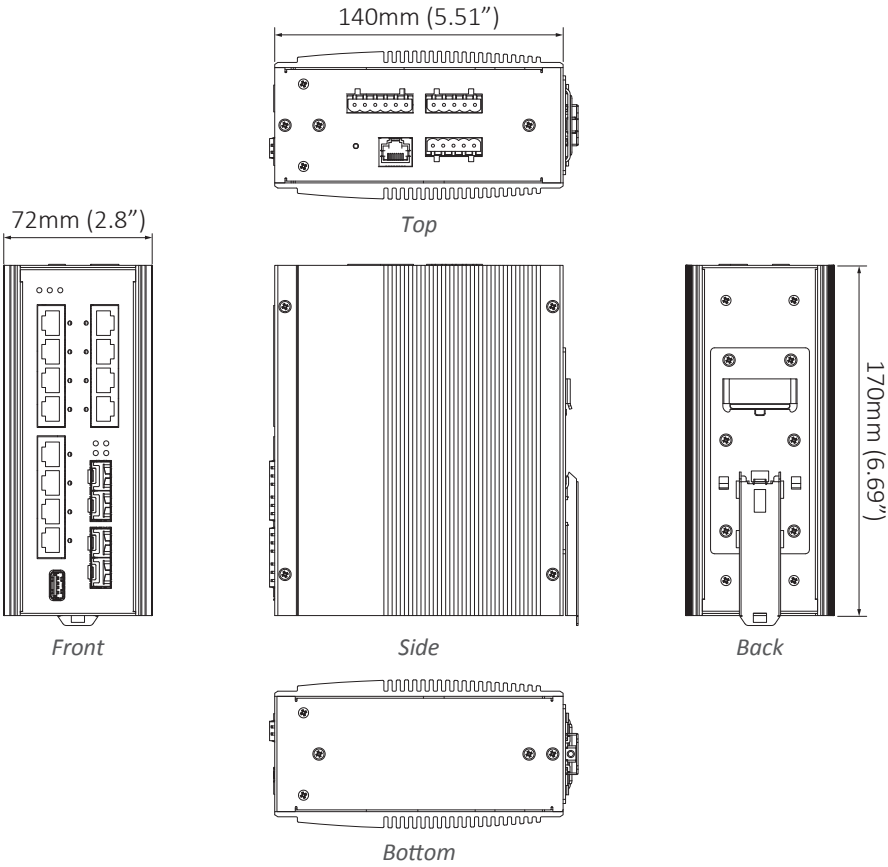
Layer 2 Features	+
Auto-negotiation for port speed and duplex	Flow Control IEEE 802.3x full duplex mode Back-pressure half duplex mode
Redundant Protocols	IEEE 802.1D STP IEEE 802.1w RSTP IEEE 802.1s MSTP EtherWAN's Alpha-Ring network fault recovery
VLANs	IEEE 802.1Q Tag VLANs GVRP GMRP
Link Aggregation	Static Trunk (4 groups) IEEE 802.3ad LACP
IGMP Snooping v1/v2/v3	
Layer 3 Features	+
IP Packet Routing	Maximum number of routes in hardware: 64 entries Static Routing RIP v1/v2 OSPF v2
Routing Redundancy	VRRP
Software Properties and Performance	+
Switching Fabric	32Gbps
Forwarding Rate	23.5Mpps
Total VLAN Entries	256 (4096 VID)
Jumbo Frame Size	9KB
MAC Table Size	16K
Packet Buffer Memory	12M bits

Hardware Specifications

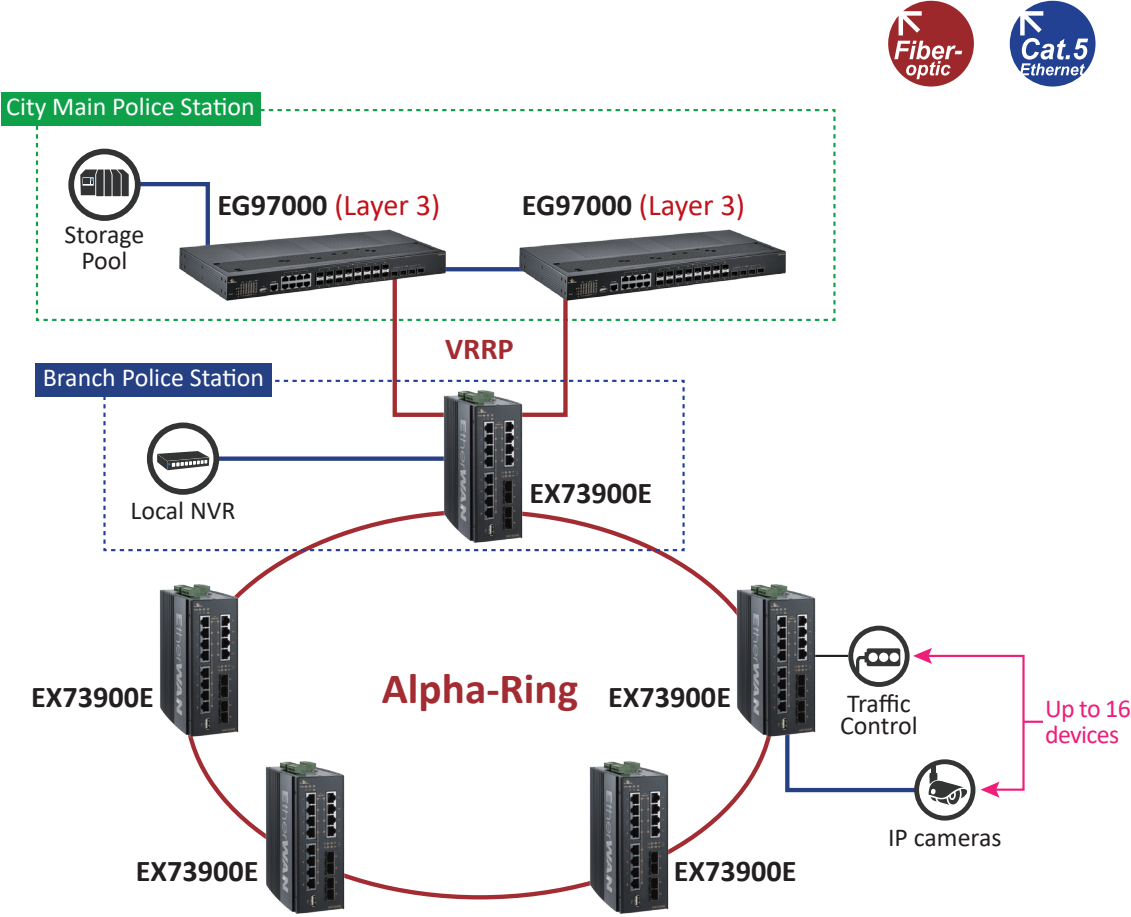
Interface +	
Ethernet	8 or 12 x 10/100/1000BASE-T(X) 2 or 4 x 100/1000BASE SFP
Console	1 x RJ45
Config Backup	1 x USB (Type A Connector)
Digital Input	2 x Digital Input Wet Contact: 0-3V for State 0 13-30V for State 1 Max input current: 8mA Dry Contact: Logic Level 1-Close to GND Logic Level 0-Open
Alarm Contact	2 x Relay output, current capacity 0.6A/30VDC
LED Indicators	Per Unit: Power 1, Power 2, Alarm Per Port: Link/Activity
Technology +	
Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3ab 1000BASE-T IEEE 802.3ad link aggregation control IEEE 802.3z 1000BASE-SX/1000BASE-LX IEEE 802.3x full duplex and flow control IEEE 802.1D STP IEEE 802.1p QoS IEEE 802.1Q Tag VLANs IEEE 802.1s MSTP IEEE 802.1w RSTP IEEE 802.1x PNAC IEEE 802.1ab LLDP IEEE 802.3az EEE
Forward/Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps 1,488,100pps for 1000Mbps
Processing Type	Store-and-forward Auto-negotiation Half-duplex back-pressure and full-duplex flow control Auto MDI/MDIX
System Memory	2Gb DDR3 SDRAM
Flash Storage	1Gb
Power +	
Input	12-48VDC Redundant (Terminal block)
Power Consumption	20W Max
Protection	Reverse Polarity Protection Overload Current Protection
Physical +	
Casing Material	Aluminum
IP Rating	IP40
Dimensions	72 x 140 x 170mm (W x D x H) 2.8" x 5.5" x 6.7"
Weight	1.4kg (3.08lbs)
Installation Type	DIN-rail mounting

Environmental +	
Operating Temp.	-40 to 75°C (-40 to 167°F)
Storage Temp.	-45 to 85°C (-49 to 185°F)
Relative Humidity	5% to 95% (non-condensing)
MTBF	2,046,665 hours
Regulatory +	
ISO	Manufactured in ISO-9001 facility
EMI	FCC Part 15B Class A VCCI Class A EN 61000-6-4 EN 61000-3-2 EN 61000-3-3
EMS	EN 61000-4-2 (ESD) EN 61000-4-3 (Radiated RFI) EN 61000-4-4 (Burst) EN 61000-4-5 (Surge) EN 61000-4-6 (Induced RFI) EN 61000-4-8 (Magnetic field)
Safety	UL 61010
Traffic	NEMA TS2
Rail	EN 50121-4
Power Substation	IEC 61850-3/IEEE 1613
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Free Fall	FED STD 101C Method 5007.1
Warranty +	
Length	Limited Lifetime
Details	www.etherwan.com/support/warranty-policy
What's Included +	
Device	Ethernet Switch
Cables	1 Console Cable
Installation	Mounting brackets, screws
Documentation	Quick Install Guide

Dimensions



Application



Software

Network Management	eVue™ Network Configuration and Monitoring Tool
Network Discovery	eLite™ Network Discovery and IP Configuration Tool

EtherWAN

Home

Devices

Batch

Group

Events

Settings

Screen Zoom

Logout

Device List

	IP	System Name	Group
	192.168.50.12	EG99-5012	
	192.168.50.62	EX709-5062	
	192.168.50.254	R50	
	192.168.50.11	EG99-5011	
	192.168.50.63	EX74-5063	
	192.168.50.14	EX779-5014	
	192.168.50.61	EX71v2-5061	
	192.168.50.44	EX71-5044	
	192.168.50.64	EX73-5064	
	192.168.50.34	EX739-5034	

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Topology

Online

Offline

Event

Latest Events

0

0

0

Acknowledged	ID	Severity	Time	Service	Node	Message
✓	5107	Normal	6/28/2019, 9:50:35 AM	login	server	User 'admin' logged in.
✓	5106	Normal	6/27/2019, 10:00:50 AM	login	server	User 'admin' logged in.
✓	5105	Major	6/24/2019, 1:18:23 PM	ping-monitor	192.168.1.19	Web 192.168.1.19 is down.
✓	5105	Major	6/24/2019, 1:18:23 PM	ping-monitor	192.168.1.19	Telnet 192.168.1.19 is down.
✓	5104	Normal	6/24/2019, 1:12:34 PM	login	server	User 'admin' logged in.

The screenshot shows the eLite application window. The title bar reads "eLite". The menu bar includes "List Server", "Firmware", "Configuration", and "Help". Below the menu bar is a toolbar with icons for search, refresh, add, delete, and other functions. The main content area displays a table with two columns: "IP Address" and "MAC Address". The table lists 12 entries, with the first entry highlighted in blue. A vertical scrollbar is visible on the right side of the table. To the right of the table is a large empty rectangular area.

IP Address	MAC Address
192.168.50.22	00:e0:b3:50:22:00
192.168.50.31	00:e0:b3:50:31:00
192.168.50.72	00:e0:b3:50:72:00
192.168.50.55	00:e0:b3:50:55:00
192.168.50.23	00:e0:b3:50:23:00
192.168.50.73	00:e0:b3:50:73:00
192.168.50.44	00:e0:b3:50:44:00
192.168.50.64	00:e0:b3:50:64:00
192.168.50.43	00:e0:b3:50:43:00
192.168.50.62	00:e0:b3:50:62:00
192.168.50.71	00:e0:b3:50:71:00
192.168.50.24	00:e0:b3:50:24:00

Accessories

Hardened 100BASE SFP Modules	+
www.etherwan.com/products/sfp-fiber-transceiver	
Hardened Gigabit SFP Modules	+
www.etherwan.com/products/sfp-fiber-transceiver	
DIN-Rail Power Supplies	+
www.etherwan.com/products/din-rail-power-supply (*)	
*Recommended Power Supply	+
EX41-145046 Power Supply 45W 12VDC with Open Wire	