

## EX71000 系列

強固級網管型 8埠10/100BASE +2埠Gigabit 乙太網路交換器(SFP選擇組合)



### 產品介紹

EX71000強固級乙太網路交換器，配備8個10/100base連接埠及2個Gigabit光纖埠，可彈性搭配多種介面組合：SX/LX/BX/WDM及SFP插槽。支援標準備援通訊協定STP/RSTP/MSTP，透過益網獨家技術Alpha-Ring環狀網路備援機制，可在網路發生斷線時迅速啟動備援機制，於15毫秒內快速恢復連線通訊。

EX71000系列擁有完整的管理功能，支援IPV4/IPV6 協定, port security, IGMP snooping, VLANs, GARP 協定, 和LACP；可透過網頁瀏覽、Telnet、SNMP、RMON、TFTP和 RS-232 console 管理介面。工業級設計，可在-40 到 75°C 寬溫環境下穩定運作，是嚴苛關鍵網路應用架構的最佳選擇。

EtherWAN — "When Connectivity is Crucial."

## 產品亮點

### + 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

### + Compliance

EN 50121-4 certified for railway applications  
NEMA TS2 rated  
UL certified for safety

### + Management/Security Features

Port control  
802.1x port-based network access control and remote authentication through RADIUS  
Configure and monitor with eVue™ and eLite™

### + Support

Complimentary Technical Support  
Free Firmware Upgrades  
Limited Lifetime Warranty

## 產品特色

### + Interface

CLI, Telnet, Web GUI  
SNMP v1/v2c/v3

### + Management

Firmware upgrade  
Configuration backup via TFTP  
DHCP Server/Client  
RMON (Remote Monitoring): group 1, 2, 3, 9  
Port Mirroring: TX/RX and both  
NTP (Network Time Protocol) synchronization  
IEEE 802.1ab LLDP (Link Layer Discovery Protocol)  
IPv4/IPv6

### + Security

MAC Address Filtering  
Enable/Disable port  
Storm control (Broadcast and multicast types)  
IEEE 802.1x LAN Access control  
Remote authentication through RADIUS and TACACS+  
SSH for CLI and Telnet security  
SSL for web security  
System log (Remote/Local)  
Multi-level user account/password against unauthorized configuration

### + Quality of Service (QoS)

Priority Queues: 4 queues per port  
Traffic classification based on IEEE 802.1p CoS, DSCP, WRR 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 (<15ms)

#### VLANs

Port-based VLANs  
IEEE 802.1Q Tag VLANs (128 groups, 4096 VID)  
GVRP  
GMRP

#### Link Aggregation

Static Trunk (2 groups, support MAC base)  
IEEE 802.3ad LACP

IGMP Snooping v1/v2/v3

## 產品規格

### + Interface

#### Ethernet

4, 6 or 8 x 10/100BASE-T(X)

0 or 4 x 100BASE-FX

0, 1 or 2 x Gigabit

#### Console

1 x DB9 RS-232

#### Alarm Contact

1 x Relay output, current capacity 0.6A/30VDC

#### LED Indicators

Per Unit: Power 1, Power 2, Alarm

Per Port: Link/Activity, Speed

### + Technology

#### Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX/100BASE-FX

IEEE 802.3ab 1000BASE-T

IEEE 802.3z 1000BASE-SX/1000BASE-LX

IEEE 802.3x Full duplex and flow control

IEEE 802.1p QoS

IEEE 802.1Q Tag VLANs

IEEE 802.1w RSTP

IEEE 802.1x PNAC

#### Forward/Filtering Rate

14,880pps for 10Mbps

148,810pps for 100Mbps

1,488,100pps for 1000Mbps

#### Packet Buffer Memory

12M bits

#### Processing Type

Store-and-Forward

Auto-negotiation

Half-duplex back-pressure and IEEE 802.3x Full-duplex flow control

Auto MDI/MDIX

#### Address Table Size

16K MAC Addresses

### + Power

#### Input

12-48VDC Redundant (Terminal block)

#### Power Consumption

7.5W Max. 0.31A@24VDC

Protection  
Reverse Polarity Protection

## + Physical

Casing Material  
Aluminum

IP Rating  
IP30

Dimensions  
60 x 125 x 145mm (W x D x H)  
2.36" x 4.92" x 5.7"

Weight  
1.05kg

Installation Type  
DIN-rail mounting

## + Environmental

**Operating Temp.**  
-40 to 75°C (-40 to 167°F)  
Tested @ -40 to 85°C (-40 to 185°F)

**Storage Temp.**  
-45 to 85°C (-49 to 185°F)

**Relative Humidity**  
5% to 95% (non-condensing)

## + Regulatory

**ISO**  
Manufactured in ISO-9001 facility

**EMI**  
FCC Part 15B Class A  
EN 55032  
EN 61000-6-4  
EN 61000-3-2  
EN 61000-3-3

**EMS**  
EN 61000-6-2  
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  
ISA 12.12.01

**Vibration**  
IEC 60068-2-6 Fc

**Shock**  
IEC 60068-2-27 Ea

**Free Fall**  
FED STD 101C Method 5007.1

**Industrial Compliance**  
NEMA TS2  
EN 50121-4

## + Warranty

**Length**  
Limited Lifetime

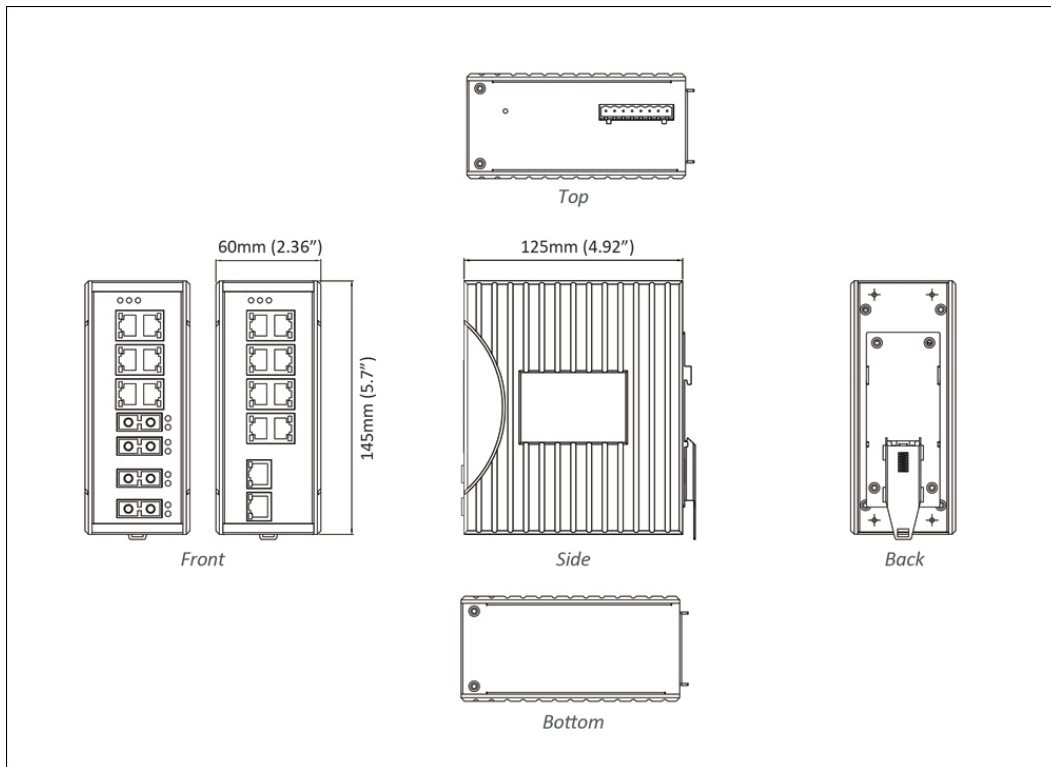
**Details**  
[www.etherwan.com/support/warranty-policy](http://www.etherwan.com/support/warranty-policy)

## + What's Included

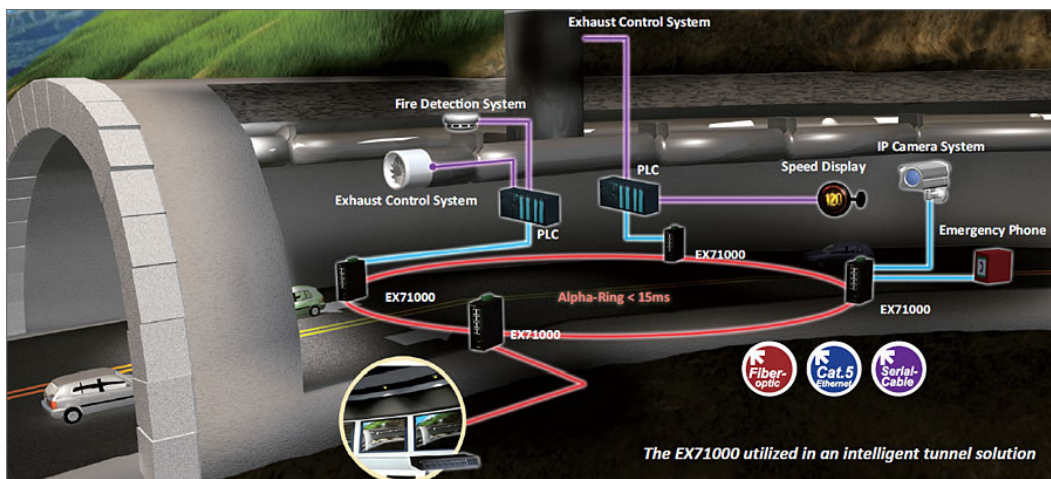
**Device**  
Ethernet Switch

Cables  
 1 Console Cable  
 Documentation  
 Quick Install Guide

## 產品尺寸圖



## 產品應用圖



# 管理軟體

Network Management [eVue™ Network Configuration and Monitoring Tool](#)  
 Network Discovery [eLite™ Network Discovery and IP Configuration Tool](#)

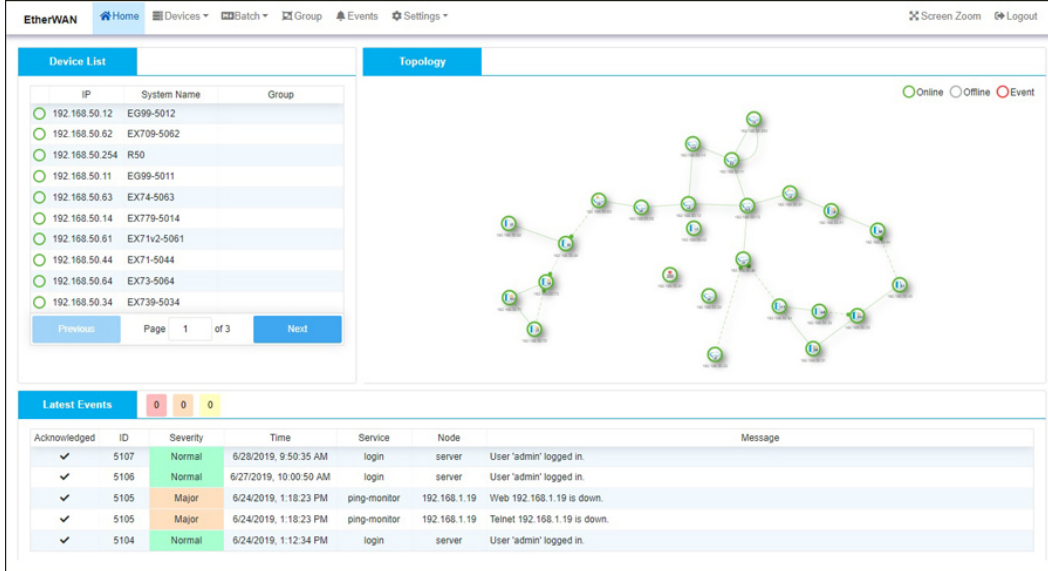
**EtherWAN** Home Devices Batch Group Events Settings Screen Zoom Logout

**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.

**eLite** List Server Firmware Configuration Help

Search
Refresh
Home
Help

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	

Ready

## 訂購型號

### + Model

<b>EX71802-0YB</b>	8-port 10/100BASE-TX + 2-port Gigabit
<b>EX71620-X0B</b>	6-port 10/100BASE-TX + 2-port 100BASE-FX
<b>EX71622-XYB</b>	6-port 10/100BASE-TX + 2-port 100BASE-FX +2-port Gigabit
<b>EX71440-X0B</b>	4-port 10/100BASE-TX + 4-port 100BASE-FX

\* DIN-Rail mounting kit included.

### + 100FX Fiber Options (X)

<b>1</b>	Multi Mode (SC) - 2Km
<b>2</b>	Multi Mode (ST) - 2Km
<b>A</b>	Single Mode (SC) - 20Km
<b>B</b>	Single Mode (SC) - 40Km
<b>V</b>	100BASE SFP (DDM)

\* More 100FX Fiber options also available upon request.

### + Gigabit Port Options (Y)

<b>1</b>	10/100/1000BASE-TX
<b>3</b>	1000BASE-SX (SC) - 550m
<b>4</b>	1000BASE-SX (SC) - 2Km
<b>5</b>	1000BASE-SX (ST) - 550m
<b>A</b>	1000BASE-LX (SC) - 10Km
<b>B</b>	1000BASE-LX (SC) - 20Km
<b>R</b>	1000BASE-BX (SC) WDM-TX: 1310nm/RX: 1550nm-20Km
<b>S</b>	1000BASE-BX (SC) WDM-TX: 1550nm/RX: 1310nm-20Km
<b>V</b>	100/1000BASE SFP (DDM)

\* More Gigabit options also available upon request.

### + Accessories

<b>Hardened SFP Modules</b>	<a href="http://www.etherwan.com/products/sfp-fiber-transceiver">www.etherwan.com/products/sfp-fiber-transceiver</a>
<b>DIN-Rail Power Supplies</b>	<a href="http://www.etherwan.com/products/din-rail-power-supply">www.etherwan.com/products/din-rail-power-supply</a>
<b>*Recommended Power Supply</b>	HDR-30-24 30W 24VDC DIN-Rail Power Supply
<b>EB-232</b>	Configuration Backup and Restoration Tool

