EX78000 系列

強固級網管型 4 - 10 埠10/100BASE (8 x PoE) +2 埠 Gigabit 乙太網路交換器



產品介紹

本產品自2026年8月6日起停產。 請點選此處 尋找替代產品

EX78000 系列為強固等級網管型乙太網路交換器，產品配備 8 個10/100BASE PoE連接埠加 2 埠 100BASE 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。Ultra PoE 網路埠，每埠最高可支援 60W，總供電瓦數為 240W，可廣泛應用於許多終端設備，例如 PTZ 球型攝影機、無線基地台及軌旁通訊設備等。

支援標準備援通訊協定 STP/RSTP/MSTP，並支援益網獨家技術 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，可在小於 15 毫秒內快速恢復連線通訊。完整的管理功能，包含 IPV4/IPV6 協定, port security, IGMP snooping, port-based VLANs, GARP 協定, 和 link aggregation；使用者可透過網頁瀏覽、Telnet、SSH、 SNMP、TFTP和 RS-232 Console 管理介面，可使嚴苛複雜的專案規劃事半功倍。

EX7800 0系列專為嚴峻戶外環境設計打造，工業等級設計，可承受強力的落摔衝擊、防震動及抗電磁波干擾，更可在 -40 到 75°C 寬溫環境下穩定運作，於嚴峻的專案規劃佈局中扮演致勝的關鍵角色。

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

PoE Features

Up to 60W/port with 240W total power budget

Long distance PoE up to 250m (820ft)

PoE watchdog monitors status of connected PoE devices

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 Browser

SNMP v1/v2c/v3

Management

Firmware and configuration upgrade and backup via TFTP

Supports 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+

Multi-user login and privileged access management

SSH for CLI and Telnet security

SSL for web security

System log (Remote/Local)

ACL

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 mode

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

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 or 8 x 10/100BASE-T(X) (PoE)

0, 2 or 4 x 100BASE FX

2 x 100/1000BASE SFP Slot

2 x Gigabit

Console

1 x DB9 RS-232

Alarm Contact

1 x Relay output, current capacity 0.5A/48VDC

LED Indicators

Per Unit: Power 1, Power 2, Alarm

Per Port: Link/Activity (Green)

Per PoE Port: (Orange)

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

IEEE 802.3af/at/bt Power over Ethernet

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

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

VCCI Class A

EN 61000-6-4

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

Vibration

IEC 60068-2-6 Fc

Shock

IEC 60068-2-27 Ea

Free Fall

FED STD 101C Method 5007.1

Industrial Compliance

NEMA TS2

Power

Input

52-57VDC Redundant (Terminal block)

Power Consumption

10.4W Max (without PoE)

Power Power Budget

240W Max.

PoE Technology

Alternative A & B

Pins 1/2(+), 3/6(-), Pins 7/8(-), 4/5(+)

Power Power Output

Port 1 to 8 support PoE+ (15.4W/30W/60W)

IEEE 802.3af: up to 15.4W/port, 47-57VDC

IEEE 802.3at: up to 30W/port, 52-57VDC; 60W/port, 52-57VDC

Protection

Reverse Polarity Protection

Physical

Casing Material

Metal

IP Rating

IP30

Dimensions

71.4 x 140 x 170mm (W x D x H)

2.85" x 5.6" x 6.8"

Weight

1.7kg (3.74lbs)

Installation Type

DIN-rail mounting

Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

What's Included

Device

Ethernet Switch

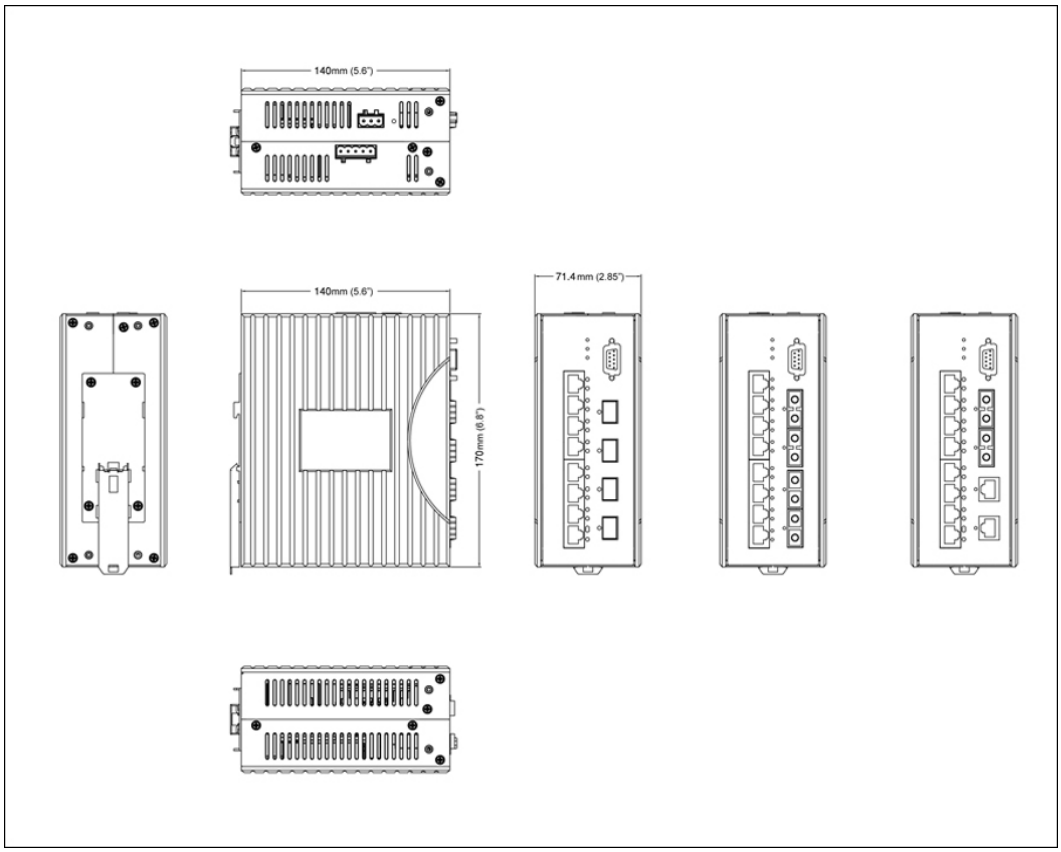
Cables

1 Console Cable

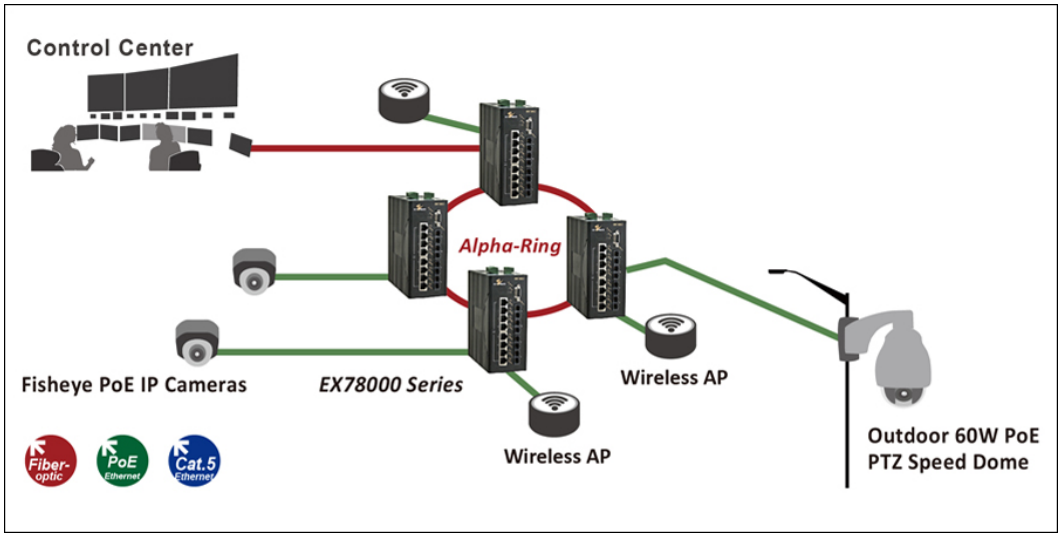
Documentation

Quick Install Guide

產品尺寸圖

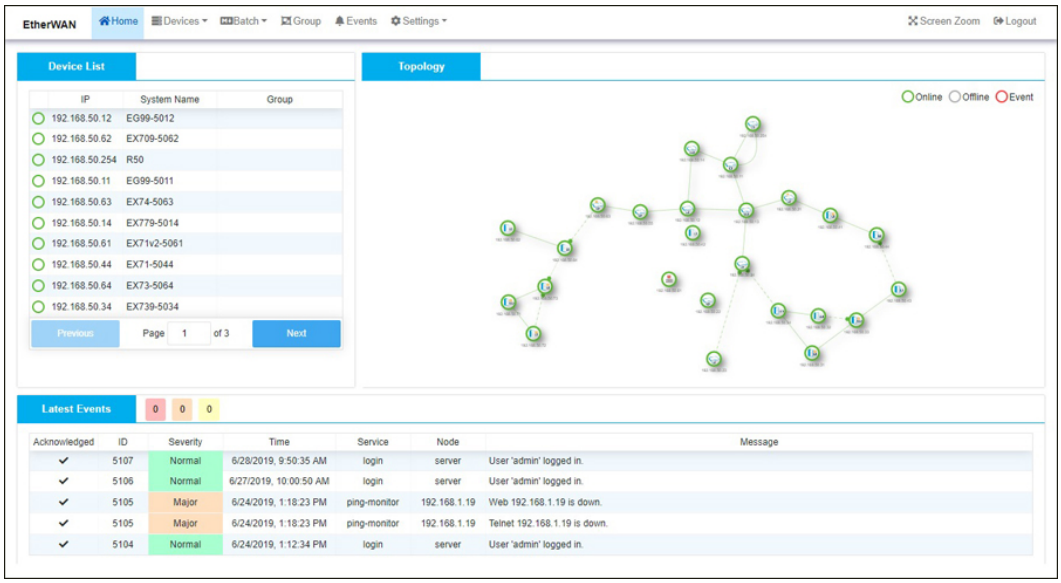

140mm (5.6")
140mm (5.6")
71.4mm (2.85")
170mm (6.6")

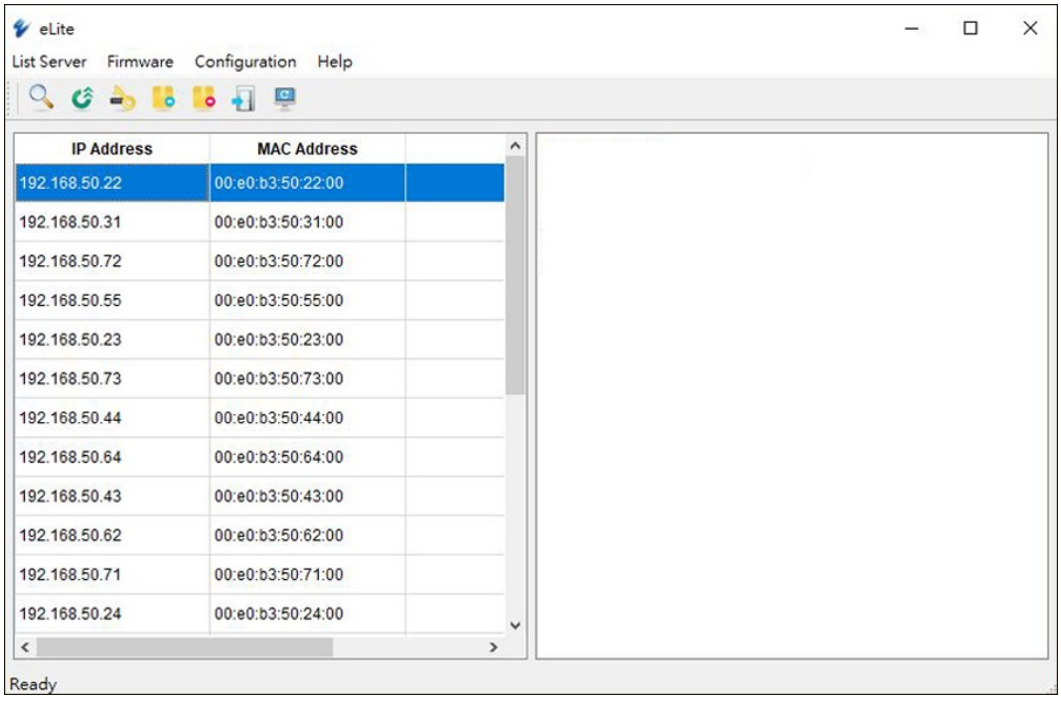
產品應用圖


Control Center
Alpha-Ring
Fisheye PoE IP Cameras
EX78000 Series
Wireless AP
Wireless AP
Outdoor 60W PoE
PTZ Speed Dome
Fiber-optic
PoE Ethernet
Cat.5 Ethernet

管理軟體

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





訂購型號

Model

EX78402-0YBT	4-port 10/100BASE-TX PoE + 2-port Gigabit
EX78802-0YBT	8-port 10/100BASE-TX PoE + 2-port Gigabit
EX78822-XZBT	8-port 10/100BASE-TX PoE + 2-port 100BASE-FX +2-port Gigabit
EX78822-VVBT	8-port 10/100BASE-TX PoE + 2-port 100BASE-SFP +2-port 100/1000BASE-SFP

* DIN-Rail mounting kit included.

100FX Fiber Options (X)

1	Multi Mode (SC) - 2Km
2	Multi Mode (ST) - 2Km
A	Single Mode (SC) - 20Km

* More 100FX Fiber options also available upon request.

Gigabit Port Options (Y)

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

* More Gigabit options also available upon request.

Gigabit Port Options (Z)

1	10/100/1000BASE-TX
3	1000BASE-SX (SC) - 550m
4	1000BASE-SX (SC) - 2Km
5	1000BASE-SX (ST) - 550m

A	1000BASE-LX (SC) - 10Km
R	1000BASE-BX (SC) WDM-TX: 1310nm/RX: 1550nm-20Km
S	1000BASE-BX (SC) WDM-TX: 1550nm/RX: 1310nm-20Km

* More Gigabit options also available upon request.

Accessories

Hardened Gigabit SFP Module	www.etherwan.com/products/sfp-fiber-transceiver
DIN-Rail Power Supplies	www.etherwan.com/products/din-rail-power-supply (*)
***Recommended Power Supply**	NDR-480-48 480W 48VDC DIN-Rail Power Supply
EB-232	Configuration Backup and Restoration Tool

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