EX75900 系列

強固級網管型 28 埠 Gigabit PoE 乙太網路交換器



產品介紹

EtherWAN EX75900 系列是一款強固型機架式網管型 PoE 工業乙太網路交換器，專為任務關鍵型工業網路與基礎設施應用所設計。全系列配備 24 埠 10/100/1000BASE-T(X) PoE 連接埠，**依不同機型提供單埠最高 60W 或 90W PoE 輸出選擇**，讓使用者可依受電設備的功率需求，選擇合適的 PoE 供電規格。

針對高功率 PoE 應用，**EX75964-0VTH 支援 IEEE 802.3bt Type 4，單埠最高可提供 90W PoE 輸出**，適合為高功率 PTZ 攝影機、高效能無線基地台、數位看板，以及其他高耗電邊緣設備供電。EX75900 系列的 PoE 總功率最高可達 720W，並依所選機型提供 4 埠 1G/2.5G/10G SFP+ 或 4 埠 Gigabit SFP 上行連接埠。

EX75900 系列專為嚴苛環境與全天候持續運作而設計，適用於城市基礎設施、智慧交通系統、公共安全、影像監控，以及其他需要穩定且高功率 PoE 網路連線的工業應用。

IEC 62443-4-2 認證 — 為關鍵工業與基礎設施應用打造更強大的資安韌性與營運可靠性。

產品亮點

高頻寬傳輸與彈性上行連接

24 埠 10/100/1000BASE-T(X) Gigabit 乙太網路連接埠
4 埠 1G SFP 或三速率 1G/2.5G/10G SFP+ 上行連接埠
支援全線速交換與全雙工傳輸

高功率 PoE 供電

支援 IEEE 802.3af/at/bt PoE 標準
單埠最高 90W PoE 輸出，PoE 總功率最高 720W
支援 PoE Watchdog 自動監測與排程管理

強固設計，適用於嚴苛工業環境

支援 -40°C 至 75°C（-40°F 至 167°F）寬溫運作
無風扇設計，提升長時間運作的穩定性與可靠性
具備優異的耐衝擊、耐熱衝擊與抗電氣雜訊能力

網路管理與資安防護

支援多使用者權限分級管理，強化管理安全性
支援 IEEE 802.1X、RADIUS 與 TACACS+ 身分驗證
搭配 eVue™ 與 eLite™，實現集中式網路監控與管理

精簡型 Layer 3 網路功能

支援靜態路由、RIP v1/v2 與 OSPF 動態路由協定
支援 VRRP 閘道備援，提升網路可用性
有效降低廣播流量，提升工業網路傳輸效率

技術支援與產品保固

提供免費專業技術支援
提供免費韌體升級與版本更新通知
提供有限終身保固

軟體特色

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
Modbus TCP
SFlow

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)
IPSG (IP Source guard)
DAI (Dynamic ARP Inspection)
DHCP Snooping

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

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)

Software Properties and Performance

Switching Fabric

EX75960: 56Gbps

EX75964: 128Gbps

Forwarding Rate

95.23Mpps

Max VLANs

256 (4096 VID)

Jumbo Frame Size

9KB

MAC Table Size

16K

Packet Buffer Memory

12M bits

硬體規格

Interface

Ethernet

24 x 10/100/1000BASE-T(X)

4 x 1G/2.5G/10G SFP+ or 4 x 1G 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

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: PoE Status (Orange)

Physical

Casing Material

Metal

IP Rating

IP30

Dimensions

442 x 270 x 44.2mm (W x D x H)
17.4" x 10.6" x 1.74"

Weight

5.1Kg (11.2lbs)

Installation Type

Rack 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

1,444,959 hours

Technology

Standards

IEEE 802.3 10BASE-T

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

IEEE 802.3ab 1000BASE-T

IEEE 802.3ae 10Gigabit Ethernet

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 802.3af/at/bt Power over Ethernet

IEEE 1588v2 PTP

Forward/Filtering Rate

14,880pps for 10Mbps

148,810pps for 100Mbps

1,488,100pps for 1000Mbps

14,881,000pps for 10Gbps

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

Regulatory

ISO

Manufactured in ISO-9001 facility

EMI

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

BSMI

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)

PoE Ports: line to earth 6kV Surge

EN 61000-4-6 (Induced RFI)

EN 61000-4-8 (Magnetic field)

Safety

UL 62368

Cybersecurity

IEC 62443-4-1

IEC 62443-4-2

Vibration

IEC 60068-2-6

Shock

IEC 60068-2-27

Free Fall

FED STD 101C Method 5007.1

Traffic

NEMA TS2

Railway

EN 50121-4

Power

Input

46-57VDC Redundant (Terminal block)**

** 46-57VDC for IEEE 802.3af type 1, ≤15.4W PD devices.

52-57VDC for IEEE 802.3at/bt type 2/3/4, 30W, 60W, 90W (54-57VDC) PD devices.

Power Consumption

26W Max (without PoE)

PoE Modes

802.3af/at Mode A: Pins 1/2(-), 3/6(+)

802.3bt (60W/90W): Mode A & B, Pins 1/2(-), 3/6(+), 4/5(+), 7/8(-)

PoE Power Output

Port: Up to 60W/port

Up to 90W/port (EX75964-0VTH)

Power Budget: 720W

Protection

Reverse Polarity Protection

Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

What's Included

Device

Ethernet Switch

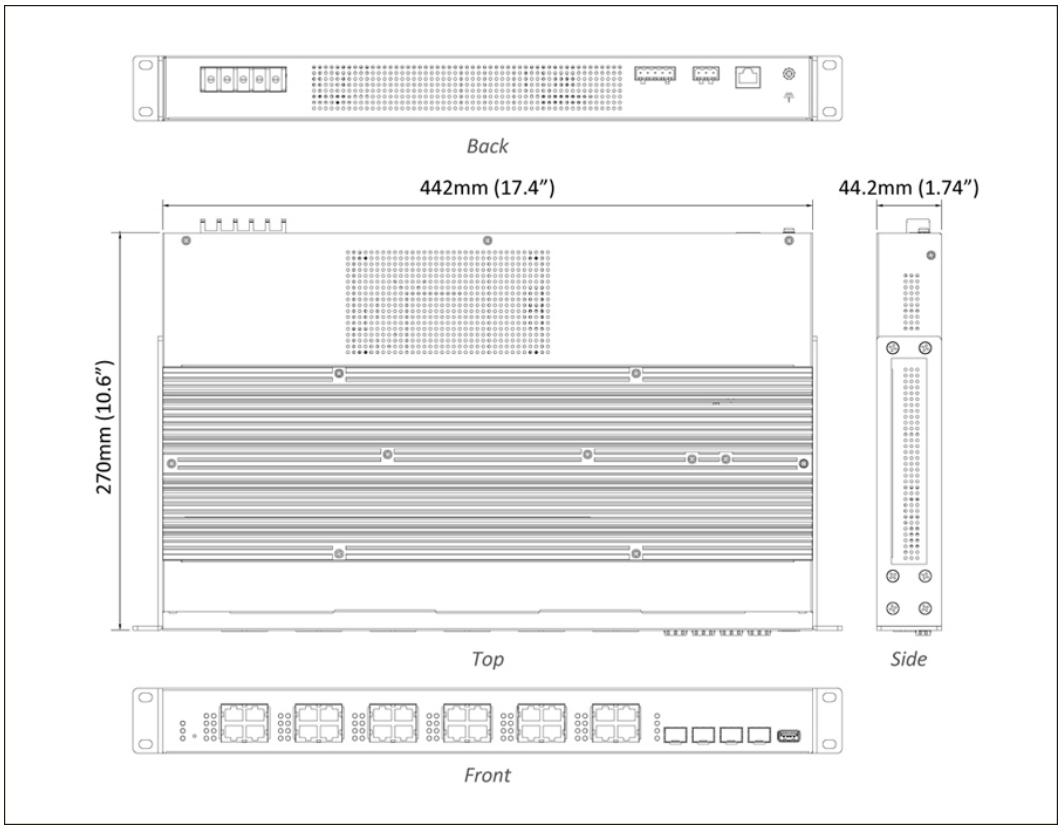
Cables

1 Console Cable

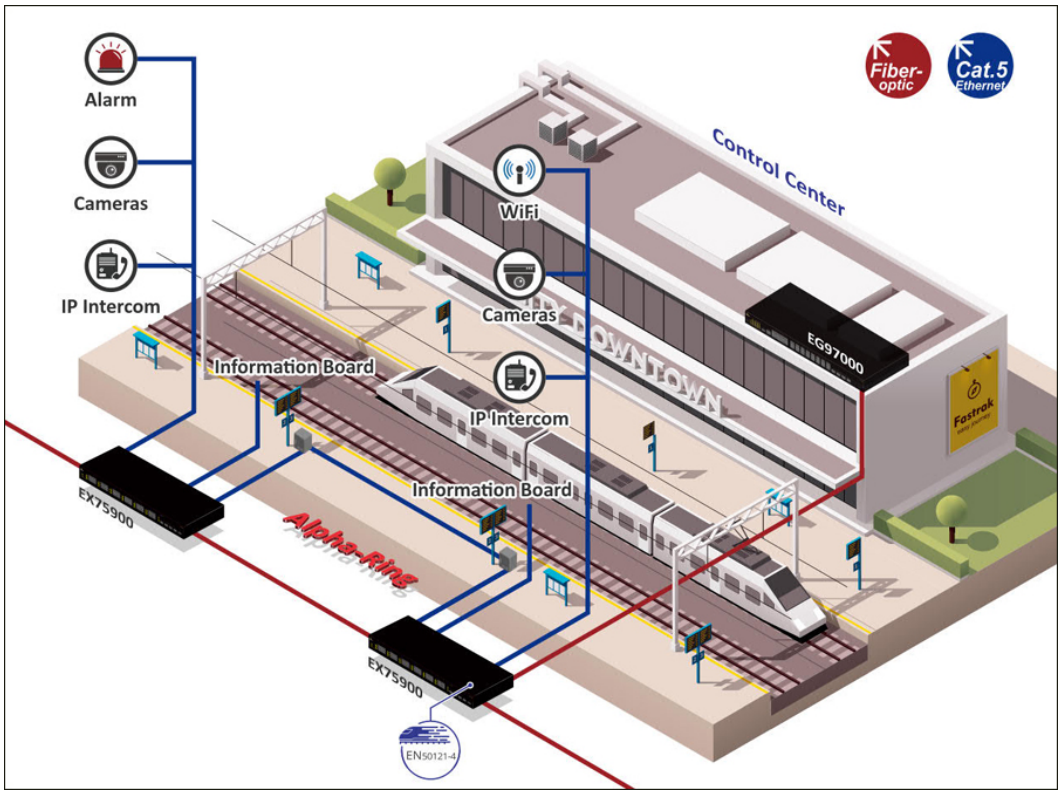
Installation

Mounting brackets, screws

產品尺寸圖

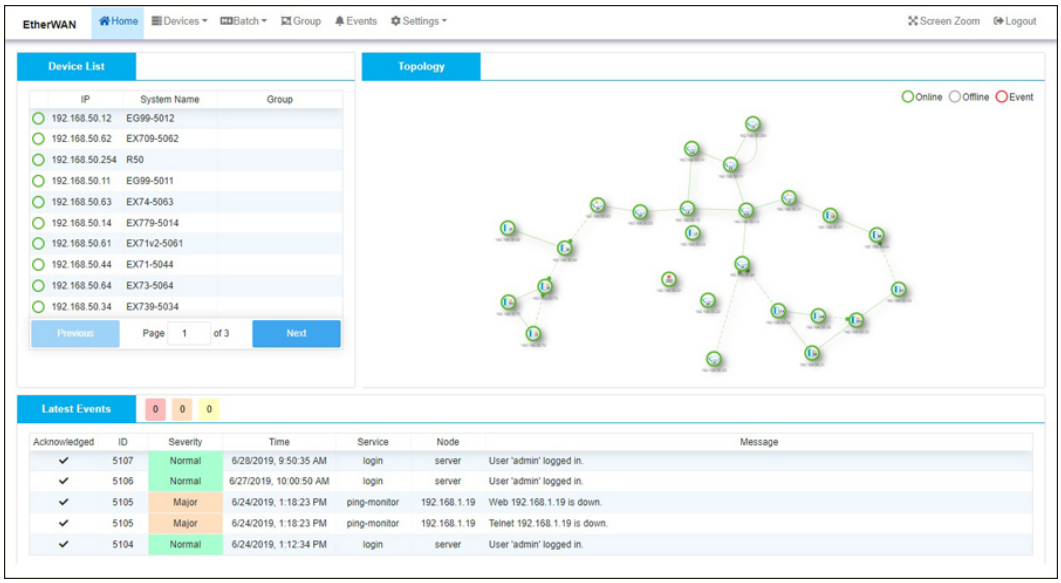


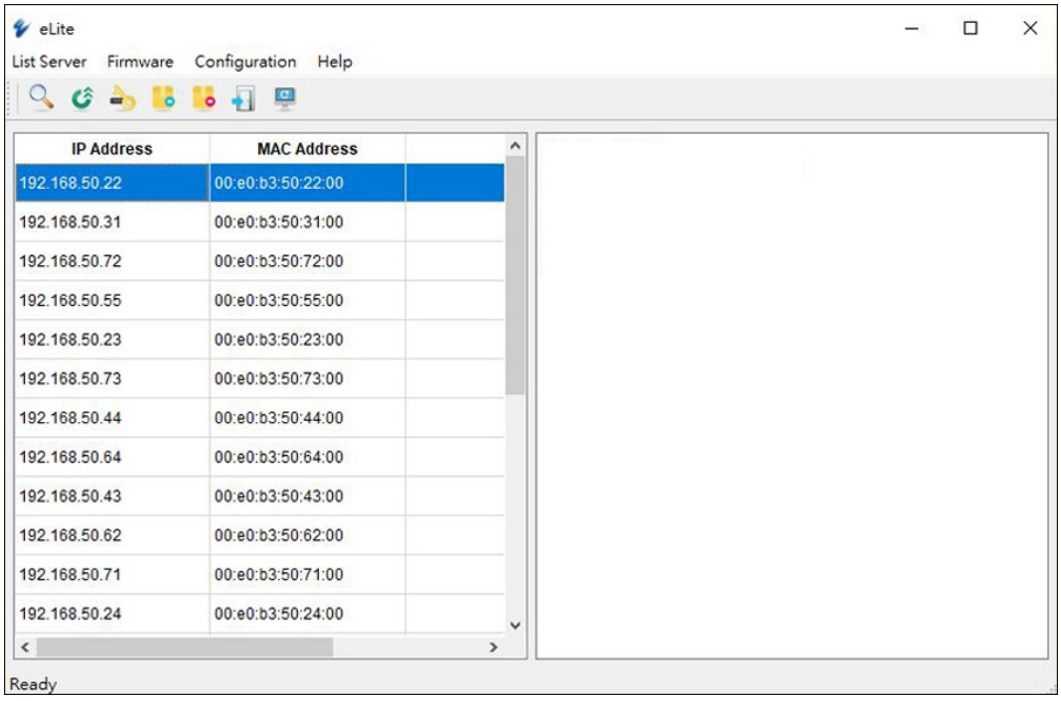
產品應用圖


Alarm
Cameras
IP Intercom
WiFi
Cameras
IP Intercom
Information Board
Information Board
Control Center
EG97000
Fastrak
EX75900
EX75900
Alpha-Ring
EN50121-4
Fiber-optic
Cat.5 Ethernet

軟體

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





訂購資訊

Model

			
	EX75964-0VTH New!	**EX75964-0VTU**	**EX75960-0VTU**
10/100/1000BASE-T(X)	24	24	24
1G/2.5G/10G SFP+	4	4	-
1000BASE SFP	-	-	4
PoE per port	**最高支援 90W**	最高支援 60W	最高支援 60W
	訂購諮詢	訂購諮詢	訂購諮詢

Accessories

Hardened 100BASE SFP Modules	www.etherwan.com/tw/products/sfp-fiber-transceiver
Hardened Gigabit SFP Modules	www.etherwan.com/tw/products/sfp-fiber-transceiver
DIN-Rail Power Supplies	www.etherwan.com/tw/products/din-rail-power-supply

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