

EG97244 系列

強固級網管型 8 埠 10/100/1000BASE-T + 16 埠 100/1000BASE SFP+ 4 埠 1/10G SFP + 第 3 層乙太網路交換器



產品介紹

[When should you use an Industrial Layer 3 switch?](#)

EtherWAN 的 EG97244 產品為高效能超高速第 3 層乙太網路交換器。EG97244 具有用於光纖的多個千兆位 (1G SFP) 連接埠以及 4 個 10 千兆 (10G SFP+) 的連接埠，主要定位是應用於骨幹型網路上。產品本身具有高度彈性、快速和穩定可靠的優勢，可廣泛應用於城市基礎設施、交通、安全和以及其它與網路串聯相關的網路管理工程領域中。

EtherWAN — "When Connectivity is Crucial."

產品亮點

+ 具高頻寬且多點網路連結的靈活性與傳輸能力 + 專案合規等級的網路產品

16 個 100/1000M 雙速率 SFP 連接埠，用於多組光纖連接
4 個 1/10G 雙速率 SFP+ 連接埠，用於連接到核心與集線核心層
8 個 10/100/1000BASE-T RJ45 連接埠，用於乙太網路的銅線連接

符合美國政府 TAA 專案標準
符合 NEMA TS2 等級
符合 UL 安全認證

+ 適用於不通風和惡劣環境的強固設計

-40 至 75°C (-40 至 167°F) 寬工作溫度範圍
無風扇設計
高耐溫衝擊和高雜訊抗噪

+ 穩定且安全的網路管理機制

連接埠端口控管 (Port control)
透過風暴 (Storm detection and control) 偵測和控管
可搭配 eVue™ 和 eLite 軟體來做網路監管

+ 完備的第 3 層網路功能等級

硬件等級的路由優化
故障隔離的再加強
運用第 3 層網路功能將整個網路連接在一起

+ 終身保固服務

提供免費技術支援
提供免費韌體升級服務
包含 ECN 和 EOL 通知

產品特色

+ 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

+ Security

MAC Address filtering

Enable/Disable port

Storm control

System logging

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

VLANs

IEEE 802.1Q Tag VLANs

GVRP

GMRP

Link Aggregation

Static Trunk

IEEE 802.3ad LACP

IGMP Snooping v1/v2/v3

+ Layer 3 Features IPv4

Unicast Routing

Static Routing (1K)

RIP v1/v2

OSPF v2

Multicast Routing

PIM-DM

PIM-SM

PIM-SSM

Routing Redundancy

VRRP

+ Layer 3 Features IPv6

IPv6 Unicast Routing

RIPng
OSPF v3

IPv6 Multicast Routing

PIM6-DM
PIM6-SM

IPv6 Routing Redundancy

VRRP v3

+ Software Properties and Performance

Switching Fabric

128Gbps

Forwarding Rate

95.23Mpps

Total VLAN Entries

256 (4096 VID)

Jumbo Frame Size

12KB

MAC Table Size

24K

Packet Buffer Memory

32M bits

L2 Routes

Up to 24,000 unicast and 1,000 multicast routes

L3 IPv4 Routes

Up to 8,000 unicast and 8,000 multicast routes

L3 IPv6 routes

Up to 2,000 unicast routes

產品規格

+ Interface

Ethernet

8 x 10/100/1000BASE-T

16 x 100/1000BASE SFP

4 x 1G/10G SFP+

Console

1 x RJ45

Config Backup

1 x USB (Type A Connector)

Alarm Contact

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

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

4Gb DDR3 SDRAM

Flash Storage

2GB

+ Power**Input**

VTR: ± 48 VDC Redundant (Terminal block)

VWR: 100-240VAC Redundant (Terminal block)

VCR: 100-240VAC Redundant (AC Inlet)

Power Consumption

75W Max

+ Physical**Casing Material**

Aluminum

Dimensions

442 x 325 x 44mm (W x D x H)

17.4" x 12.8" x 1.73"

Weight

5.6kg (12.3lbs)

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

1,143,890 hours

+ Regulatory

ISO

Manufactured in ISO-9001 facility

EMC

EN 55032

EMI

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

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 62368

Traffic

NEMA TS2

Rail

EN 50121-4

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

Power

1 AC Power Cord

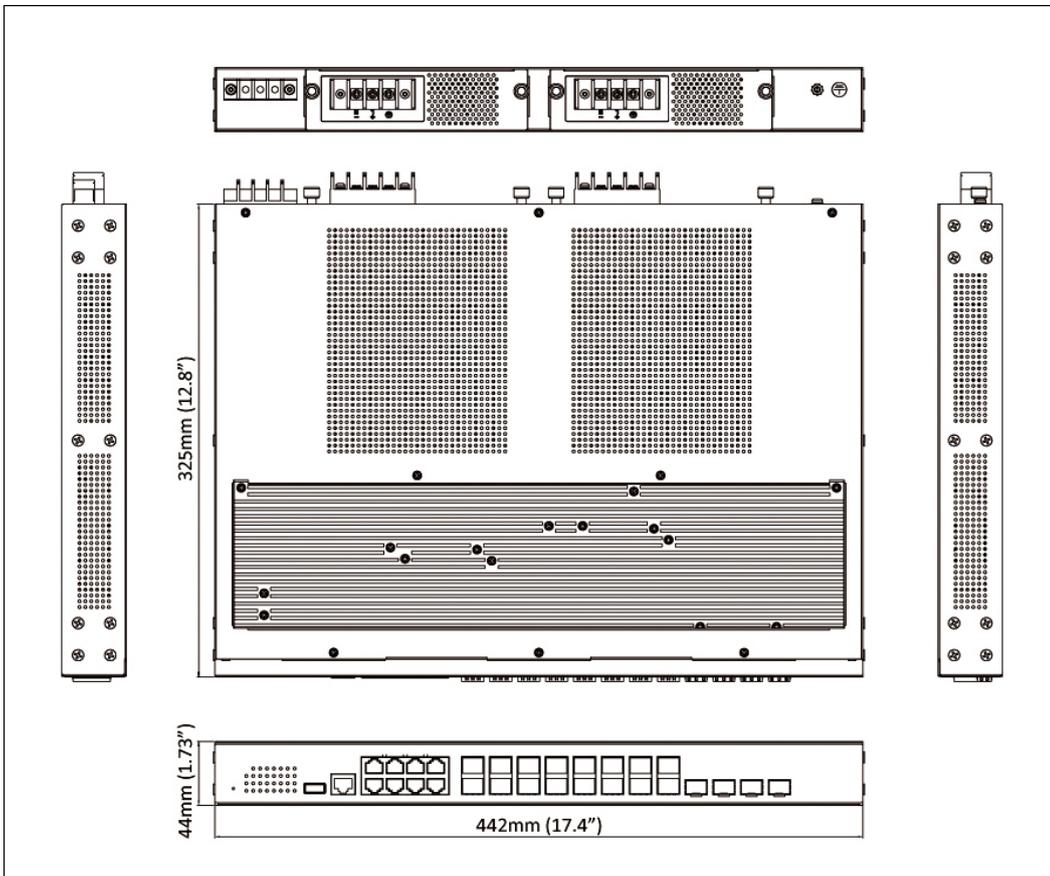
Installation

Mounting brackets, screws

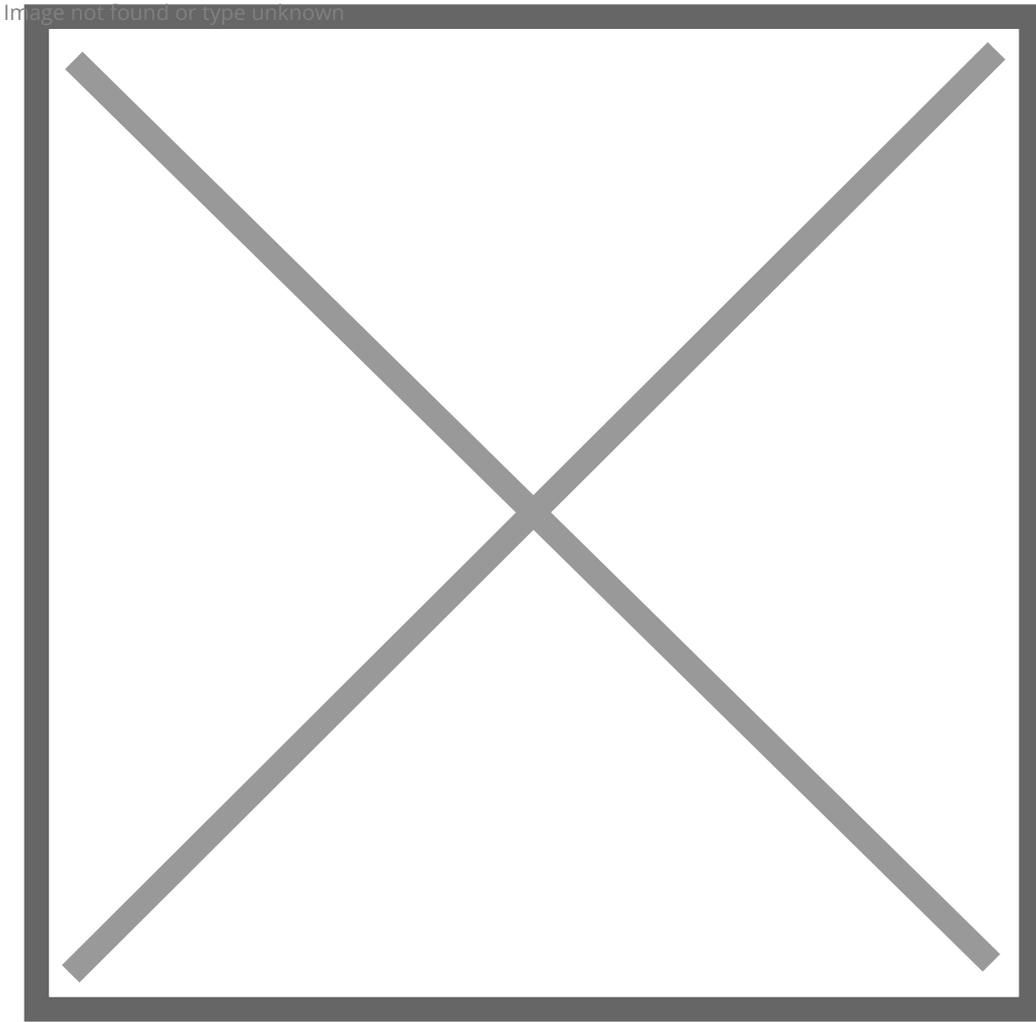
Documentation

Quick install guide

產品尺寸圖



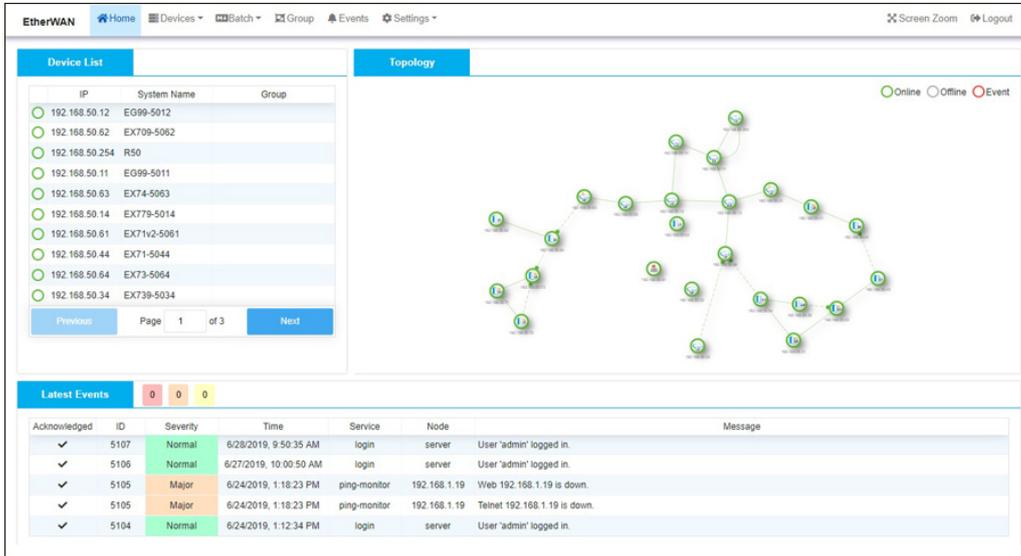
產品應用圖



管理軟體

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

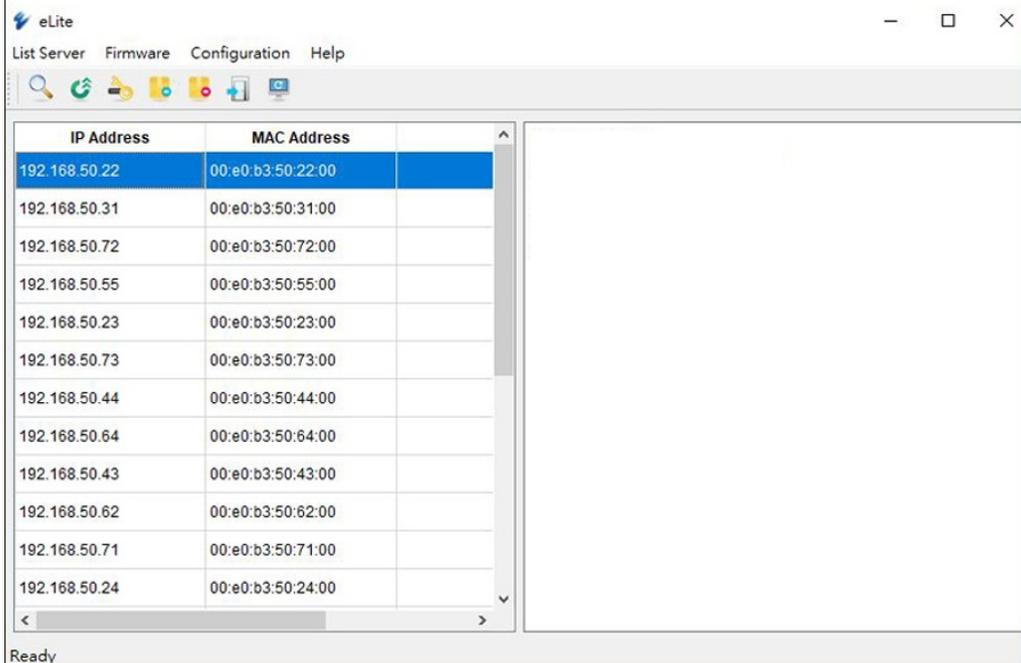
Network Discovery [eLite™ Network Discovery and IP Configuration Tool](#)



The screenshot shows the EtherWAN management interface. It features a navigation bar with 'Home', 'Devices', 'Batch', 'Group', 'Events', and 'Settings'. The main content is divided into three sections:

- Device List:** A table listing network devices with columns for IP, System Name, and Group. The table contains 12 entries, all with green status indicators.
- Topology:** A network diagram showing interconnected nodes and links. A legend indicates Online (green circle), Offline (grey circle), and Event (red circle).
- Latest Events:** A table showing recent system events with columns for Acknowledged, ID, Severity, Time, Service, Node, and Message.

| 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 | Teinet 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 network discovery tool interface. It has a menu bar with 'List Server', 'Firmware', 'Configuration', and 'Help'. The main area displays a table of discovered devices:

| 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 |

The status bar at the bottom indicates 'Ready'.

訂購型號

+ Model

| | |
|--------------------|--|
| EG97244-4VZ | 8-port 10/100/1000BASE-T + 16-port 100/1000BASE SFP + 4-port 1/10G SFP+ Hardened Managed Layer 3 Ethernet Switch |
|--------------------|--|

+ Power Input Interface (Z)

| | |
|-----------|---------------------------------------|
| TR | ±48VDC Redundant (Terminal Block) |
| WR | 100-240VAC Redundant (Terminal Block) |
| CR | 100-240VAC Redundant (AC Inlet) |

+ Accessories

| | |
|-------------------------------------|--|
| Hardened 100BASE SFP Modules | www.etherwan.com/products/sfp-fiber-transceiver |
| Hardened Gigabit SFP Modules | www.etherwan.com/products/sfp-fiber-transceiver |
| Power Supplies | www.etherwan.com/products/power-supplies/power-adapters |
| EX41-2750A240 | Power Module for EG97244 series, 100-240VAC PSU (75W), AC Inlet |

