

## 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

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

### + 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

### + 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

### + 專案合規等級的網路產品

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

### + 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

### + 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: ±48VDC 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](http://www.etherwan.com/support/warranty-policy)

## + What's Included

Device

Ethernet Switch

**Cables**

1 Console Cable

**Power**

1 AC Power Cord

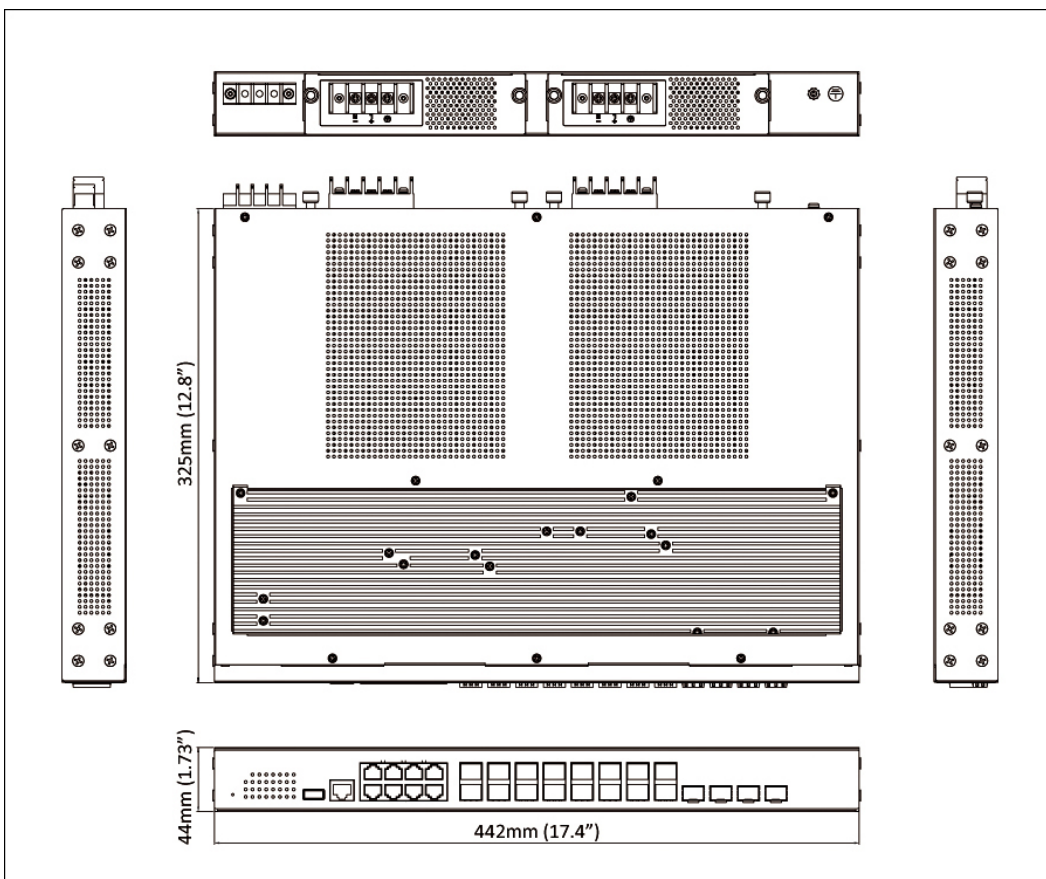
**Installation**

Mounting brackets, screws

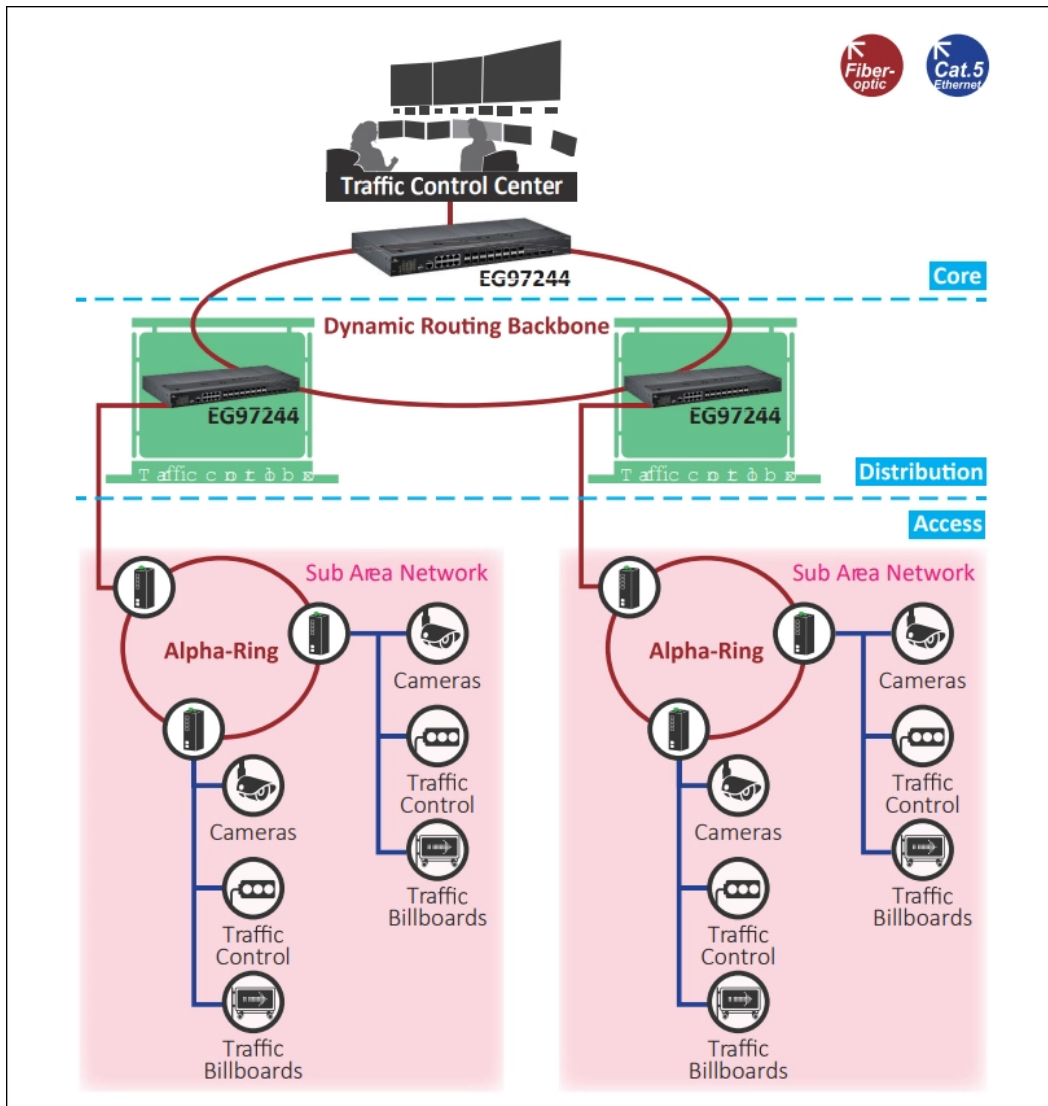
**Documentation**

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](#)

**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

EG97244-4VZ	8-port 10/100/1000BASE-T + 16-port 100/1000BASE SFP + 4-port 1/10G SFP+ Hardened Managed Layer 3 Ethernet Switch
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### + 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	<a href="http://www.etherwan.com/products/sfp-fiber-transceiver">www.etherwan.com/products/sfp-fiber-transceiver</a>
Hardened Gigabit SFP Modules	<a href="http://www.etherwan.com/products/sfp-fiber-transceiver">www.etherwan.com/products/sfp-fiber-transceiver</a>
Power Supplies	<a href="http://www.etherwan.com/products/power-supplies/power-adapters">www.etherwan.com/products/power-supplies/power-adapters</a>
EX41-2750A240	Power Module for EG97244 series, 100-240VAC PSU (75W), AC Inlet

