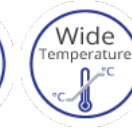


## EG97023 系列 測試

強固級網管型 12 埠 10G SFP+ + 8 埠 1000BASE 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 EG97023 是一款高效能強固型的第三層乙太網路交換器。主要除了能在惡劣環境下穩定運作外, 它還提供了極高頻寬的網路連結效能。EG97023 配備了 12 個 10G SFP+ 的連接埠, 每個連接埠能夠達到 10 千兆 (10G SFP+) 的連線速度, 另外還有 8 個千兆連接埠 (1G SFP) 可供網路連結, 其超高頻寬的傳輸能力, 可有效的達成連接到多個網路節點的網路場域中, 為您的網路規畫提供了最佳解決方案。產品本身具有高度的使用彈性、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工程領域中。

除了具備完整的第 3 層網路功能的優勢之外, EG97023 獨有的故障隔離設計、簡化的安全管理機制、網路流量適量隔離措施、較低的網路延遲性以及簡易的故障排除等特點外, EG97023 的硬體設計上, 更具備了獨特的無風扇散熱以及風流導向設計, 讓其強固的機身更可順利的在惡劣的環境下持久運行。除此之外, EG97023 也提供終身維修保固服務, 提供您後續使用上有優質的服務與保障。

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

多個網路連接埠端口以超高速的 10 千兆 (10G SFP+) 頻寬做滿載負荷運行  
12 個雙速 SFP+ 埠支援 1G/10G 光纖連接到核心與集線核心層  
8 個雙速 SFP 埠支援 1G 埠光纖用於支援到節點/邊緣運算的網路連接

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

### + 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

透過連接埠端口的檢查、身份驗證和訪問控制來控管安全  
透過風暴 (Storm Control) 偵測、IP ACL 控管和系統日誌記錄來監督  
可搭配 eVue™ 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

## 軟體功能

### + 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

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

256Gbps

#### Forwarding Rate

190.4Mpps

#### 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

## 硬體規格

### + Interface

#### Ethernet

8 x 100/1000 BASE-SFP

12 x 1G/10G SFP+

#### Console

1 x RJ45, 1 x USB

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

IEEE 802.3ab 1000BASE-T

IEEE 802.3ad link aggregation control

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

IEEE 802.3ae 10Gbit/s Ethernet over fiber for LAN

IEEE 802.3an 10GBASE-T Ethernet over copper twisted pair cable

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**

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 fullduplex flow control  
Auto MDI/MDIX

#### **System Memory**

4Gb DDR3 SDRAM

#### **Flash Storage**

2GB

### **+ Power**

#### **Input**

VWR: 100-240VAC Redundant (Terminal block)  
VCR: 100-240VAC Redundant (AC Inlet)

#### **Power Consumption**

75W Max

### **+ Physical**

#### **Casing Material**

Metal

#### **Dimensions**

442 x 325 x 44mm (W x D x H)  
17.4" x 12.8" x 1.73"

**Weight**

6.2kg (13.7lbs)

**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**

585224 Hours at 25°C

**+ 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 62368-1

**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**

2 AC Power Cord

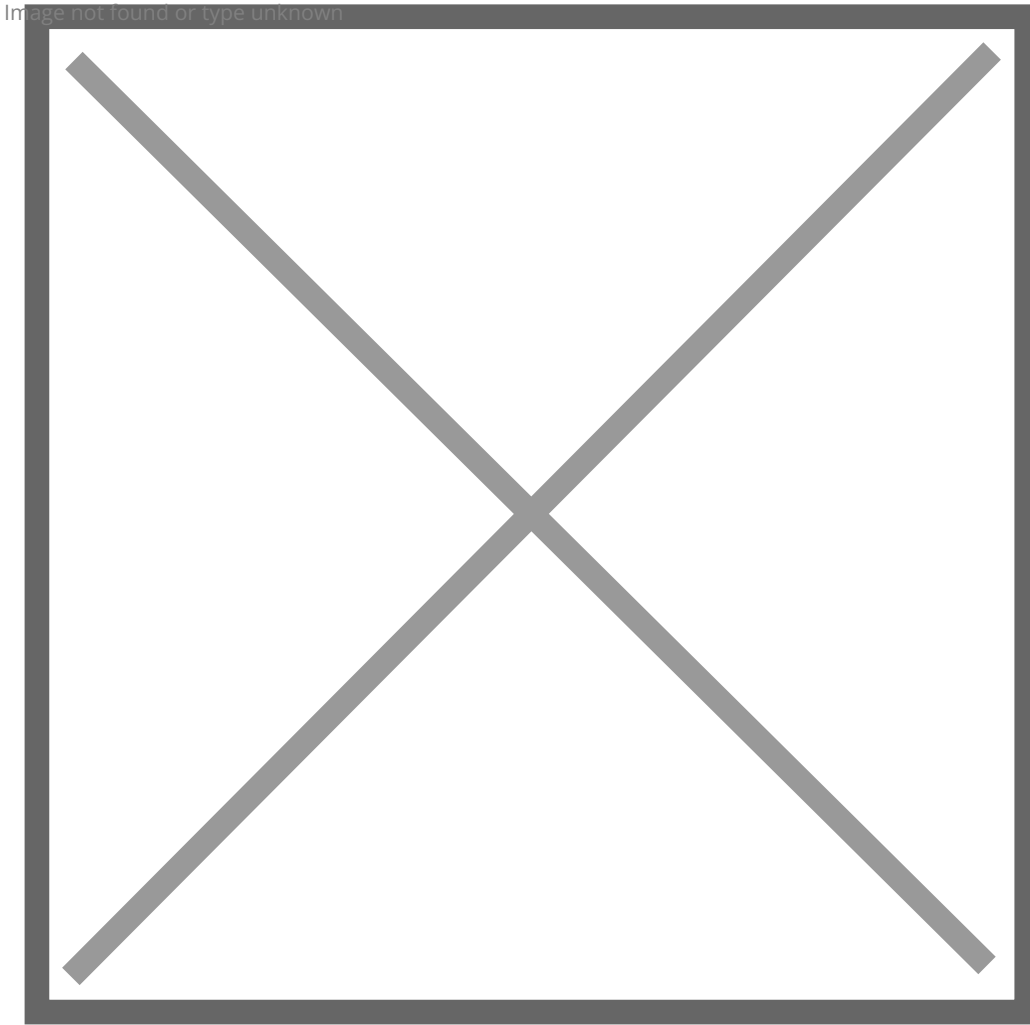
**Installation**

Mounting Brackets, Screws

**Documentation**

Quick Install Guide

## 產品尺寸圖



## 應用圖

EG97023 Series: 20-Port Hardened Managed 10-Gigabit Layer 3 Switch

Image not found or type unknown

## 軟體工具

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

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

EtherWAN eVue  
image not found or type unknown

EtherWAN eLite

## 訂購型號

### + Model

**EG97023-2VZ** 8-port 100/1000BASE SFP + 12-port 1/10G SFP+ Hardened Managed Layer 3 Ethernet Switch

### + Power Input Interface (Z)

**WR** 100-240VAC Redundant (Terminal Block)

**CR** 100-240VAC Redundant (AC Inlet)

### + Accessories

**Hardened SFP Modules** [www.etherwan.com/products/sfp-fiber-transceiver](http://www.etherwan.com/products/sfp-fiber-transceiver)

**Power Modules** Spare Power Module for EG97023 series, 100-240VAC PSU (85W), AC Inlet

