EX77964

Lite Layer 3 強固級網管型 24 埠 Gigabit + 4 埠 1G/10G SFP 乙太網路交換器

產品介紹

益網科技 EX77964 系列，為一款強固等級設計、Full-Gigabit 並結合 Layer 3 路由協定功能的乙太交換器。支援靜態路由、路由信息協議 (RIP) V1/V2 和虛擬路由備援協定(VRRP)，確保資訊傳輸的高安全性及最佳的成本效益。

EX77964 系列可依需求挑選 28 個 Gigabit 埠，或 24 個網路埠搭配 4 個 10G SFP+ 等多種組合，254mm 深度之特殊短機殼設計，適合安裝於小型機箱內。完整的管理功能和組合，支援 Port Security, IGMP Snooping, Port-based VLAN, GARP 協定, Link Aggregation 及 ACL, 網路瀏覽介面, Telnet, SSH, SNMP, RMON, TFTP, 和 RS-232 管理介面。強固等級設計，可於 -40 到 75°C之寬溫環境下穩定運作。

EtherWAN — "When Connectivity is Crucial."

產品亮點

適用於不通風和惡劣環境的強固等級

-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

簡配第 3 層網路功能

支援 Static routing、RIP v1/v2 和 OSFP
VRRP 備援機制
減少廣播性封包的流量

具高頻寬靈活性

最高可串接 24 個 10/100/1000BASE-T(X) RJ45 連接埠，用於乙太網路的銅線連接
最高可串接 8 個雙速率 100/1000BASE SFP 連接埠，用於多組光纖連接
4 個 1G/10G SFP+ 連接埠，用於連接到核心與集線核心層

保固服務

提供免費技術支援
提供免費韌體升級服務
有限終身保固

產品特色

Interface

CLI, Telnet and Web Browser

SNMP v1/v2c/v3

Management

Firmware upgrade

Configuration backup via TFTP

DHCP Server/Client

RMON (Remote Monitoring)

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+

SSH for CLI and Telnet security

SSL for web security

ACL (Access Control List)

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) and Alpha-Chain

VLANs
IEEE 802.1Q Tag VLANs (128 groups, 4096 VID)
GVRP
GMRP

Link Aggregation
Static Trunk (4 groups, support MAC base)
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

產品規格

Interface

Ethernet

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

8 x 100/1000BASE SFP

4 x 10G SFP+

Console

1 x RJ45 RS-232

Config Backup

1 x USB (Type A Connector)

Alarm Contact

1 x Relay output, current capacity 0.6A/30VDC

LED Indicators

Per Unit: Power

Per Port: Link/Activity (Green)

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

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 IEEE 802.3x Full-duplex flow control
Auto MDI/MDIX

Address Table Size
16K MAC Addresses

Power

Input
12-24VDC Redundant (Terminal block)

Power Consumption
31.08W

Physical

Casing Material
Metal

IP Rating
IP30

Dimensions
430 x 254 x 44.2mm (W x D x H)
16.9" x 10" x 1.74"

Weight
3.29Kg (7.25lbs)

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)

Regulatory

ISO
Manufactured in ISO-9001 facility

EMI
FCC Part 15B Class A
VCCI Class A
EN 61000-6-4
EN 61000-3-2
EN 61000-3-3

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 62368

Vibration
IEC 60068-2-6 Fc

Shock
IEC 60068-2-27 Ea

Free Fall

FED STD 101C Method 5007.1

Industrial Compliance

NEMA TS2

Warranty

Length

Limited Lifetime

Details

www.etherwan.com/support/warranty-policy

What's Included

Device

Ethernet Switch

Cables

1 Console Cable

Installation

Mounting brackets

Documentation

Quick Install Guide

產品尺寸圖

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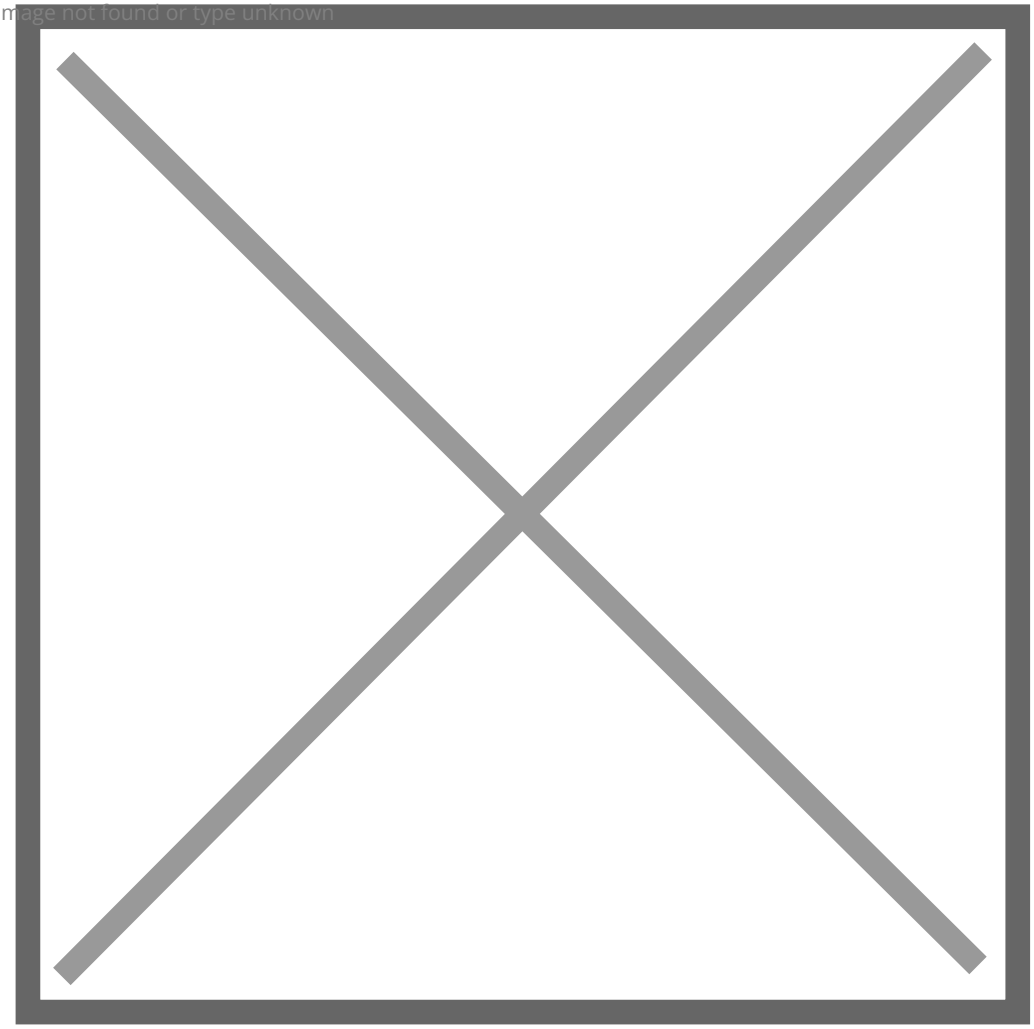

產品應用圖

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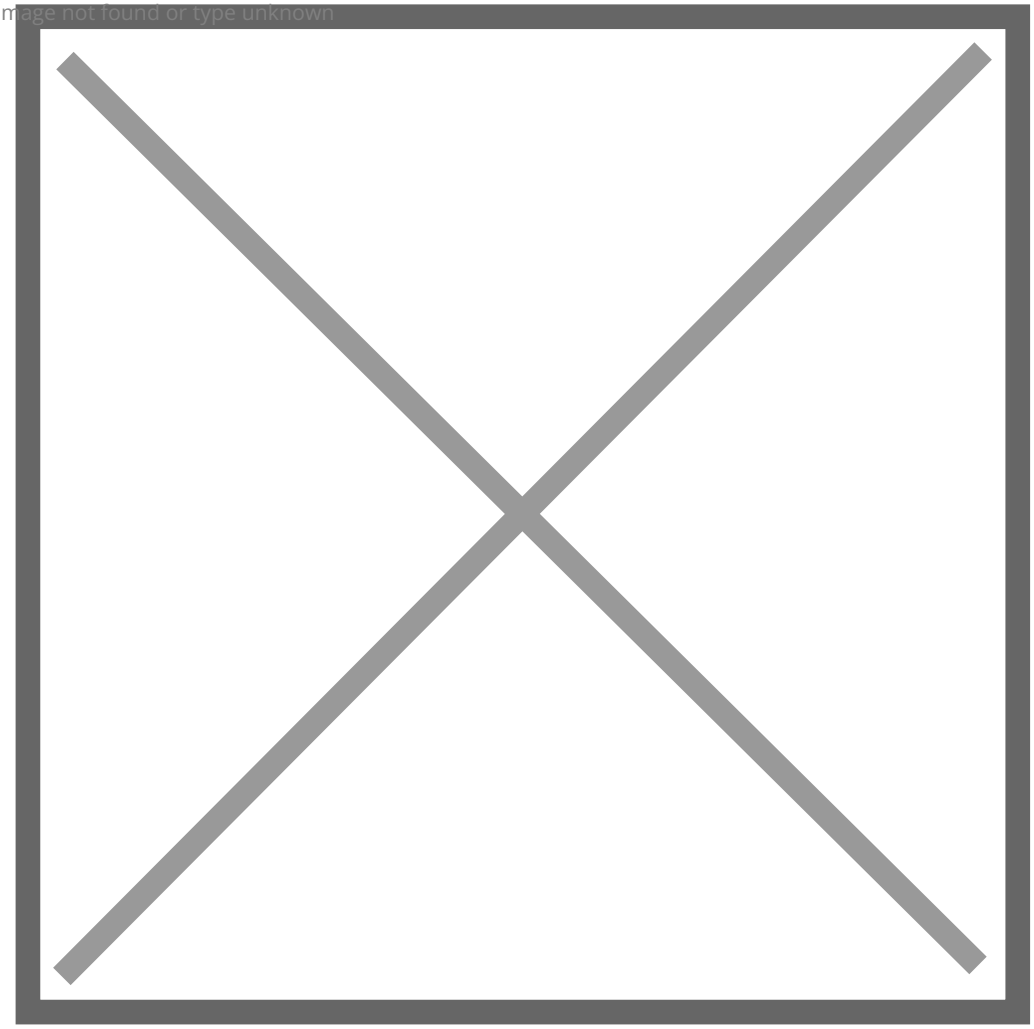
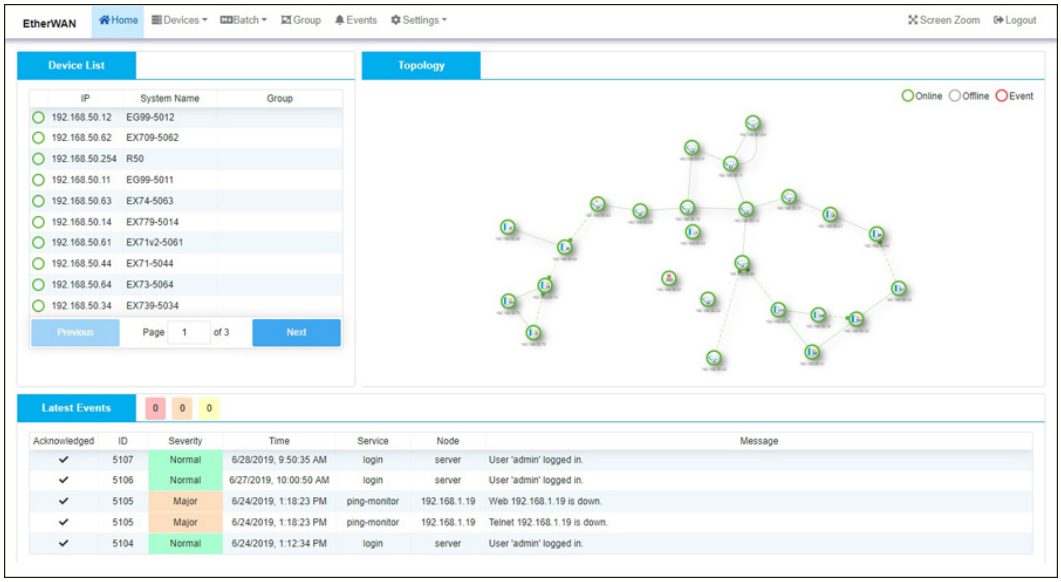
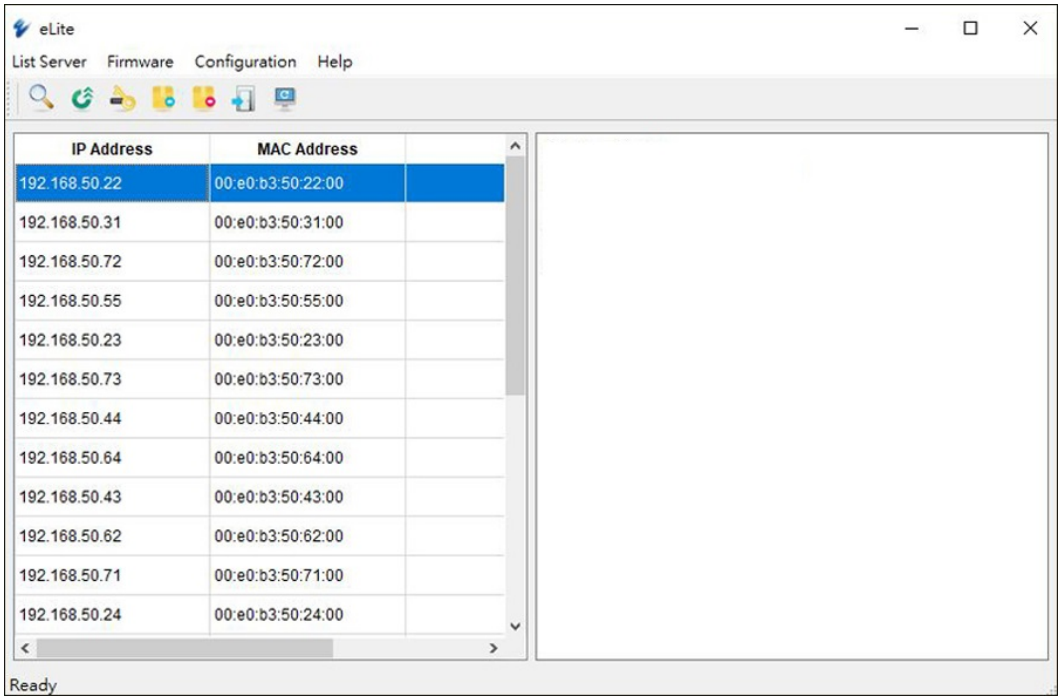


管理軟體

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





訂購型號

Model

EX77964-8VB	16-port 10/100/1000BASE-TX + 8-port 100/1000BASE SFP Combo + 4-port 1G/10G SFP+ (12-24VDC)

Accessories

Hardened 100BASE SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
Hardened Gigabit and 10-Gigabit SFP Modules	www.etherwan.com/products/sfp-fiber-transceiver
DIN-Rail Power Supplies	www.etherwan.com/products/din-rail-power-supply (*)
***Recommended Power Supply**	HDR-60-24 60W 24VDC DIN-Rail Power Supply
EB-232	Configuration Backup and Restoration Tool

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