

EX75900 系列

強固級網管型 28 埠 Gigabit PoE 乙太網路交換器



產品特色

➡ 高頻寬和多功能性

- 24 個 10/100/1000BASE-T(X) 高速連接埠
- 多達 4 個 1G/10G SFP+ 光纖上行鏈路埠
- 全雙工運行的全容量交換

➡ 適用於不通風和惡劣環境的強固等級

- -40 至 75°C (-40 至 167°F) 的寬工作溫度範圍
- 無風扇作業
- 衝擊、耐熱和電氣干擾抵抗力

➡ 第三層網管功能

- 靜態路由、RIP v1/v2 和 OSPF
- VRRP 虛擬路由備援協定
- 廣播流量減輕

➡ PoE 乙太網供電功能

- IEEE 802.3bt 支援 60W；720W 總輸出功率 720W
- PoE 看門狗監控設備的連接狀態與自訂排程

➡ 管理/安全功能

- 連接埠控制，SFTP 安全檔案傳輸協定
- 以 802.1x 連接埠基礎之網路登入控制以及透過 RADIUS 的遠端身份驗證
- 使用 eVue™ 和 eLite™ 設定和監控

➡ 支援

- 提供技術支援
- 免費韌體升級和通知
- 有限終身保固

產品介紹

益網科技 EX75900 系列是強固級網管型機架式的 PoE 乙太網路交換器平台。EX75900 系列配備 24 個 60W Gigabit PoE 埠，具備共 720W 的 PoE 功率預算、支援 IEEE 802.3bt 標準協議和 4 個 10-Gigabit SFP+ 埠，同時支援 IEEE 1588v2 標準的精確時間通訊協定，利用網路封包及時間戳記進行網路時間同步。為城市基礎設施、交通、安全和其他領域的重要網路連結、提供靈活、高速和可靠的通訊表現。

訂購資訊

產品型號

EX75964-0VTU	24 埠 10/100/1000BASE-T(X) PoE + 4 埠 1G/10G SFP+
EX75960-0VTU	24 埠 10/100/1000BASE-T(X) PoE + 4 埠 1000BASE SFP

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	
Modbus TCP	
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)	
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 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
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

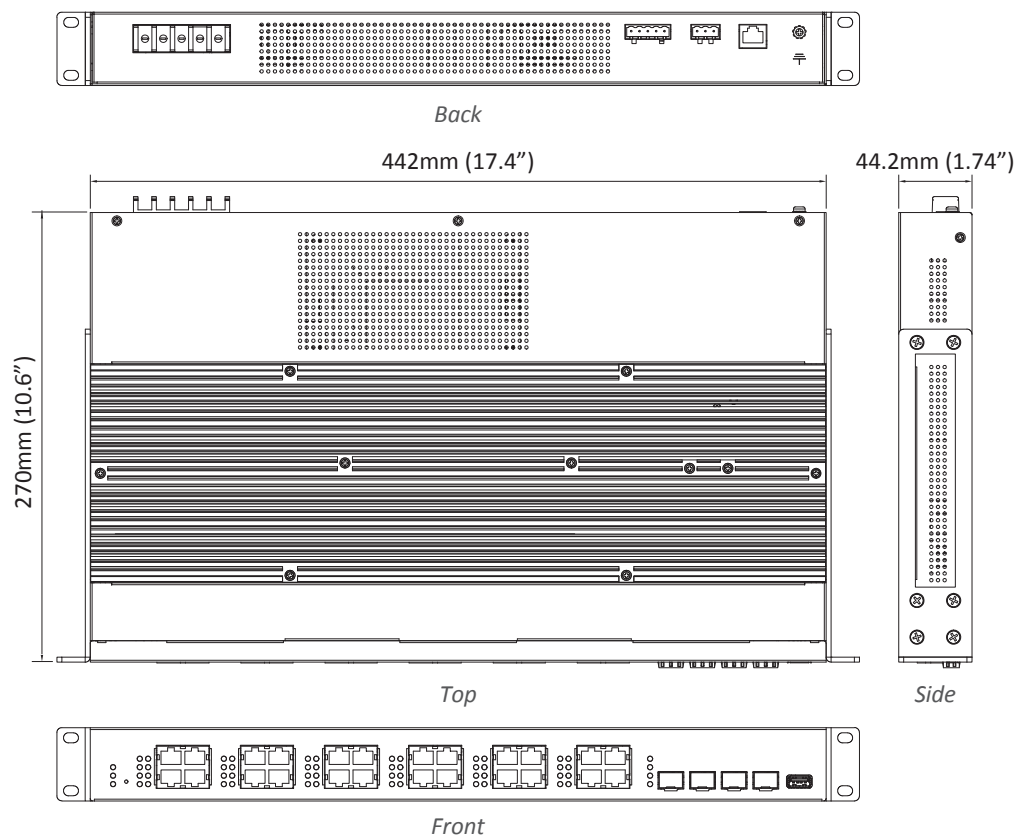
硬體規格

Interface +	
Ethernet	24 x 10/100/1000BASE-T(X) 4 x 1G/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)
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
Power +	
Input	46-57VDC Redundant (Terminal block)**
Power Consumption	25.12W@52VDC, 26.65W@57VDC (without PoE)
PoE Modes	802.3af/at Mode A: Pins 1/2(-), 3/6(+) 802.3bt (60W): Mode A & B, Pins 1/2(-), 3/6(+), 4/5(+), 7/8(-)
PoE Power Output	Port: Up to 60W/port Power Budget: 720W
Protection	Reverse Polarity Protection

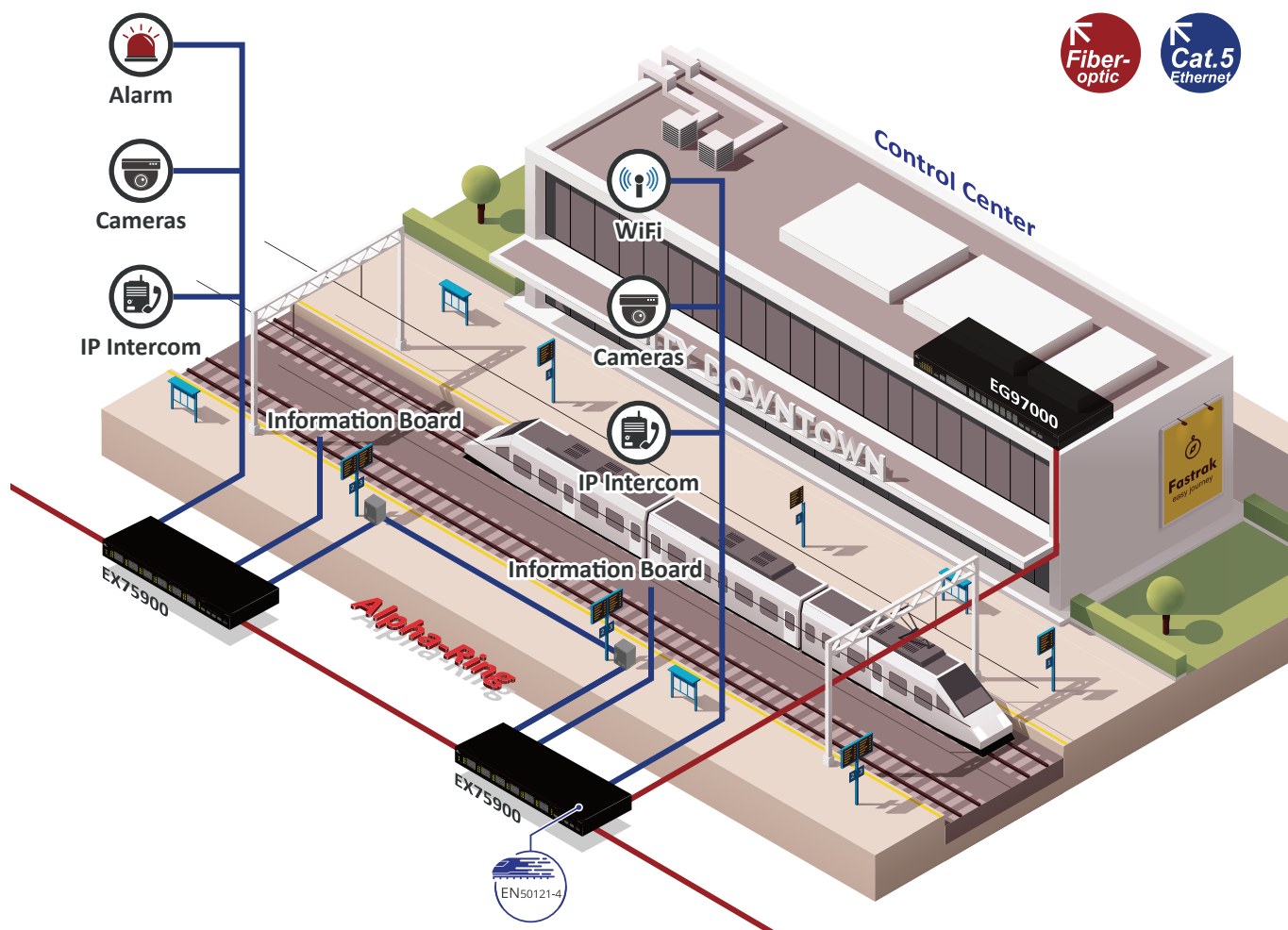
** 46-57VDC for IEEE 802.3af type 1, ≤15.4W PD devices.
52-57VDC for IEEE 802.3at/bt type 2/3, 30W, 60W PD devices.

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
Regulatory +	
ISO	Manufactured in ISO-9001 facility
EMI	FCC Part 15B Class A VCCI Class A EN 61000-6-4
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
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Free Fall	FED STD 101C Method 5007.1
Industrial	EN 50121-4
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
Documentation	Quick Install Guide

產品尺寸



應用案例



軟體工具

網路管理	eVue™ 網絡配置和監控工具
網路探索	eLite™ 網絡偵測和 IP 配置工具

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

OnlineOfflineEvent

Latest Events

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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 ServerFirmwareConfigurationHelp

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

配件選購

強固級 100BASE SFP 模組	+
www.etherwan.com/tw/products/sfp-fiber-transceiver	
強固級 Gigabit SFP 模組	+
www.etherwan.com/tw/products/sfp-fiber-transceiver	
DIN-Rail 導軌式電源供應器	+
www.etherwan.com/tw/products/din-rail-power-supply	