

EX61000A 系列

工業級網管型 8埠10/100BASE +2埠Gigabit 乙太網路交換器 (SFP選擇組合)



產品介紹

EX61000系列為網管型鋁軌式安裝設計機種，內建8個10/100BASE乙太網路連接埠及2個Gigabit埠，可搭配多種光纖介面(固定式光纖或SFP光纖模組)，適用各種自動化網路的解決方案。

EX61000系列為工業等級設計可在-10到60°C溫度環境下穩定運作，搭配益網獨家技術Alpha-Ring環狀網路備援機制，可在網路發生斷線時迅速啟動備援機制，於小於15毫秒內便可快速恢復連線通訊。

支援IPV4 and IPV6並具備完整管理功能，包含port security、IGMP snooping、VLANs、GARP協定、LACP；使用者可透過網頁瀏覽telnet、SNMP、RMON、TFTP和RS-232 console管理介面，使複雜的專案規劃事半功倍。

EtherWAN — "When Connectivity is Crucial."

產品亮點

多元彈性介面組合

- » 支援8個10/100base-TX/FX/BX/SFP加2埠Gigabit-SX/LX/BX/SFP

工業等級設計

- » 操作溫度(-10到60°C)
- » 無風扇和堅固的金屬外殼設計，可有效避免高溫及高濕度環境導致材質老化

支援Dual firmware image

- » Dual flash images提供獨立的主要和次要作業系統以支援備援系統架構

產品特色

Management

- » Interface
 - CLI, Telnet and Web Browser
 - SNMP v1/v2c/v3
 - » Firmware and configuration upgrade and backup via TFTP
 - » Supports DHCP Server/Client
 - » RMON (Remote Monitoring): group 1, 2, 3, 9
 - » Port mirroring: TX/RX and both
 - » NTP (Network Time Protocol) time synchronization
 - » IEEE 802.1ab LLDP (Link Layer Discovery Protocol)
 - » IPv4/IPv6
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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
 - » Multi-level user account/password against unauthorized configuration
 - » System log (Remote/Local)
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Quality of Service (QoS)

- » Priority Queues: 4 queues per port
 - » Traffic classification based on IEEE 802.1p CoS, DSCP, WRR (Weighted Round Robin) and strict mode
 - » Rate Limiting (Ingress/Egress)
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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 Protocol
 - IEEE 802.1D Spanning Tree Protocol (STP)
 - IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
 - IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
 - EtherWAN's Alpha-Ring network fault recovery (<15ms)
 - » VLANs
 - Port-based VLANs
 - IEEE 802.1Q Tag VLANs (128 groups, 4096 VID)
 - GVRP (GARP VLAN Registration Protocol)
 - GMRP (GARP Multicast Registration Protocol)
 - » Link Aggregation
 - Static Trunk (2 groups, support MAC base)
 - IEEE 802.3ad Link Aggregation Control Protocol
 - » IGMP Snooping
 - IGMP Snooping v1/v2/v3
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產品規格

技術

標準

- 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 Port-based Network Access Control

Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps
- 1,488,100pps for 1000Mbps

緩衝記憶體封包

- 12M bits

傳輸型式

- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE 802.3x full-duplex flow control
- Auto MDI/MDIX

MAC地址表

- 16K MAC addresses
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電源

輸入電壓

- Redundant power inputs: 12-48VDC (Terminal Block)

電力功耗

- 7.5W Max. 0.31A@24VDC

Protection

- Reverse polarity protection
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機構

機殼

- Aluminum Case
- IP30

尺寸

- 60 x 125 x 145mm (W x D x H)
(2.36" x 4.92" x 5.7")

重量

- 1.03Kg

安裝方式

- DIN-Rail
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介面

乙太網路埠

- 10/100BASE-TX: 4, 6 or 8 ports
- 100BASE-FX: 0 to 4 ports
- Gigabit: 0, 1 or 2 ports

Console Port

- Port: One DB9 RS-232 port

LED 指示燈號

- Per Unit: Power 1, Power 2, Alarm
- Per Port: Link/Activity, Speed

Alarm Contact

- One relay output with current 1A/250VAC
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環境

工作溫度

- -10 to 60°C (-14 to 140°F)
Tested @ -20 to 70°C (-4 to 158°F)

儲存溫度

- -40 to 85°C (-40 to 185°F)

工作濕度

- 5% to 95% (無凝結)
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通過認證

ISO

- Manufactured in an ISO 9001 facility

Safety

UL 61010

EMI

FCC Part 15B Class A

EN 61000-6-4

EN 55032

EN 61000-3-2

EN 61000-3-3

EMS

EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated RFI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

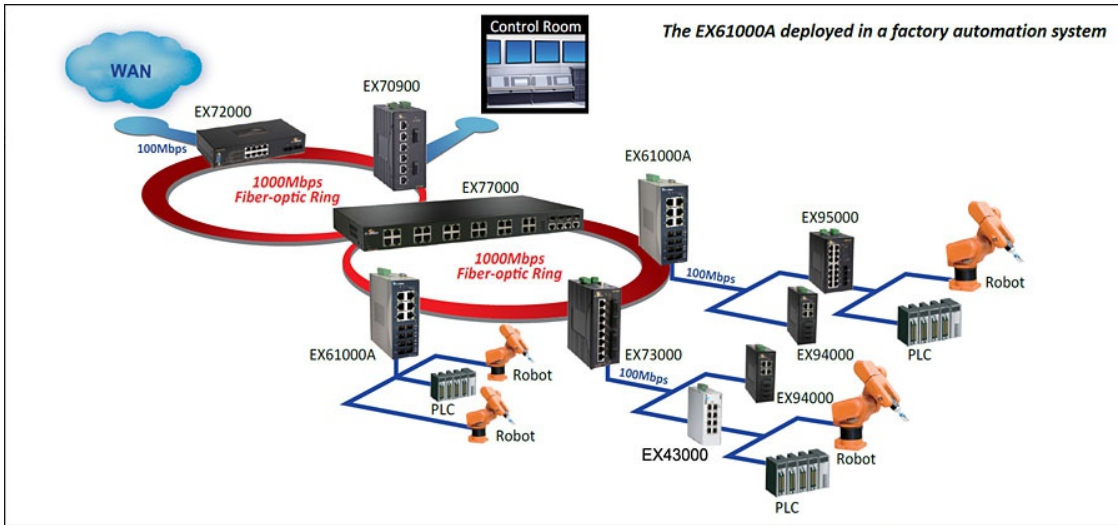
Environmental Test Compliances

FED STD 101C Method 5007.1 (Free fall w/package)

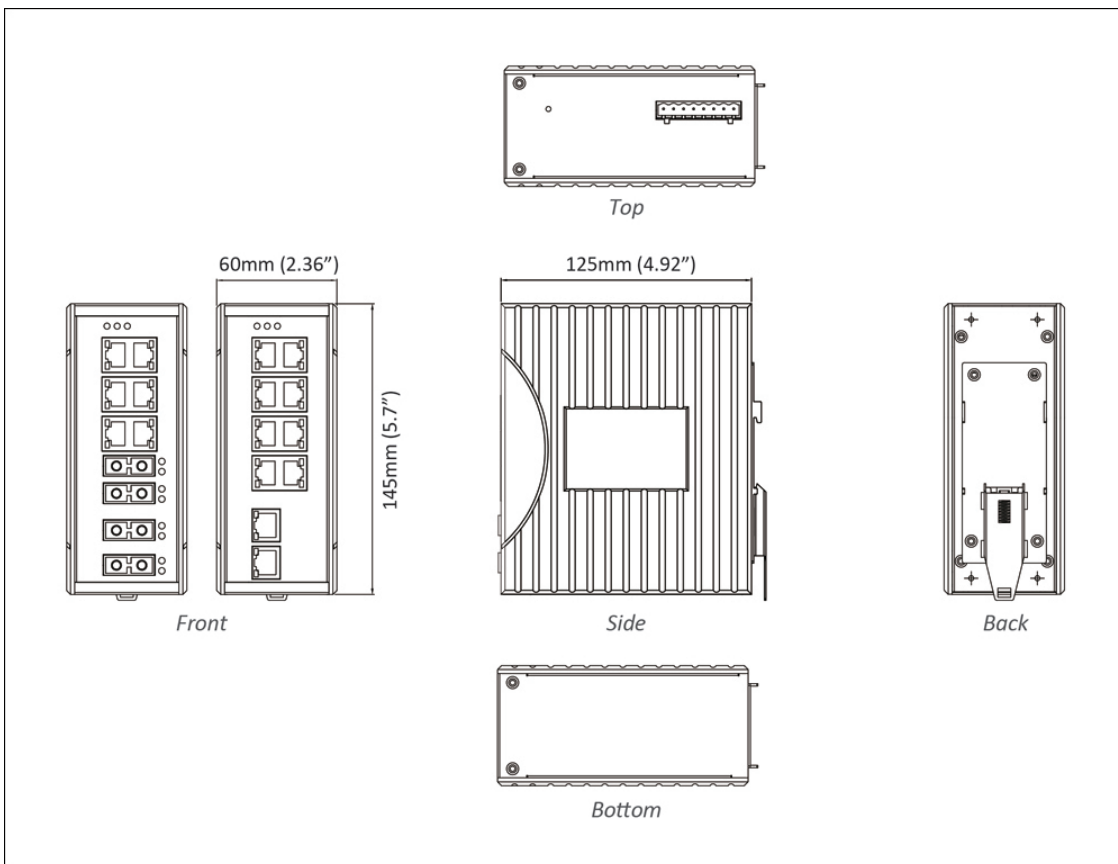
Industrial Compliance

EN 50121-4

產品應用圖



產品尺寸圖



訂購型號

型號

EX61802A-0YB	8-port 10/100BASE-TX +2-port Gigabit Industrial Managed Ethernet Switch
EX61620A-X0B	6-port 10/100BASE-TX +2-port 100BASE-FX Industrial Managed Ethernet Switch
EX61622A-XYB	6-port 10/100BASE-TX +2-port 100BASE-FX +2-port Gigabit Industrial Managed Ethernet Switch
EX61440A-X0B	4-port 10/100BASE-TX +4-port 100BASE-FX Industrial Managed Ethernet Switch

* DIN-Rail mounting kit included.

100FX Fiber Options (X)

1	Multi Mode (SC) - 2Km
2	Multi Mode (ST) - 2Km
A	Single Mode (SC) - 20Km
B	Single Mode (SC) - 40Km
V	100BASE SFP (DDM)

* More 100FX Fiber options also available upon request.

Gigabit Port Options (Y)

1	10/100/1000BASE-TX
3	1000BASE-SX (SC) - 550m
4	1000BASE-SX (SC) - 2Km
5	1000BASE-SX (ST) - 550m
A	1000BASE-LX (SC) - 10Km
B	1000BASE-LX (SC) - 20Km
R	1000BASE-BX (SC) WDM-TX: 1310nm/RX: 1550nm-20Km
S	1000BASE-BX (SC) WDM-TX: 1550nm/RX: 1310nm-20Km
V	100/1000BASE SFP (DDM)

*More Gigabit options also available upon request.

Optional Accessories

KP-AA96-480	Panel mounting kits
KR-BK71000	Rack mounting kits
HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
EDR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply
EX41-145046-X	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

