

## 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

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## 訂購型號

### 型號

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

\* DIN-Rail mounting kit included.

### 100FX Fiber Options (X)

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

\* More 100FX Fiber options also available upon request.

### Gigabit Port Options (Y)

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

\*More Gigabit options also available upon request.

## Optional Accessories

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

