

## EX63000 系列

工業級網管型 16埠10/100BASE +2埠Gigabit combo 乙太網路交換器



## 產品介紹

EX63000系列為網管型鋁軌式安裝機種，內建16個10/100BASE乙太網路連接埠及2個Gigabit combo埠，可搭配固定式光纖，工業等級設計可在-10到60°C溫度環境下穩定運作，具備完整管理功能，包含port security、IGMP snooping、VLANs、GARP 協定和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。

支援益網獨家技術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。同時支援 Redundant Pair 協定，可將不同的備援環狀網路串接在一起，可大幅延伸備援機制架構，同時最高可支援235個環狀網路並支援50毫秒的網路回覆時間。

EtherWAN — **When Connectivity is Crucial.**

## 產品亮點

### 多元彈性介面組合

- » 支援16個10/100base-TX加2埠Gigabit SX/LX/BX combo

### 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

### 遠端安全存取介面

- » 支援802.1x及RADIUS等優化網路安全機制

## 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
  - » 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)
  - » 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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## Performance

- » Switching Capability: 7.2Gbps
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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

- 8.06W 0.336A@24VDC

## Protection

- Reverse polarity protection
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## 機構

### 機殼

- 金屬材質
- IP30

### 尺寸

- 59 x 125 x 145mm (W x D x H)  
(2.32" x 4.92" x 5.71")

### 重量

- 0.84Kg

### 安裝方式

- DIN-Rail
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## 介面

### 乙太網路埠

- 10/100BASE-TX: 16 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
- Per Port: Link/Activity (Green: Copper; Orange: Fiber)

### Alarm Contact

- One relay output with current 0.6A@30VDC
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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

- -45 to 85°C (-49 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 (pending)

#### EMI

FCC Part 15B Class A

EN 61000-6-4

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)

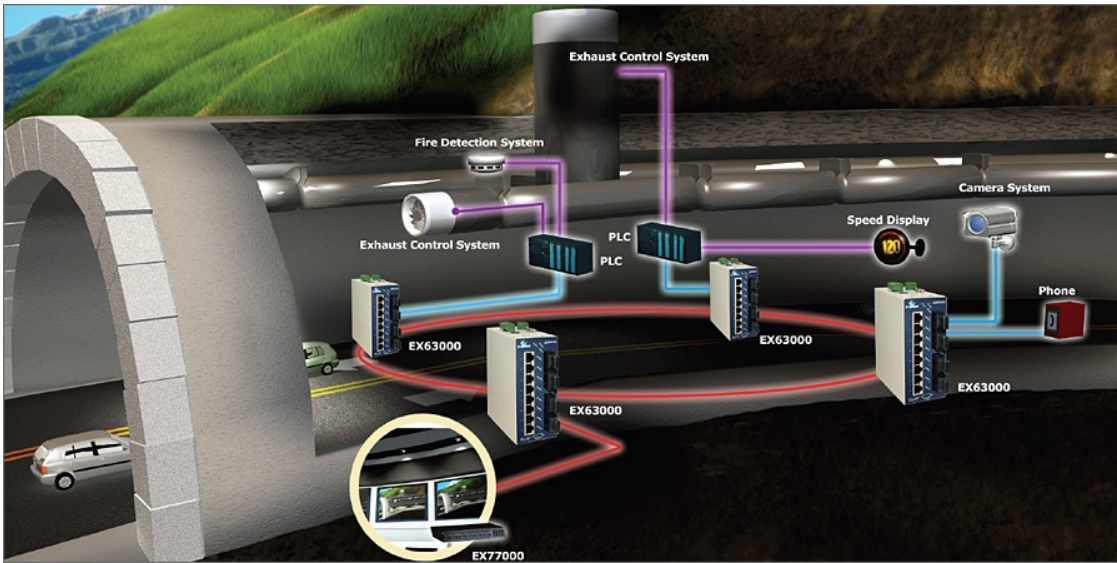
#### Environmental Test Compliances

IEC 60068-2-6 Fc (Vibration Resistance)

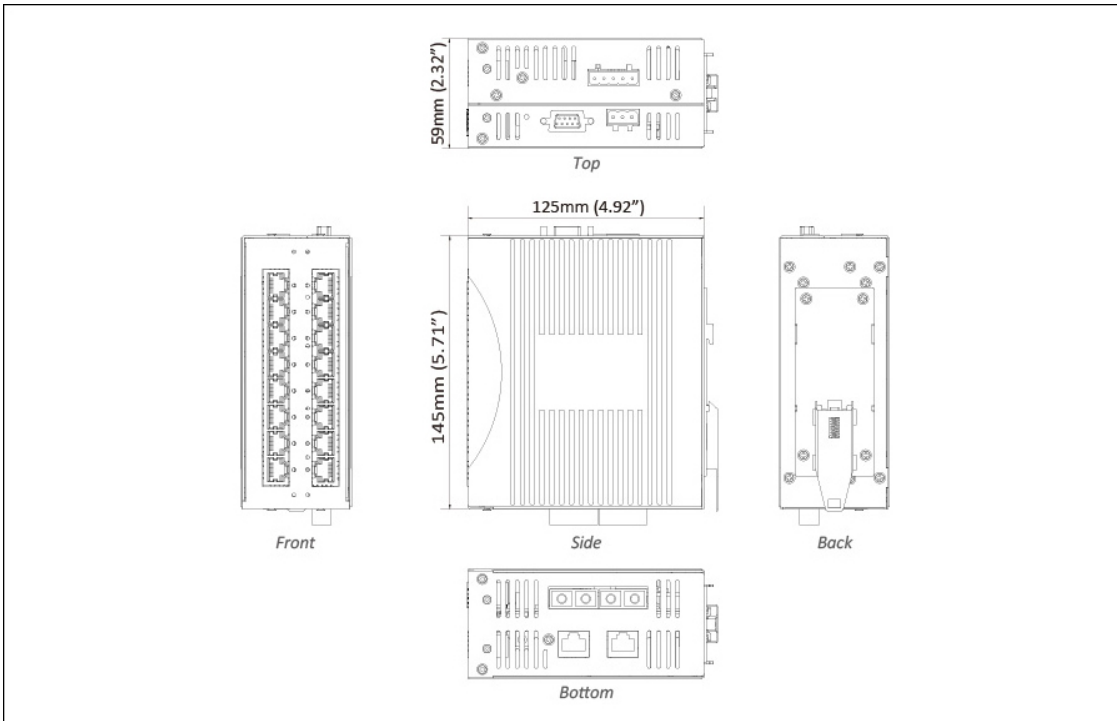
FED STD 101C Method 5007.1 (Free fall w/package)

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## 產品應用圖



## 產品尺寸圖





## 訂購型號

### 型號

EX63400-00B	16-port 10/100BASE-TX Industrial Managed Ethernet Switch
EX63402-0YB	16-port 10/100BASE-TX +2-port Gigabit Industrial Managed Ethernet Switch

\* DIN-Rail mounting kit included.

### Gigabit Port Options (Y)

1	10/100/1000BASE-TX (No Gigabit Fiber port supported)
3	Combo port: 10/100/1000BASE-TX with 1000BASE-SX (SC) - 550m
4	Combo port: 10/100/1000BASE-TX with 1000BASE-SX (SC) - 2Km
5	Combo port: 10/100/1000BASE-TX with 1000BASE-SX (ST) - 550m
A	Combo port: 10/100/1000BASE-TX with 1000BASE-LX (SC) - 10Km
B	Combo port: 10/100/1000BASE-TX with 1000BASE-LX (SC) - 20Km

### Optional Accessories

KP-AA96-480	Panel 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
EX41-136046-X	Power Supply 36W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

