

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

+ 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)

+ 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)

+ 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

+ Performance

Switching Capability: 7.2Gbps

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

+ 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

+ 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

+ 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

+ 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% (non-condensing)

+ 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

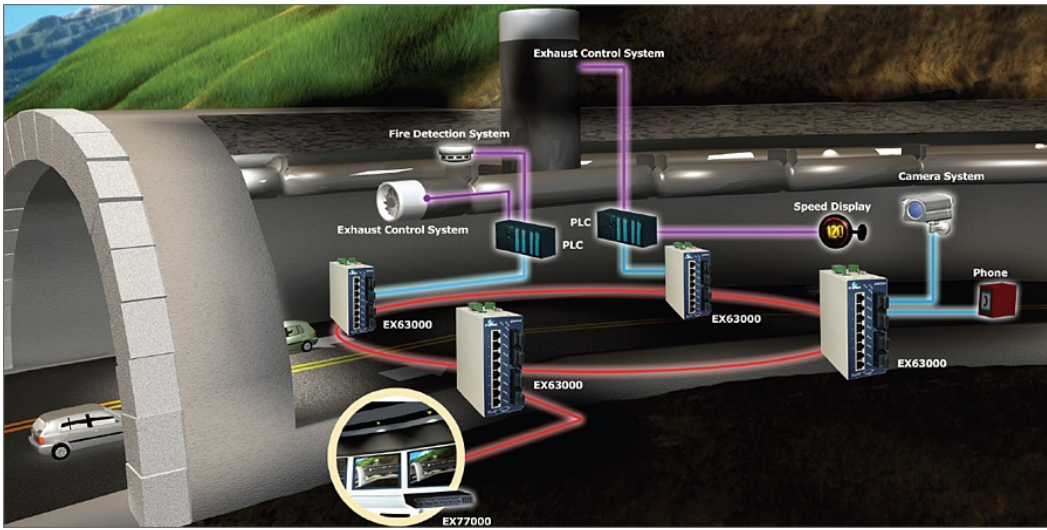
EMS

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)

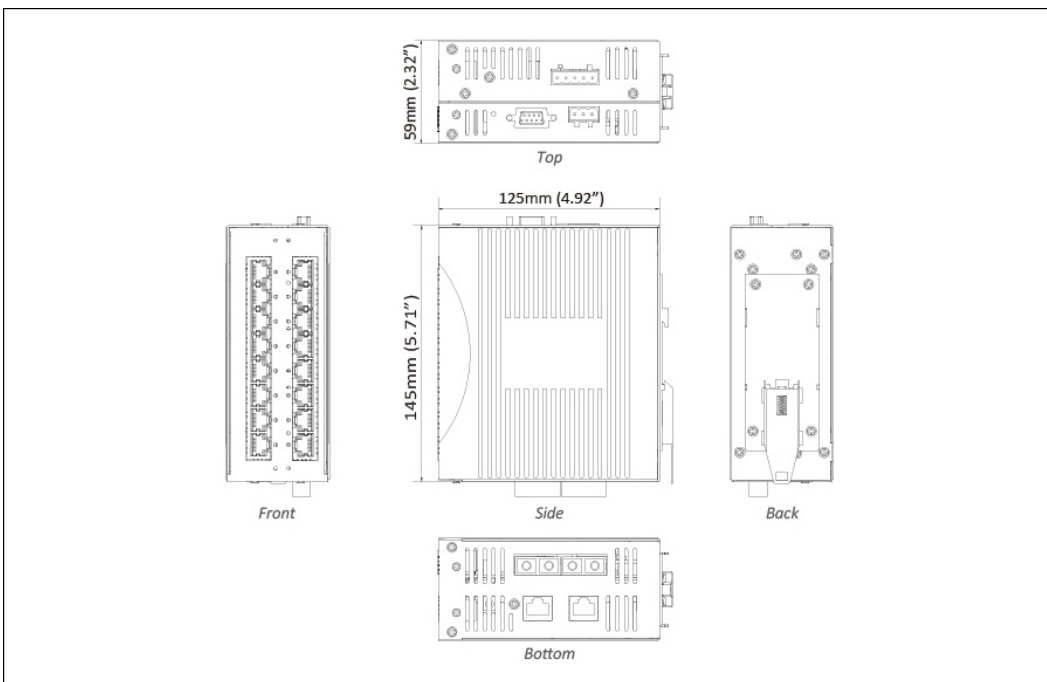
Environmental Test Compliances

IEC 60068-2-6 Fc (Vibration Resistance)
FED STD 101C Method 5007.1 (Free fall w/package)

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

