

EX70900 系列

IEC 61850-3/IEEE 1613 強固級網管型8埠Gigabit乙太網路交換器



產品介紹

本產品自 2020年5月26日起停產。請點選 [此處](#) 尋找替代產品。

EX70900系列為一款full Gigabit網管型乙太網路交換器，內建6個10/100/1000BASE-TX+2個SFP埠。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。

EX70900系列專為嚴峻戶外環境設計打造，鋁軌式安裝設計、工業等級設計且符合IEC 61850標準，同時可在高EMI環境及-40 到 75°C 寬溫環境下穩定運作，於嚴峻的專案規劃佈局中扮演致勝的關鍵角色。

EtherWAN — "When Connectivity is Crucial."

產品亮點

Full Gigabit連接埠

- » 提供8個Gigabit埠，支援多元介面組合：copper、SC、ST或 LC

智慧化管理功能

- » 完整的網路管理效能：QoS, VLAN

通過IEC 61850-3/IEEE 1613標準

- » 符合電廠認證標準，可應用於高EMI環境架構

符合Energy Efficient Ethernet (EEE)

- » 符合IEEE 802.3az標準

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
 - » SFP transceivers support Digital Diagnostics Monitoring (DDM)
 - » NTP (Network Time Protocol) time synchronization
 - » IEEE 802.1ab LLDP (Link Layer Discovery Protocol)
-

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: 16Gbps
 - » Packet Buffer Size: 1.5M bits
 - » MAC Address Table: 4K
-

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 802.3az EEE
- 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

- 1.5M bits

傳輸型式

- Store-and-Forward
- Half-duplex back-pressure and IEEE 802.3x full-duplex flow control

巨大封包

- 9720 bytes

MAC地址表

- 4096 MAC addresses
-

電源

輸入電壓

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

12VDC (DC Jack)

電力功耗

- 10.2W Max., 0.85A@12VDC

Protection

- Reverse polarity protection
-

機構

機殼

- Aluminum Case
- IP30

尺寸

- 66 x 125 x 145mm (W x D x H)
(2.64" x 4.92" x 5.7")

重量

- 1.1Kg (2.42lbs.)

安裝方式

- DIN-Rail (Top hat type35mm) or Wall mounting
-

介面

乙太網路埠

- 10/100/1000BASE-TX: 8, 7, or 6 ports
- 1000BASE-SX/LX/SFP: 0, 1, or 2 ports

Console Port

- Port: One DB9 RS-232 port

LED 指示燈號

- Per Unit: Power Status (Power 1, Power 2, Power 3), Alarm
- Per Port: Link/Activity

Alarm Contact

- One relay output with current 1A@24VDC
-

環境

工作溫度

- -40 to 75°C (14 to 167°F)

Tested @ -40 to 85°C (-40 to 185°F)

儲存溫度

- -40 to 85°C (-40 to 185°F)

工作濕度

- 5% to 95% (無凝結)
-

通過認證

ISO

- Manufactured in an ISO 9001 facility

Safety

UL 508

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 Compliance

IEC 60068-2-6 Fc (Vibration Resistance)

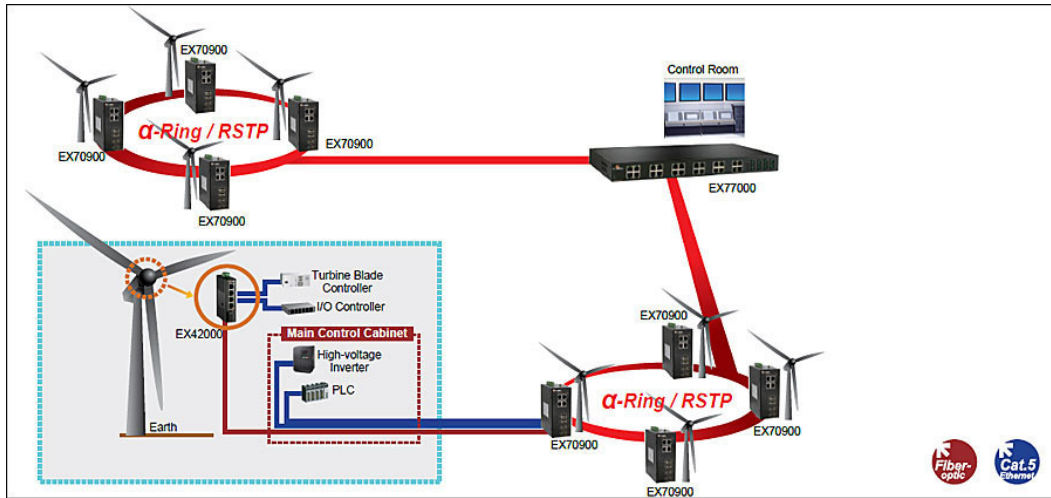
FED STD 101C Method 5007.1 (Free fall w/package)

Industrial Compliance

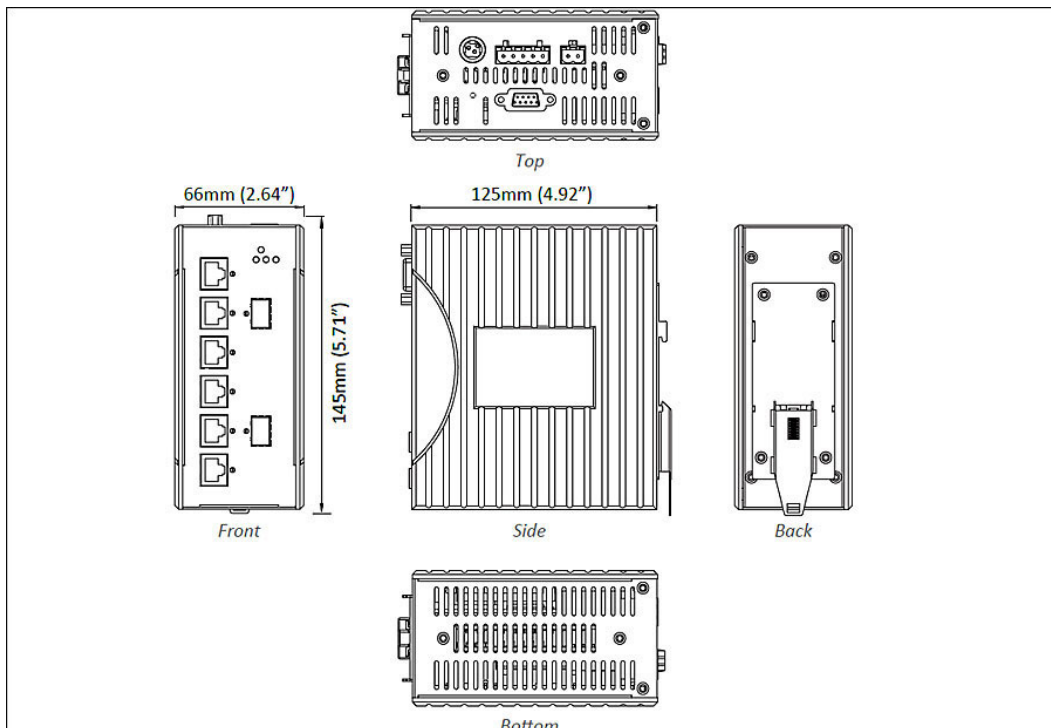
IEC 61850-3/IEEE 1613

EN 50121-4

產品應用圖



產品尺寸圖



訂購型號

型號

EX70980-00B	8-Port 10/100/1000BASE-TX Managed Hardened Ethernet Switch
EX70971-0VB	7-Port 10/100/1000BASE-TX +1-Port Gigabit SFP Hardened Managed Ethernet Switch
EX70962-0VB	6-Port 10/100/1000BASE-TX +2-Port Gigabit SFP Hardened Managed Ethernet Switch
EX70962-0XB	6-Port 10/100/1000BASE-TX +2-Port Gigabit Fiber Hardened Managed Ethernet Switch

* DIN-Rail mounting kit included.

Gigabit Port Options (X)

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

* More Gigabit options are also available upon request.

Optional Accessories

HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
EX41-145046-X	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA
EX41-145044-X	Power Supply 45W 12VDC with Latch (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA



© EtherWAN Systems, Inc. All rights reserved. 20240205

EtherWAN is constantly developing and improving products. Specifications are subject to change without notice and without incurring any obligation.