EL1142 系列

IEC 61850/IEEE 1613 強固級 2埠10/100BASE-TX +2埠100BASE-FX 光電轉換器



產品介紹

本產品自2026年3月27日起停產。 請點選 此處 尋找替代產品。

EL1142系列具備2組獨立10/100BASE-T網路埠和2個100BASE-SX-LX光纖埠，有效整合不同介面傳輸，支援2個獨立光電轉換器路徑，在空間有限的應用環境中更具安裝彈性。

EL1142 符合IEC 61850-3/IEEE 1613相容認證，抗電磁干擾設計，適用於變電站、電力整合等應用市場，支援Link-Fault-Pass-Through (LFPT)自動斷開故障連結，避免封包持續傳送，快速偵測到網路連線的錯誤。

EtherWAN — "When Connectivity is Crucial."

產品亮點

高密度埠距

在精巧機體中提供兩個獨立的光電轉換器路徑

符合EN 50121-4認證

專為軌道環境應用設計及測試

符合IEC 61850-3/IEEE 1613認證

符合變電站自動化所需之應用標準

支援Link-Fault-Pass-Through (LFPT)

針對光電轉換器連線狀態提供持續的監控

當連線的其中一端中斷，另一端仍然繼續傳輸封包，然後等待已經斷線的那一端重新連線啟動

產品規格

Technology

Standards

IEEE 802.3 10BASE-T

IEEE 802.3u 100BASE-TX

IEEE 802.3ab 1000BASE-T

Forward and Filtering Rate

14,880pps for 10Mbps

148,810pps for 100Mbps

Packet Buffer Memory

128K bits

Processing Type

Store-and-forward

Auto Negotiation

Half-Duplex back-pressure and IEEE 802.3x Full-Duplex flow control

Auto MDI/MDIX

Interface

Ethernet Ports

10/100BASE-TX: 2 ports

100BASE-FX: 2 ports

LED Indicators

Per Unit: Power1, Power2, Alarm

Per 10/100BASE-TX port: Link/Activity, 100, Full-Duplex/Collision, LFPT

Per 100BASE-FX port: Link/Activity, Full-Duplex/Collision

Relay Contact

Dry contact with current 0.6A/30VDC

Power

Input

12-48VDC

Power Consumption

5.28W Max., 12~48VDC, 0.4~0.11A

Protection

Overload Current Protection

Reverse Polarity Protection

Mechanical

Casing

Aluminum Case

IP30

Dimensions

50 x 110 x 135mm (W x D x H)

(1.97" x 4.33" x 5.31")

Weight

1.2kg (2.64lbs.)

Installation

DIN-Rail (top hat type 35mm) or panel mounting

Environment

Operating Temperature

-40 to 75°C (-40 to 167°F)

Storage Temperature

-40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

5% to 95% (non-condensing)

Regulatory Approvals

ISO

Manufactured in an ISO 9001 facility

Safety

UL 61010

EMC

FCC Part 15B Class A

VCCI Class A

EN 61000-6-4

EN 61000-6-2 Class A

EN 55032 Class A

EMS

EN 61000-6-2

• EN 61000-4-2 (ESD Standards)

• EN 61000-4-3 (Radiated FRI 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)

IEC 60068-2-27 Ea (Shock)

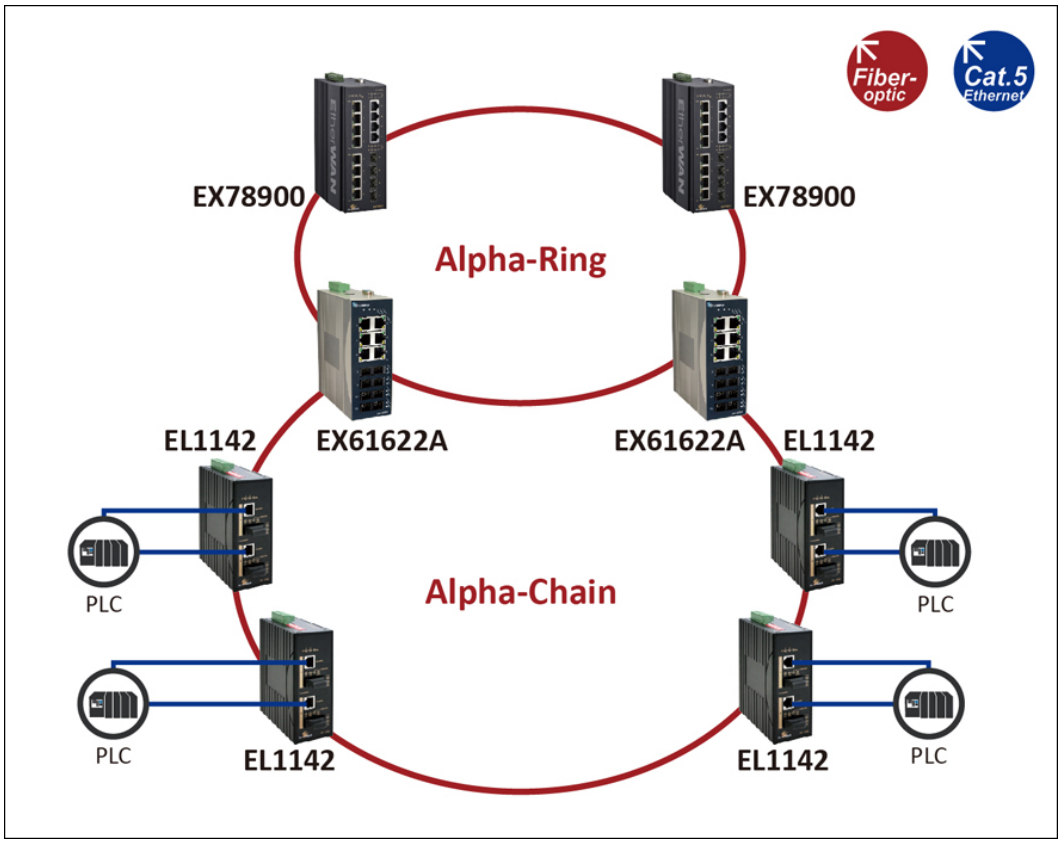
FED STD 101C Method 5007.1 (Free fall w/ package)

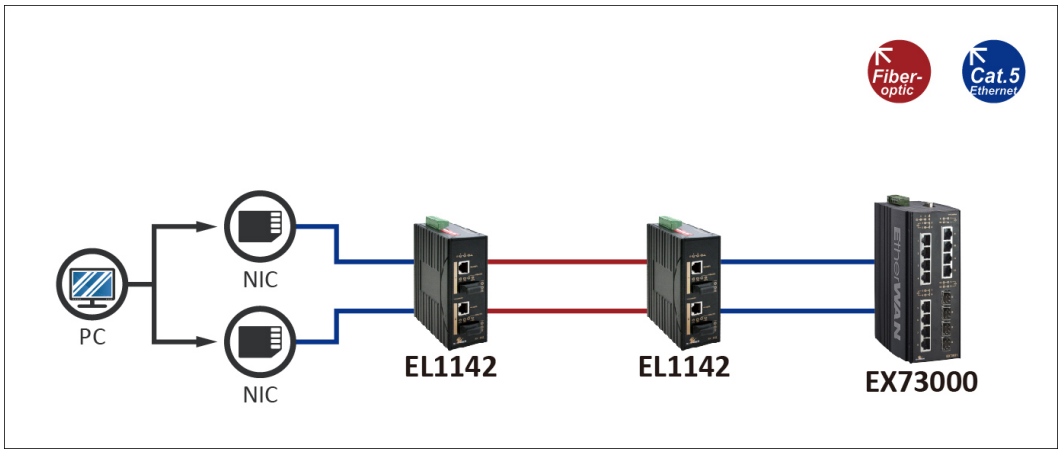
Industrial Compliance

IEC 61850-3/IEEE 1613

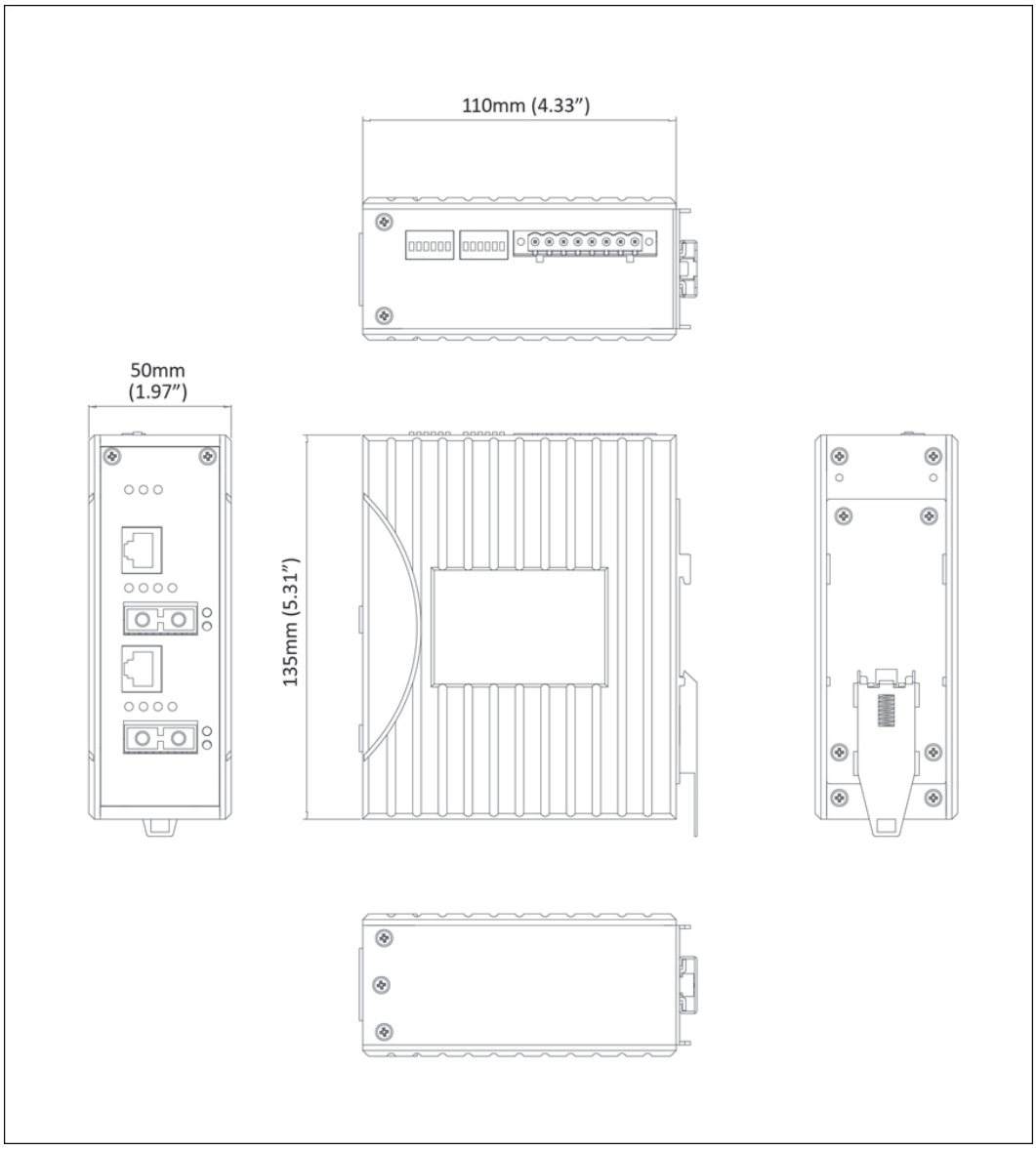
EN 50121-4

產品應用圖


Fiber-optic
Cat.5 Ethernet
EX78900
EX78900
Alpha-Ring
EL1142
EX61622A
EX61622A
EL1142
PLC
PLC
Alpha-Chain
PLC
EL1142
EL1142
PLC


Fiber-optic
Cat.5 Ethernet
PC
NIC
NIC
EL1142
EL1142
EX73000

產品尺寸圖



訂購型號

型號

EL1142-X0B	2-Port 10/100BASE-TX +2-Port 100BASE-FX IEC 61850-3/IEEE 1613 Hardened Media Converter

* DIN-Rail mounting kit included.

100BASE-X Fiber Options (X)

1	Multi Mode (SC) - 2Km (1310nm)
2	Multi Mode (ST) - 2Km (1310nm)
A	Single Mode (SC) - 20Km (1310nm)
B	Single Mode (SC) - 40Km (1310nm)
H	Single Mode (ST) - 20Km (1310nm)

Optional Accessories

KP-AA96-480	KP-AA96-480 Panel mounting kit
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
EDR-120-24	120W/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

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