

## EL9020 系列

強固級 10/100/1000BASE-TX- Gigabit SFP 光電轉換器



### 產品介紹

本產品自2020年12月15日起停產。請點選 [此處](#) 尋找替代產品。

The EL9020 Series provides media conversion between 10/100/1000BASE-TX and 1000BASE SFP Fiber. Built specifically for missioncritical applications in harsh environments, the EL9020's hardened design features high shock & vibration resistance, electrical noise immunity, wide operating temperature range from -40 to 75°C, and ruggedized aluminum housing. With triple power inputs, link down alarming, Link-Fault-Pass-Through and a wide range of fiber connectivity options the EL9020 is the ideal media converter for environments where connectivity is crucial.

EtherWAN — "When Connectivity is Crucial."

## 產品亮點

### Gigabit Connectivity

- » Auto 10/100/1000BASE-TX and 1000BASE-SX/LX/BX Ethernet transmission conversion
- » 1000Mbps Full duplex, 10/100Mbps Full/Half duplex
- » SFP socket flexible for Gigabit fiber optic expansion

### UL 508 Certification

- » Specific design for industrial communication applications with UL 508 safety certification

### Wide Operating Temperature

- » -40 to 75°C wide operating temperature range design is suitable for installation in outdoor cabinet

## 產品規格

### 技術

#### 標準

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-SX/1000BASE-LX
- IEEE 802.3x Full duplex and flow control

#### Forward and Filtering Rate

- 1,488,100pps for 1000Mbps

#### 傳輸型式

- Auto Negotiation
  - Half duplex back-pressure and IEEE 802.3x full-duplex flow control
  - Auto-MDI/MDIX
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### 電源

#### 輸入電壓

- 12-48VDC (Terminal Block)
- 12VDC (DC Jack)

#### 電力功耗

- 7.68W Max, 0.16A@48VDC

#### Protection

- Overload current protection
  - Reverse polarity protection
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### 機構

#### 機殼

- Aluminum Case
- IP30

#### 尺寸

- 50 x 110 x 135mm (W x D x H)  
(1.97" x 4.33" x 5.31")

### 重量

- 0.8Kg (1.76lbs.)

### 安裝方式

- DIN-Rail (Top hat type 35mm), Panel, or Rack mounting
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## 介面

### 乙太網路埠

- 10/100/1000BASE-TX: 1 port
- Gigabit SFP: 1 port

### LED 指示燈號

- Per Unit: Power 1, Power 2, Power 3, Fault, LFPT
- Per 10/100/1000TX Port: Link/Activity, 100M, 1000M, Full-duplex/Collision
- Per Gigabit SFP Port : Link/Activity

### DIP Switch

- No.1: LFPT On/Off
- No.2: Alarm for copper port On/Off
- No.3: Alarm for fiber port On/Off
- No.4: Auto-negotiation for fiber port On/Off

### Alarm Contact

- Relay contact rating with current 1A/30VDC, 0.5A/120VAC
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## 環境

### 工作溫度

- -40 to 75°C (-40 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)
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## 通過認證

### ISO

- Manufactured in an ISO 9001 facility

### Safety

UL 508

### EMI

FCC Part 15B Class A

VCCI Class A

EN 55022

EN 61000-3-2

EN 61000-3-3

EN 61000-6-3

### 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)

IEC 60068-2-27 Ea (Shock)

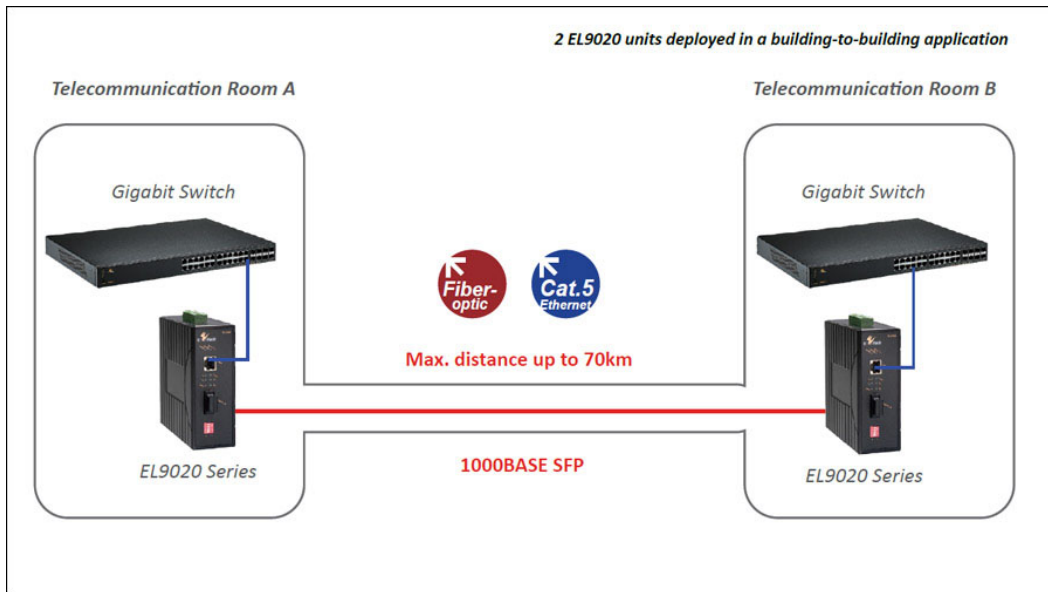
FED STD 101C Method 5007.1 (Free fall w/package)

### Industrial Compliance

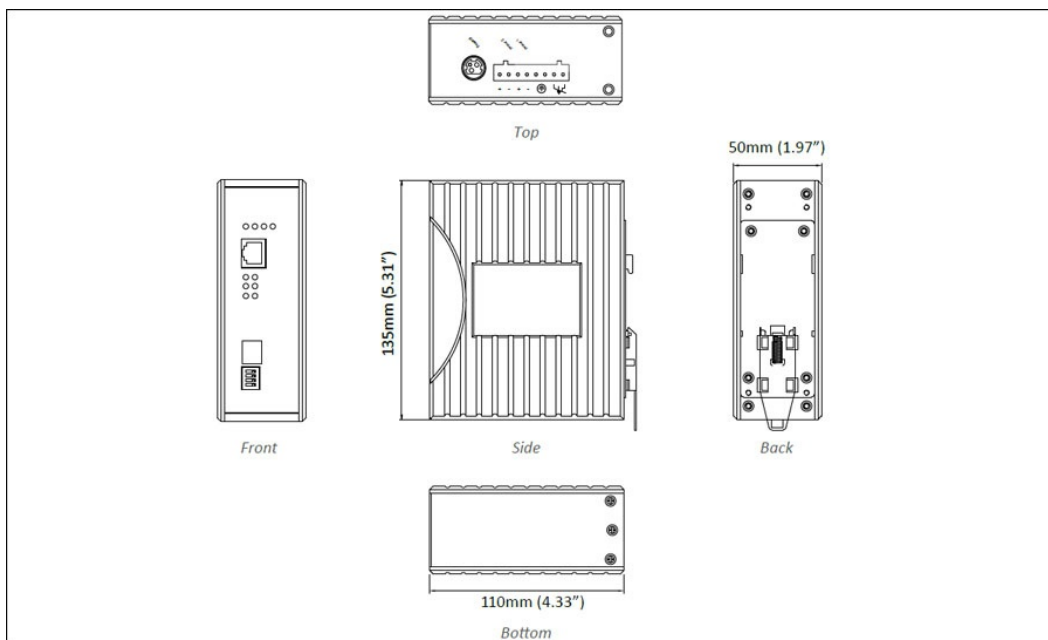
NEMA TS2

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## 產品應用圖



## 產品尺寸圖



## 訂購型號

### 型號

<b>EL9020-00B</b>	10/100/1000BASE-TX to Gigabit SFP Hardened Media Converter
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\* DIN-Rail mounting kit included.

### Optional Accessories

<b>KP-AA96-480</b>	Panel mounting kit
<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
<b>EX41-145044-X</b>	Power Supply 45W 12VDC with Latch (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA

### Hardened SFP Gigabit Fiber Transceivers

Part Number	Distance	Cable Type	Connector Type	Wavelength
EX-1250NSP-SB1L-A S	275m/550m	62.5/125µm/50/125 µm, MM	Duplex LC	850nm
EX-1250TSP-MB4L-A S	10Km	9/125µm, SM	Duplex LC	1310nm
EX-LS38-C3L-TI-N-EB (DDM)	40Km	9/125µm, SM	Duplex LC	1310nm
EX-LS48-C3U-TI-N-EB (DDM)	70Km	9/125µm, SM	Duplex LC	1550nm
EX-1250TBP-MB1L-A S	550m	62.5/125µm/50/125 µm, MM	Single LC	TX: 1310nm/RX: 1550nm
EX-1250TBP-LB1L-A S	550m	62.5/125µm/50/125 µm, MM	Single LC	TX: 1550nm/RX: 1310nm

EX-1250TBP-MB4L-A S	10Km	9/125μm, SM	Single LC	TX: 1310nm/RX: 1550nm
EX-1250TBP-KB4L-A S	10Km	9/125μm, SM	Single LC	TX: 1550nm/RX: 1310nm
EX-1250TBP-MB5L-A S	20Km	9/125μm, SM	Single LC	TX: 1310nm/RX: 1550nm
EX-1250TBP-KB5L-A S	20Km	9/125μm, SM	Single LC	TX: 1550nm/RX: 1310nm

\* More SFP options also available upon request.

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