

## EM1020 系列

1000BASE-T-Gigabit SFP光電轉換器



### 產品介紹

**本產品自2020年8月28日起停產。請點選 [此處](#) 尋找替代產品。**

The EM1020 Series provides media conversion between 1000BASE-T(X) and 1000BASE SFP Fiber. The EM1020's fiber design is compatible to 1000BASE SFP fiber transceiver. Also, through DIP switch selection, Link-Fault-Pass-Through (LFPT) function can be active or disabled.

With Gigabit transmission rate, the EM1020 supports Jumbo Frame up to 9K bytes. Also, this commercial grade Gigabit media converter supports EtherWAN's EMC1600 chassis system for easy group installation. the EM1020 is the ideal media converter for enterprise environments.

EtherWAN — "When Connectivity is Crucial."

## 產品亮點

### Gigabit Connectivity

- » 1000BASE-TX and 1000BASE-SX/LX/BX Ethernet SFP transmission conversion
- » 1000Mbps Full duplex SFP

### Link-Fault-Pass-Through (LFPT)

- » LFPT function let network operators be aware of network connection status
- » When fiber link is down, LFPT function will turn down Ethernet port to inform connected device that the link is down and vice versa

### Optional Chassis System

- » Supports wall mounting or EtherWAN's EMC1600 chassis system for easy group installation with power redundancy

## 產品規格

### Technology

#### Standards

- IEEE802.3ab, 1000BASE-T
- IEEE802.3z, 1000BASE-SX/1000BASE-LX
- IEEE802.3x, Full duplex and flow control

#### Forward and Filtering Rate

- 1,488,100pps for 1000Mbps

#### Processing Type

- Auto Negotiation
- Auto MDI/MDIX

---

### Power

#### Power Input

- Input Voltage: 12VDC

#### Power Consumption

- 2.4W Max. 0.2A @ 12VDC

---

### Mechanical

#### Casing

- Aluminum Case

#### Dimensions

- 80.3mm (W) x 109.2mm (D) x 23.8mm (H)  
(3.16" (W) x 4.3" (D) x 0.94" (H))

#### Weight

- 150g (0.336lbs.)

#### Installation

- Wall mounting or use with EMC1600 media converter chassis system

---

## Interface

### Ethernet Port

- 1000BASE-T: 1 port
- Gigabit SFP: 1 port

### LED Indicators

- Per Unit: Power Status (Power)
- Per Port: 1000T: Link, Full-duplex/Collision Gigabit SFP: Link, Transmit, Receive

---

## Environment

### Operating Temperature

- 0°C to 45°C (32°F to 113°F)

### Storage Temperature

- -10°C to 70°C (-14°F to 158°F)

### Ambient Relative Humidity

- 5% to 95% (non-condensing)

---

## Regulatory Approvals

### ISO

- Manufactured in an ISO9001 facility

### Emission Compliances

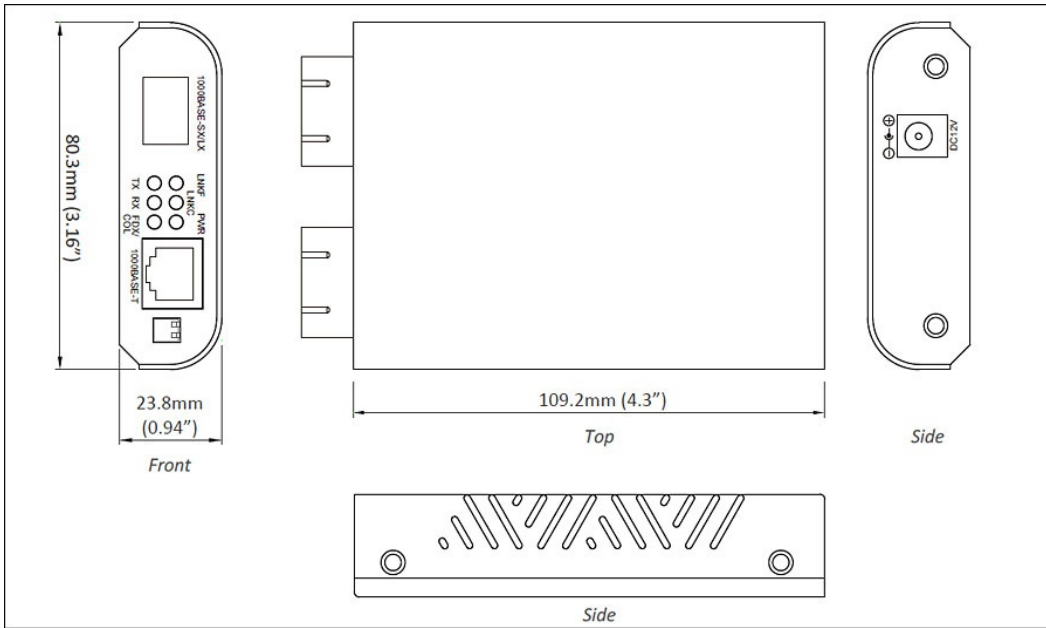
CE Mark Class A

FCC Part 15B Class A

VCCI Class A

---

## 產品尺寸圖



## 訂購型號

### Model

|                 |   |
|-----------------|---|
| <b>EM1020-X</b> | 1000BASE-T to Gigabit SFP Media Converter |
|-----------------|---|

### Power Adapter Options (X)

|           |                                       |
|-----------|---------------------------------------|
| <b>A</b>  | with external power adapter for AU    |
| <b>E</b>  | with external power adapter for EU    |
| <b>J</b>  | with external power adapter for JP    |
| <b>K</b>  | with external power adapter for UK    |
| <b>U</b>  | with external power adapter for USA   |
| <b>3C</b> | with external power adapter for China |

### Optional SFP Non-Hardened Type Gigabit Fiber Transceivers

| Model Name               | Distance  | Cable Type              | Connector Type | Wavelength                     | Link Budget** | Optical Output Power | Sensitivity |
|--------------------------|-----------|-------------------------|----------------|--------------------------------|---------------|----------------------|-------------|
| <b>EX-1250NSP-SB1L S</b> | 275m/550m | 62.5/125µm/50/125µm, MM | Duplex LC      | 850nm                          | 7.5dBm        | -9.5 to -4dBm        | -17dBm      |
| <b>EX-1250TBP-MB1L S</b> | 550m      | 62.5/125µm/50/125µm, MM | Single LC      | TX:<br>1310nm<br>RX:<br>1550nm | 7dBm          | -10 to -4dBm         | -17dBm      |
| <b>EX-1250TBP-LB1L S</b> | 550m      | 62.5/125µm/50/125µm, MM | Single LC      | TX:<br>1550nm<br>RX:<br>1310nm | 7dBm          | -10 to -4dBm         | -17dBm      |
| <b>EX-1250TSP-MB4L S</b> | 10Km      | 9/125µm, SM             | Duplex LC      | 1310nm                         | 11.5dBm       | -9.5 to -3dBm        | -21dBm      |

|                                       |      |                |           |                                |       |                 |        |
|---------------------------------------|------|----------------|-----------|--------------------------------|-------|-----------------|--------|
| <b>EX-1250TBP-MB4L S</b>              | 10Km | 9/125μm,<br>SM | Single LC | TX:<br>1310nm<br>RX:<br>1550nm | 12dBm | -9 to -<br>3dBm | -21dBm |
| <b>EX-1250TBP-KB4L S</b>              | 10Km | 9/125μm,<br>SM | Single LC | TX:<br>1550nm<br>RX:<br>1310nm | 12dBm | -9 to -<br>3dBm | -21dBm |
| <b>EX-1250TBP-MB5L S</b>              | 20Km | 9/125μm,<br>SM | Single LC | TX:<br>1310nm<br>RX:<br>1550nm | 15dBm | -8 to -<br>3dBm | -23dBm |
| <b>EX-1250TBP-KB5L S</b>              | 20Km | 9/125μm,<br>SM | Single LC | TX:<br>1550nm<br>RX:<br>1310nm | 15dBm | -8 to -<br>3dBm | -23dBm |
| <b>EX-LS38-C3L-TC-N-<br/>EB (DDM)</b> | 40Km | 9/125μm,<br>SM | Duplex LC | 1310nm                         | 20dBm | -3 to<br>+2dBm  | -23dBm |
| <b>EX-LS38-C3L-TC-N-<br/>CE (DDM)</b> | 40Km | 9/125μm,<br>SM | Single LC | TX:<br>1310nm<br>RX:<br>1550nm | 20dBm | -3 to<br>+2dBm  | -23dBm |
| <b>EX-LS48-C3L-TC-N-<br/>CE (DDM)</b> | 40Km | 9/125μm,<br>SM | Single LC | TX:<br>1550nm<br>RX:<br>1310nm | 20dBm | -3 to<br>+2dBm  | -23dBm |

\* More SFP options upon request.

\*\* Link Budget data is based on pair of the same modules.

