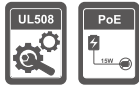


## EL1033 Series

Industrial 10/100BASE-TX to 100BASE-FX Media Converter with PoE/PD



### Value

- > Specific design for industrial communication application with UL508 safety certification
- > Complies with IEEE802.3af PoE/PD standard
- > Easy for power source management from dual power interfaces design

### Features

- > Complies with 802.3af PoE/PD standard
- > DIP switch configuration for "Link-Fault-Pass Through" speed, duplex mode
- > 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- > Supports Full wire-speed forwarding rate
- > Offers 2.25M bits buffer memory
- > Industrial operating temperature -10°C to 60°C (14°F to 140°F)
- > Aluminum case
- > Supports DIN-Rail, Panel or Wall Mounting installation

### Ordering Information

EL1033-X0B Industrial 10/100BASE-TX to 100BASE-FX Media converter with PoE/PD

#### 100FX Fiber Options :

(X) = 1 : Multi Mode (SC)

2 : Multi Mode (ST)

A : Single Mode (SC) - 20Km

B : Single Mode (SC) - 40Km

H : Single Mode (ST) - 20Km

6 : Multi Mode (SC) WDM -TX:1310nm/RX:1550nm - 2Km

7 : Multi Mode (SC) WDM -TX:1550nm/RX:1310nm - 2Km

8 : Multi Mode (SC) WDM -TX:1310nm/RX:1550nm - 5Km

9 : Multi Mode (SC) WDM -TX:1550nm/RX:1310nm - 5Km

P : Single Mode (SC) WDM -TX:1310nm/RX:1550nm - 20Km

Q : Single Mode (SC) WDM -TX:1550nm/RX:1310nm - 20Km

R : Single Mode (SC) WDM -TX:1310nm/RX:1550nm - 40Km

S : Single Mode (SC) WDM -TX:1550nm/RX:1310nm - 40Km

\*More 100FX Fiber Options available upon request

#### Power Supply : (Optional)

\*Option A - The Terminal Block type external power supply are not included. Please order the part number: [DR-75-48](#)

\*\*Option B - The external power adapter and power cord are not included. Please order the part number for indoor use: [AS-120P-48](#)

## Specifications

Technology	
Standards	<ul style="list-style-type: none"> <li>• IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX, IEEE802.3af PoE</li> </ul>
Forward and Filtering Rate	<ul style="list-style-type: none"> <li>• 14,880pps for 10Mbps</li> <li>• 148,810pps for 100Mbps</li> </ul>
Packet Buffer Memory	<ul style="list-style-type: none"> <li>• 2.25M bits</li> </ul>
Processing Type	<ul style="list-style-type: none"> <li>• Store-and-Forward</li> <li>• Half-duplex back-pressure and IEEE802.3x full-duplex flow control</li> </ul>

Power	
Input	<ul style="list-style-type: none"> <li>• Input Voltage: 48VDC</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>• 3.6W Max. 0.075A @ 48VDC</li> </ul>
Overload Current Protection	<ul style="list-style-type: none"> <li>• Present</li> </ul>
Reverse Polarity Protection	<ul style="list-style-type: none"> <li>• Present</li> </ul>

Mechanical	
Casing	<ul style="list-style-type: none"> <li>• Aluminum case</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• 70mm (W) x 110mm (D) x 30mm (H) (2.76" (W) x 4.33" (D) x 1.18" (H))</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 0.25Kg (0.55lb.)</li> </ul>
Installation	<ul style="list-style-type: none"> <li>• DIN-Rail (Top hat type 35mm), Panel, Wall Mounting</li> </ul>

Interface	
Ethernet Port	<ul style="list-style-type: none"> <li>• 10/100BASE-TX: 1 port</li> <li>• 100BASE-FX: 1 port</li> </ul>
LED Indicators	<ul style="list-style-type: none"> <li>• Per Unit: Power Status (Power)</li> <li>• Per Port: 10/100TX: Link/Activity, Full-duplex/Collision, 100FX: Link/Activity</li> <li>• PoE: PSE connect/PSE disconnect</li> </ul>

Environment	
Operating Temperature	<ul style="list-style-type: none"> <li>• -10°C to 60°C (14°F to 140°F)</li> <li>• Test @ -20°C to 70°C (-4°F to 158°F)</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>• -40°C to 85°C (-40°F to 185°F)</li> </ul>
Ambient Relative Humidity	<ul style="list-style-type: none"> <li>• 5% to 95% (non-condensing)</li> </ul>

Regulatory Approvals	
ISO	<ul style="list-style-type: none"> <li>• Manufactured in an ISO9001 facility</li> </ul>
Safety	<ul style="list-style-type: none"> <li>• UL508</li> </ul>
EMI	<ul style="list-style-type: none"> <li>• FCC Part 15, Class A</li> <li>• EN61000-6-4                             <ul style="list-style-type: none"> <li>- EN55022</li> <li>- EN61000-3-2</li> <li>- EN61000-3-3</li> </ul> </li> </ul>
EMS	<ul style="list-style-type: none"> <li>• EN61000-6-2                             <ul style="list-style-type: none"> <li>- EN61000-4-2 (ESD Standards) Contact: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B</li> <li>- EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A</li> <li>- EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B</li> <li>- EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B</li> <li>- EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A</li> <li>- EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A</li> </ul> </li> </ul>
Environmental Test Compliance	<ul style="list-style-type: none"> <li>• IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport)</li> <li>• IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)</li> <li>• IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)</li> </ul>

## Diagrams

Unit: mm

