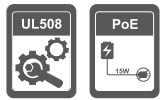


# EL1032 Series

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



### Value

- › Specific design for industrial communication applications with UL508 safety certification
- › Fully complies with IEEE802.3af PoE/PSE standard
- › Easy power source management from dual power interfaces

## Features

- › Complies with IEEE802.3af PoE/PSE standard to offer 15.4W for powering PoE/PD device, such as IP Camera, Wireless AP and VoIP phone.
- › 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

EL1032-X-O-B Industrial 10/100BASE-TX to 100BASE-FX Media converter with PoE/PSE

### 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 supplies 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> <li>19.2W, 0.4A @ 48VDC when PoE link with PD Class 0</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)</li> <li>(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, Speed</li> <li>100FX: Link/Activity</li> <li>PoE: PD connect/PD 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)                   <ul style="list-style-type: none"> <li>Contact: + / - 4KV; Criteria B</li> <li>Air: + / - 8KV; Criteria B</li> </ul> </li> <li>EN61000-4-3 (Radiated RFI Standards)                   <ul style="list-style-type: none"> <li>10V/m, 80 to 1000MHz; 80% AM Criteria A</li> </ul> </li> <li>EN61000-4-4 (Burst Standards)                   <ul style="list-style-type: none"> <li>Signal Ports: + / - 4KV; Criteria B</li> <li>D.C. Power Ports: + / - 4KV; Criteria B</li> </ul> </li> <li>EN61000-4-5 (Surge Standards)                   <ul style="list-style-type: none"> <li>Signal Ports: + / - 1KV; Line-to-Line; Criteria B</li> <li>D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B</li> </ul> </li> <li>EN61000-4-6 (Induced RFI Standards)                   <ul style="list-style-type: none"> <li>Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A</li> <li>D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A</li> </ul> </li> <li>EN61000-4-8 (Magnetic Field Standards)                   <ul style="list-style-type: none"> <li>30A/m @ 50, 60Hz; Criteria A</li> </ul> </li> </ul> </li> </ul> |
| Environmental Test Compliance | <ul style="list-style-type: none"> <li>IEC60068-2-6 Fc (Vibration Resistance)               <ul style="list-style-type: none"> <li>5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport)</li> </ul> </li> <li>IEC60068-2-27 Ea (Shock)               <ul style="list-style-type: none"> <li>25g @ 11ms (Half-Sine Shock Pulse; Operation)</li> <li>50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)</li> </ul> </li> <li>IEC60068-2-32 Ed (Free Fall)               <ul style="list-style-type: none"> <li>1M (3.281ft.)</li> </ul> </li> </ul>  |

## Diagrams

Unit: mm

