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

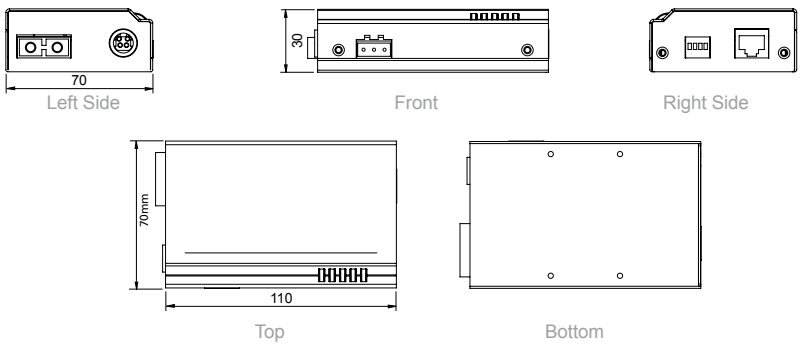
Technology	
Standards	• IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX, IEEE802.3af PoE
Forward and Filtering Rate	• 14,880pps for 10Mbps • 148,810pps for 100Mbps
Packet Buffer Memory	• 2.25M bits
Processing Type	• Store-and-Forward • Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Power	
Input	• Input Voltage: 48VDC
Power Consumption	• 3.6W Max. 0.075A @ 48VDC
Overload Current Protection	• Present
Reverse Polarity Protection	• Present

Mechanical	
Casing	• Aluminum case
Dimensions	• 70mm (W) x 110mm (D) x 30mm (H) (2.76" (W) x 4.33" (D) x 1.18" (H))
Weight	• 0.25Kg (0.55lb.)
Installation	• DIN-Rail (Top hat type 35mm), Panel, Wall Mounting
Interface	
Ethernet Port	• 10/100BASE-TX: 1 port • 100BASE-FX: 1 port
LED Indicators	• Per Unit: Power Status (Power) • Per Port: 10/100TX: Link/Activity, Full-duplex/Collision, 100FX: Link/Activity • PoE: PSE connect/PSE disconnect

Environment	
Operating Temperature	• -10°C to 60°C (14°F to 140°F) Test @ -20°C to 70°C (-4°F to 158°F)
Storage Temperature	• -40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	• 5% to 95% (non-condensing)

Regulatory Approvals	
ISO	• Manufactured in an ISO9001 facility
Safety	• UL508
EMI	• FCC Part 15, Class A • EN61000-6-4 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	• EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A - EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B - EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B - 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 - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A
Environmental Test Compliance	• IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) • IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) • IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)

Diagrams

Unit: mm