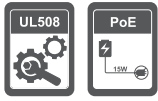


EL1033 Series

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 228K 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) -2Km (1310nm)
 2 : Multi Mode (ST) -2Km (1310nm)
 A : Single Mode (SC) - 20Km (1310nm)
 B : Single Mode (SC) - 40Km (1310nm)
 H : Single Mode (ST) - 20Km (1310nm)
 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: [GS120A-48](#)

Specifications

| Technology | |
|----------------------------|--|
| Standards | <ul style="list-style-type: none"> IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX, IEEE802.3af PoE |
| Forward and Filtering Rate | <ul style="list-style-type: none"> 14,880pps for 10Mbps 148,810pps for 100Mbps |
| Packet Buffer Memory | <ul style="list-style-type: none"> 228K bits |
| Processing Type | <ul style="list-style-type: none"> Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control |

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

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

| Interface | |
|----------------|---|
| Ethernet Port | <ul style="list-style-type: none"> 10/100BASE-TX: 1 port 100BASE-FX: 1 port |
| LED Indicators | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> -10°C to 60°C (14°F to 140°F) Test @ -20°C to 70°C (-4°F to 158°F) |
| Storage Temperature | <ul style="list-style-type: none"> -40°C to 85°C (-40°F to 185°F) |
| Ambient Relative Humidity | <ul style="list-style-type: none"> 5% to 95% (non-condensing) |

| Regulatory Approvals | |
|-------------------------------|--|
| ISO | <ul style="list-style-type: none"> Manufactured in an ISO9001 facility |
| Safety | <ul style="list-style-type: none"> UL508 |
| EMI | <ul style="list-style-type: none"> FCC Part 15, Class A EN61000-6-4 <ul style="list-style-type: none"> EN55022 EN61000-3-2 EN61000-3-3 |
| EMS | <ul style="list-style-type: none"> EN61000-6-2 <ul style="list-style-type: none"> EN61000-4-2 (ESD Standards) Contact: + / - 4KV Air: + / - 8KV EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV D.C. Power Ports: + / - 4KV EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line D.C. Power Ports: + / - 0.5KV; Line-to-earth EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz |
| Environmental Test Compliance | <ul style="list-style-type: none"> 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) FED STD 101C Method 5007.1 (Free fall w/ package) -Tested with Cross Weight and Drop High standard table |

Diagrams

Unit: mm

