

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-**X**OB 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"> 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"> 2.25M 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; 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	<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) IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)

Diagrams

Unit: mm

