

EL1032T Series

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



Value

- > Supports IEEE802.3at PoE/PSE standard
- > Easy power source management from dual power interfaces
- > Industrial operating temperature range from -10°C to 60°C

Features

- > Supports IEEE802.3at PoE/PSE standards
- > DIP switch configuration for "Link-Fault-Pass-Through"
- > 10/100Mbps Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- > Supports full wire-speed forwarding rate
- > Offers 228Kb packet buffer
- > Industrial operating temperature -10°C to 60°C (14°F to 140°F)
- > Aluminum case
- > Supports DIN-Rail, panel or wall mounting installations

Ordering Information

EL1032T-X0B Industrial 10/100BASE-TX to 100BASE-FX media converter with IEEE802.3af 15.4W and IEEE802.3at 30W PoE/PSE

100FX Fiber Options:

- (X) = 1 : Multi Mode (SC)
2 : Multi Mode (ST)
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 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:

[GS120A-48](#)

Specifications

Technology	
Standards	<ul style="list-style-type: none"> • IEEE802.3, 10BASE-T • IEEE802.3u, 100BASE-TX/FX
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"> • 228Kb
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: 48 to 57VDC
Power Consumption	<ul style="list-style-type: none"> • Device: Max. 3.6W (Without PoE) • PoE power budget: 30W Max. (depends on power input)
PoE Power Output	<ul style="list-style-type: none"> • IEEE802.3at: up to 30W/port, 50 to 57VDC, 500mA Max.
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/ACT, full-duplex/collision, 100FX: Link/ACT • PoE: PD connect/PD 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

EMI	
FCC Part 15, Class A	

EN61000-6-4	<ul style="list-style-type: none"> • EN55022
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EMS	
EN61000-6-2	

EN61000-4-2 (ESD Standards)	<ul style="list-style-type: none"> • Contact: + / - 4KV • Air: + / - 8KV
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EN61000-4-3 (Radiated RFI Standards)	<ul style="list-style-type: none"> • 10V/m, 80 to 1000MHz; 80% AM
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EN61000-4-4 (Burst Standards)	<ul style="list-style-type: none"> • Signal Ports: + / - 4KV • D.C. Power Ports: + / - 4KV
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EN61000-4-5 (Surge Standards)	<ul style="list-style-type: none"> • Signal Ports: + / - 1KV; Line-to-Line • D.C. Power Ports: + / - 0.5KV Line-to-Earth
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EN61000-4-6 (Induced RFI Standards)	<ul style="list-style-type: none"> • Signal Ports: 10Vrms @ 0.15 to 80MHz; 80% AM • D.C. Power Ports: 10V @ 0.15 to 80MHz; 80% AM
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EN61000-4-8 (Magnetic Field Standards)	<ul style="list-style-type: none"> • 30A/m @ 50,60Hz
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Environmental Test Compliance	
IEC60068-2-6 Fc (Vibration Resistance)	<ul style="list-style-type: none"> • 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport)
FED STD 101C Method5007.1 (Free fall w/ package)	<ul style="list-style-type: none"> • Tested with Cross Weight and Drop High standard table

Diagrams

Unit: mm

