

EL1032T Series

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



Overview

The EL1032T Series provides media conversion between 10/100BASE-T(X) and 100BASE-FX Fiber. Through DIP switch selection, Link-Fault-Pass-Through (LFPT) function can be active or disabled. EL1032T supports IEEE 802.3at PoE/PSE standard and can transmit power and data over one RJ45 cable. The EL1032T's industrial design features high shock/vibration resistance, electrical noise immunity and a wide operating temperature range from -10 to 60°C. EL1032T is the ideal media converter for industrial environments.

EtherWAN – “When Connectivity is Crucial”.

Spotlight

- **Power over Ethernet**
 - Supports IEEE 802.3at PoE/PSE standard and IEEE 802.3af PoE/PSE compatible
- **Dual Power Interfaces**
 - Supports both terminal block and DC jack for power input selections
- **Industrial Operating Temperature Range**
 - From -10 to 60°C, wide operating temperature is suitable for outdoor cabinet installation

Hardware Specifications

Technology

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/FX
- IEEE 802.3af/at PoE/PSE

Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps

Packet Buffer Memory

- 228Kb

Processing Type

- Store-and-Forward
- Auto Negotiation
- Half-duplex back-pressure and IEEE 802.3x full-duplex flow control
- Auto MDI/MDIX

Power

Input Voltage

- 48-57VDC

Power Consumption

- Device: Max. 3.6W (without PoE)
- PoE power budget: 30W Max. (depends on power input)

PoE Power Output

- IEEE 802.3at: up to 30W/port, 50-57VDC, 500mA Max.

Protection

- Overload current protection
- Reverse polarity protection

Mechanical

Casing

- Aluminum Case

Dimensions

- 70 x 110 x 30mm (W x D x H)
(2.76" x 4.33" x 1.18")

Weight

- 0.25Kg (0.55lb.)

Installation

- DIN-Rail (top hat type 35mm), Panel, or Wall mounting

Interface

Ethernet Port

- 10/100BASE-TX: 1 port
- 100BASE-FX: 1 port

LED Indicators

- Per Unit: Power
- Per 10/100TX Port: Link/ACT, full-duplex/collision
- Per 100FX Port: Link/ACT
- PoE: PD connect/PD disconnect

Environment

Operating Temperature

- -10 to 60°C (14 to 140°F)
Tested @ -20 to 70°C (-4 to 158°F)

Storage Temperature

- -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO

- Manufactured in an ISO 9001 facility

EMI

FCC Part 15B Class A

EN 61000-6-4

EN 55022

EMS

EN 61000-6-2

- EN 61000-4-2 (ESD Standards)
- EN 61000-4-3 (Radiated RFI Standards)
- EN 61000-4-4 (Burst Standards)
- EN 61000-4-5 (Surge Standards)
- EN 61000-4-6 (Induced RFI Standards)
- EN 61000-4-8 (Magnetic Field Standards)

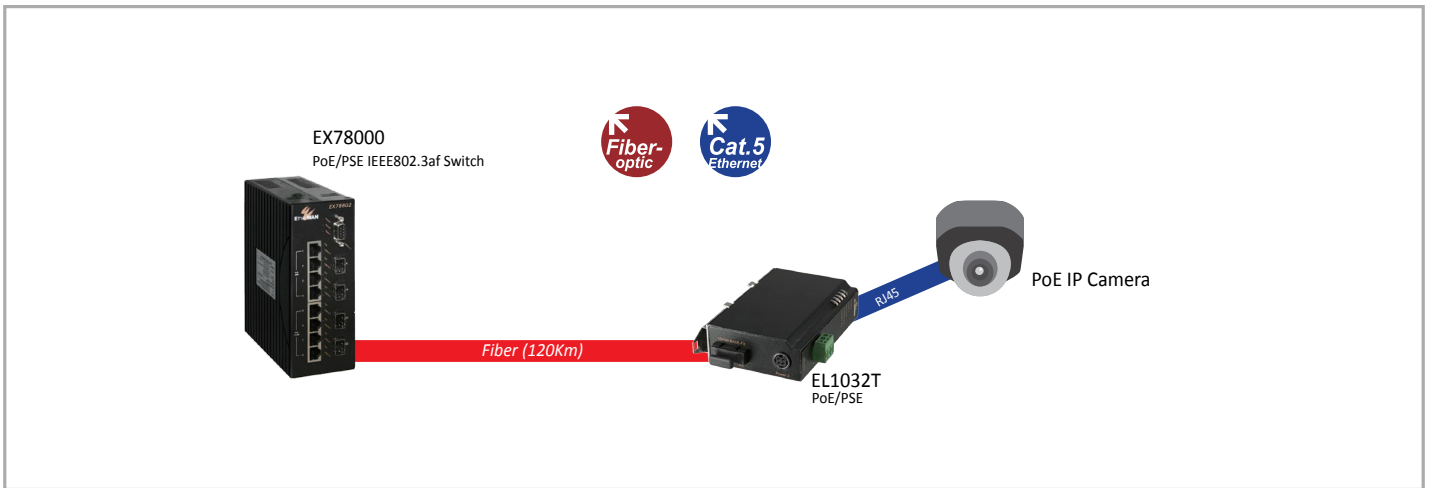
Environmental Test Compliance

IEC 60068-2-6 Fc (Vibration Resistance)

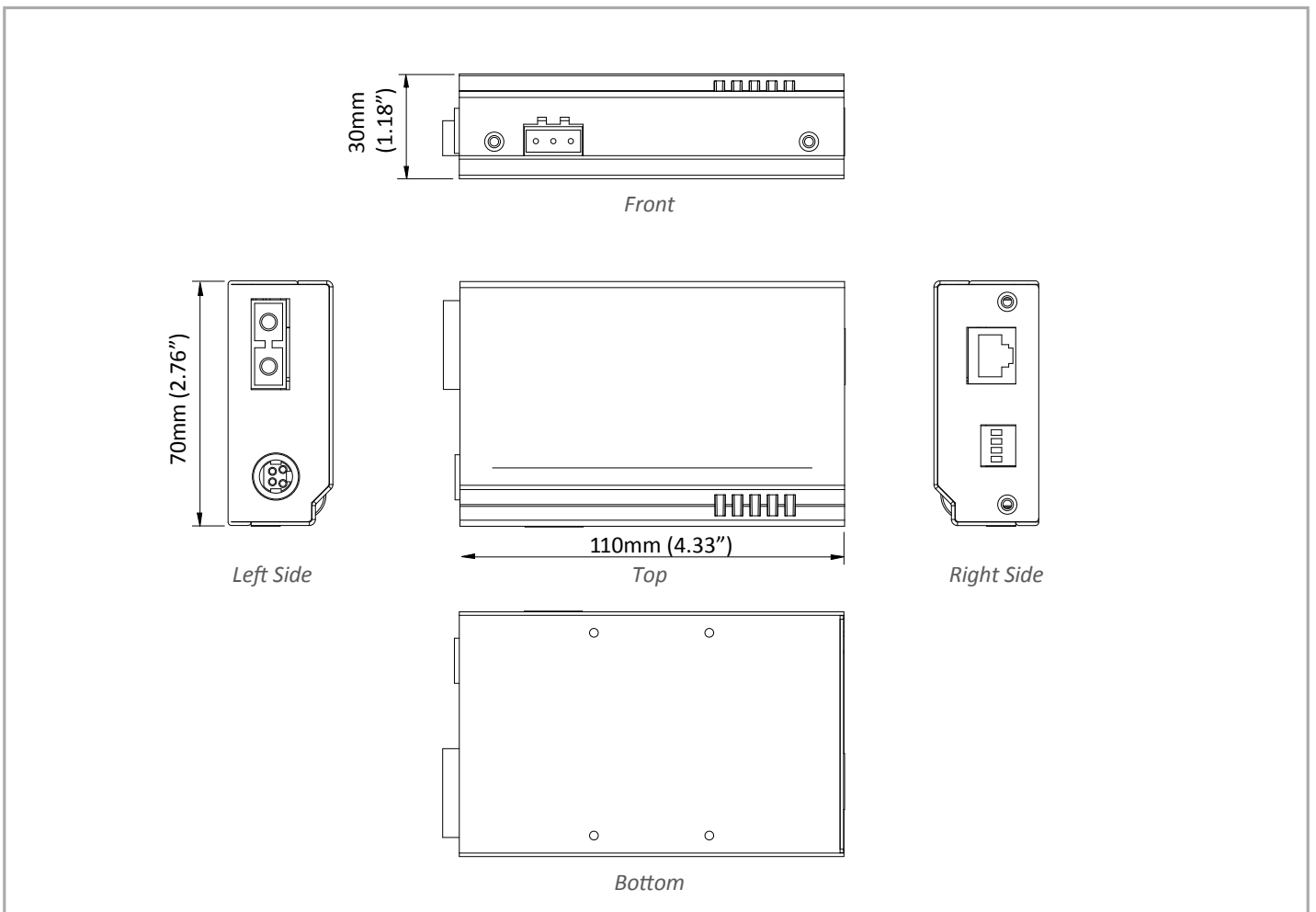
IEC 60068-2-27 Ea (Shock)

FED STD 101C Method 5007.1 (Free fall w/package)

Application Diagram



Dimensions



Ordering Information

Model

EL1032T-X0B	10/100BASE-TX to 100BASE-FX Industrial Media Converter with IEEE 802.3af 15.4W and IEEE 802.3at 30W PoE/PSE
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* DIN-Rail mounting kit included.

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 also available upon request.

Optional Accessories

EDR-75-48	75W/1.6A DIN-Rail 48VDC Industrial Power Supply
EXGS-120A-48	Power Supply 120W 48VDC with Latch