

EL50 Series

Mini-Sized 10/100Base-TX to 100Base-FX Media Converter



Overview

EtherWAN offers its Media Converter Series as a concrete and affordable answer in response to an increase in fiber optics cabling deployment. EtherWAN's EL50 Series is one of the most complete solutions in media conversion. EL50 Series is available in all varieties of fiber connectors and modes: The EL50 is a reasonably priced and user friendly media converter that supports easy to read LEDs which indicate Link and Activity status. In addition, the EL50 is the most functional media converter on the market. The RJ-45 port on this unit can Auto negotiate 10/100Mbps/duplex mode and Auto-MDIX. Better than a regular converter, the EL50 has switching capability that is able to filter traffic and record MAC addresses.

Features

- ▶ Supports Link-Fault-Pass-Through
- ▶ 2048 MAC addresses
- ▶ 768K bits buffer memory
- ▶ 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- ▶ Full wire-speed forwarding rate
- ▶ 0.6A 12VDC external PSU
- ▶ 0°C to 45°C (32°F to 113°F) operating temperature range
- ▶ Metal case

Specifications

Technology

Standards:

- IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/100Base-FX, IEEE802.3x

Forward and Filtering Rate:

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

Packet Buffer Memory:

- 768K bits

Processing Type:

- Store-and-Forward
- Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Address Table Size:

- 2048 MAC addresses

Latency:

- Less than 128.9μs

Power

Input:

- Input Voltage: 12VDC
- Input Current: 0.16A

Power Consumption:

- 1.92W Max.

Mechanical

Casing:

- Metal case

Dimensions:

- 54.2mm (W) x 80.3mm (D) x 21.9mm (H)
(2.14" (W) x 3.71" (D) x 0.87" (H))

Weight:

- 140g (0.31lb.)

Environment

Operating Temperature:

- 0°C to 45°C (32°F to 113°F)

Storage Temperature:

- -10°C to 70°C (14°F to 158°F)

Ambient Relative Humidity:

- 10% to 90% (non-condensing)

Interface

LED Indicators:

- Per Port: 10/100TX: Link/Activity
100FX: Link/Activity

Designation	Typical Distance*	Nominal Wavelength	Cable Type	Connector	Optical Budget
100Base-FX	2 Km	1310 nm	62.5/125 MM	ST	12 dB
100Base-FX	2 Km	1310 nm	62.5/125 MM	SC	12 dB
100Base-FX	20 Km	1310 nm	10/125 SM	SC	17 dB
100Base-FX	75 Km	1310 nm	10/125 SM	SC	34 dB
100Base-FX	40 Km	TX: 1310 nm RX: 1550 nm	10/125 SM	SC	25 dB
100Base-FX	40 Km	TX: 1550 nm RX: 1310 nm	10/125 SM	SC	25 dB

Regulatory Approvals:

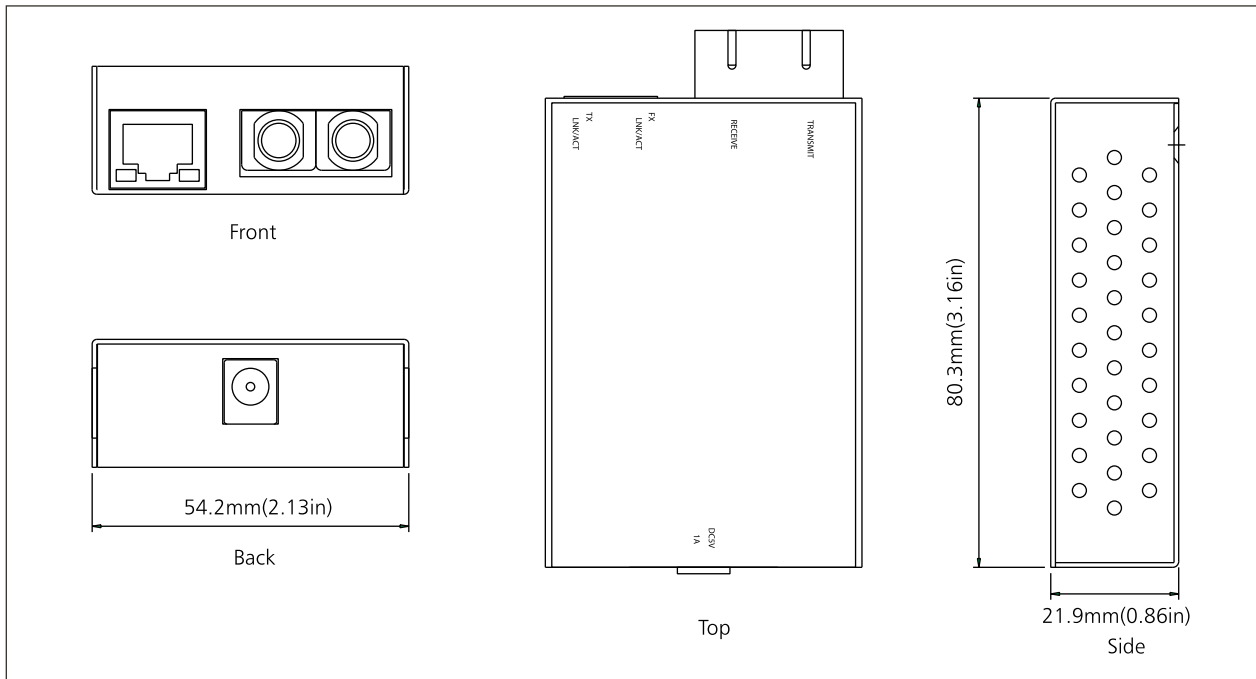
ISO:

- Manufactured in an ISO9001 facility.

Emission Compliance:

- CE Mark Class A, FCC Part 15 Class A

Diagrams



Ordering Information

EL50T	10/100Base-TX to 100Base-FX Multi Mode (ST) Media Converter
EL50C	10/100Base-TX to 100Base-FX Multi Mode (SC) Media Converter
EL50T-20	10/100Base-TX to 100Base-FX Single Mode (ST) 20Km Media Converter
EL50C-20	10/100Base-TX to 100Base-FX Single Mode (SC) 20Km Media Converter
EL50C-40	10/100Base-TX to 100Base-FX Single Mode (SC) 40Km Media Converter
EL50CA-20	10/100Base-TX to 100Base-FX Single Mode (SC) WDM -TX:1310nm/RX:1550nm -20Km Media Converter
EL50CB-20	10/100Base-TX to 100Base-FX Single Mode (SC) WDM -TX:1550nm/RX:1310nm -20Km Media Converter
EL50CA-40	10/100Base-TX to 100Base-FX Single Mode (SC) WDM -TX:1310nm/RX:1550nm -40Km Media Converter
EL50CB-40	10/100Base-TX to 100Base-FX Single Mode (SC) WDM -TX:1550nm/RX:1310nm -40Km Media Converter