EL100 Series

Fast Ethernet to Fiber Media Converter

Overview

The EL100 Series provide media conversion between 10/100BASE-T(X) and 100BASE-FX Fiber. Easy plug-andplay design facilitates network infrastructure construction. Through DIP switch selection, Link-Fault-Pass-Through (LFPT) function can be active or disabled. User can choose between store-and-forward mode and converter mode through DIP switch selection. The EL100 series is designed for SC or ST fiber connection applications. The commercial grade media converter supports EtherWAN EMC1600 chassis system for easy group installation. The EL100 is the ideal media converter for enterprise environments.

EtherWAN — "**When Connectivity is Crucial.**"

Highlights

✚ Fiber Media Converter

- Supports multi-mode and single mode fiber with SC or ST connector options

✚ DIP Switch Configurable

- Store-and-forward mode or converter mode selectable (default: store-and-forward mode)
- Link-fault-pass-through enable or disable
- Full-duplex or half-duplex of Ethernet port enable or disable
- Full-duplex or half-duplex of fiber port enable or disable

✚ Link-Fault-Pass-Through (LFPT)

- LFPT function lets network operators be aware of network connection status
- If a link fails, the LFPT function will notify the connected device and disable the connection

Specifications

✛ Interface

Ethernet Port

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

LED Indicators

- Per Unit: Power
- Per Port: 10/100TX: Link/Activity, Full duplex/Collision, Speed
- Per Port 100FX: Link/Activity, Full duplex/Collision

✛ Technology

Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX/FX
- IEEE 802.3x Full duplex and flow control

Forward/Filtering Rate

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

Packet Buffer Memory

- 128K bits

Processing Type

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

✛ Environmental

Operating Temp.

- 0 to 45°C (32 to 113°F)

Storage Temp.

- -10 to 70°C (-14 to 158°F)

Relative Humidity

- 5% to 95% (non-condensing)

✛ Regulatory

ISO

- Manufactured in ISO-9001 facility

Safety

- UL 62368-1

Emission Compliance

- CE Mark Class A
- FCC Part 15B Class A
- VCCI Class A

✛ Warranty

Length

- Limited Lifetime

Details

- www.etherwan.com/support/warranty-policy

✚ Power

Input

- 12VDC

Power Consumption

- 1.92W max. 0.16A@12VDC

✚ Physical

Casing Material

- Aluminum

Dimensions

- 80.3 x 109.2 x 23.8mm (W x D x H)
  3.16" x 4.30" x 0.94"

Weight

- 0.15kg (0.33lbs)

Installation Type

- Wall mounting, or in EMC1600 Chassis System

✚ What's Included
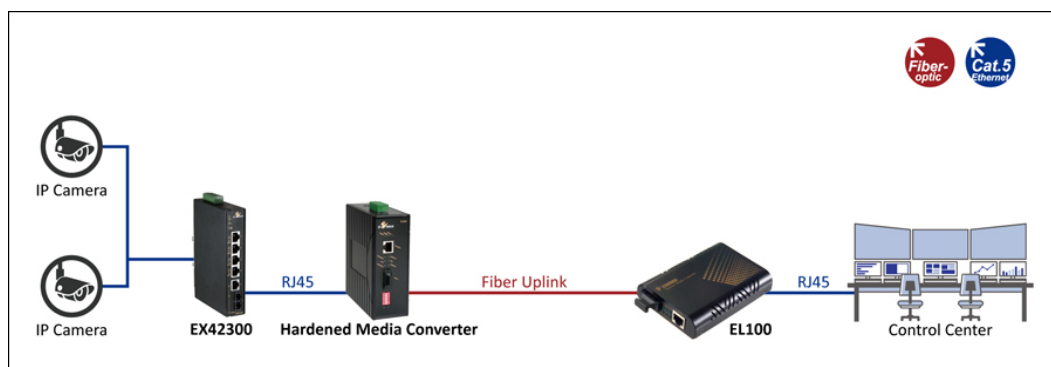
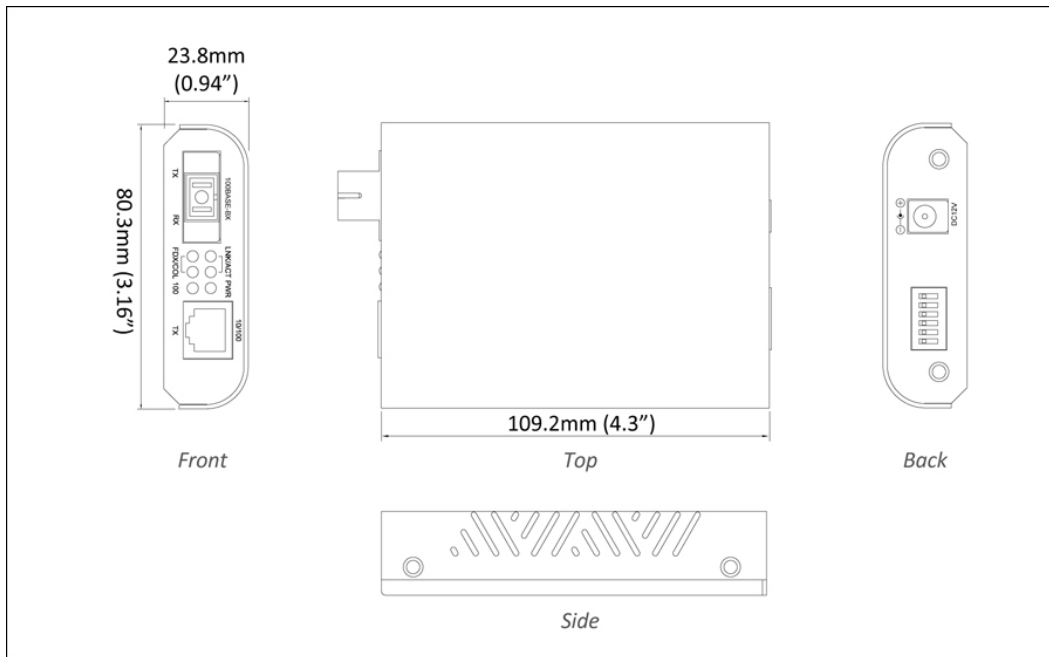### Device

- Media Converter

Power

- 12VDC Power Adapter

Documentation

- Quick Install Guide

Application

Dimensions

23.8mm (0.94")

80.3mm (3.16")

109.2mm (4.3")

Front

Top

Back

Side

Ordering Info

➕ Model

EL100C	10/100BASE-TX to 100BASE-FX Multi Mode (SC) 2Km Media Converter (1310nm, 62.5/125 and 50/125mm)
EL100L	10/100BASE-TX to 100BASE-FX Multi Mode (SFF Dual LC) 2Km Media Converter (1310nm)
EL100T	10/100BASE-TX to 100BASE-FX Multi Mode (ST) 2Km Media Converter (1310nm, 62.5/125 and 50/125mm)
EL100C-20	10/100BASE-TX to 100BASE-FX Single Mode (SC) - 20Km Media Converter (1310nm)
EL100L-20	10/100BASE-TX to 100BASE-FX Single Mode (SFF Dual LC) - 20Km Media Converter (1310nm)
EL100T-20	10/100BASE-TX to 100BASE-FX Single Mode (ST) - 20Km Media Converter (1310nm)
EL100C-40	10/100BASE-TX to 100BASE-FX Single Mode (SC) - 40Km Media Converter (1310nm)

* EMC1600, proprietary 19" chassis system, can house up to 16 x EL100 Series Converters

* EMC1600 Chassis System is available separately.

* More 100FX fiber options are also available upon request.

➕ Accessories

Multiple Channel Chassis	www.etherwan.com/products/media-converters/multiple-channel-media-converters