

# EL100 / EL110 Series

## 10/100BASE-TX to 100BASE-FX Media Converter



## Overview

The EL100 / EL110 Series provide media conversion between 10/100BASE-T(X) and 100BASE-FX Fiber. Easy plug-and-play design facilitates network infrastructure construction. Through DIP switch selection, Link-Fault-Pass-Through (LFPT) function can be active or disabled. The EL100 / EL110 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 / EL110 is the ideal media converter for enterprise environments.

EtherWAN – “When Connectivity is Crucial”.

## Spotlight

- **SC and ST Media Converter**
  - Supports multi-mode and single mode fiber line with SC and ST fiber port
- **DIP Switch Configurable**
  - 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 let network operators be aware of network connection status
  - When fiber link is down, LFPT function will turn down Ethernet port to inform connected device that the link is down and vice versa

# Hardware Specifications

## Technology

### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/FX
- IEEE802.3x full duplex and flow control

### Forward and Filtering Rate

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

### Packet Buffer Memory

- 128K bits

### Processing Type

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

## Power

### Input Voltage

- Input: 12VDC

### Power Consumption

- 1.92W Max. 0.16A @ 12VDC

## Mechanical

### Casing

- Aluminum Case

### Dimensions

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

### Weight

- 150g (0.33lb.)

### Installation

- Wall mounting or use with EMC1600 media converter chassis system

## Interface

### Ethernet Port

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

### LED Indicators

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

## 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

- 5% to 95% (non-condensing)

## Regulatory Approvals

### ISO

- Manufactured in an ISO9001 facility

## Safety

### UL60950-1

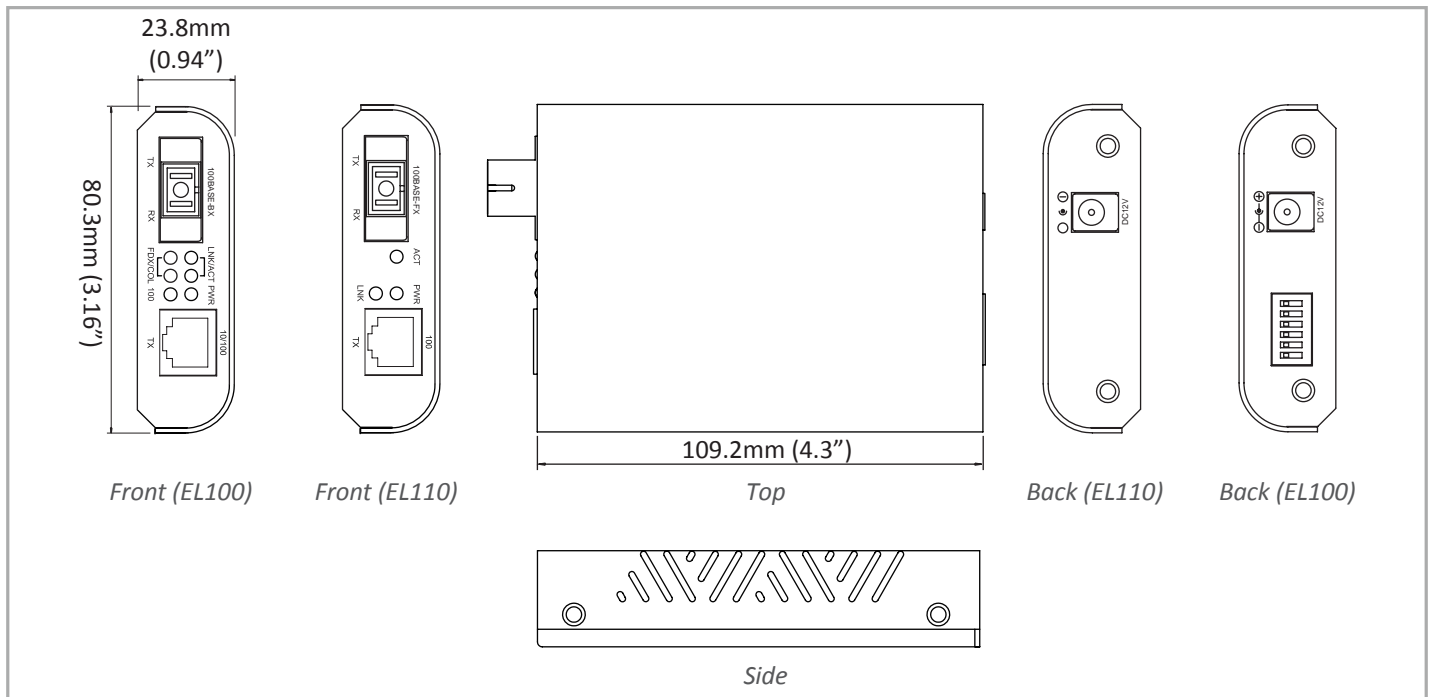
## Emission Compliance

### CE Mark Class A

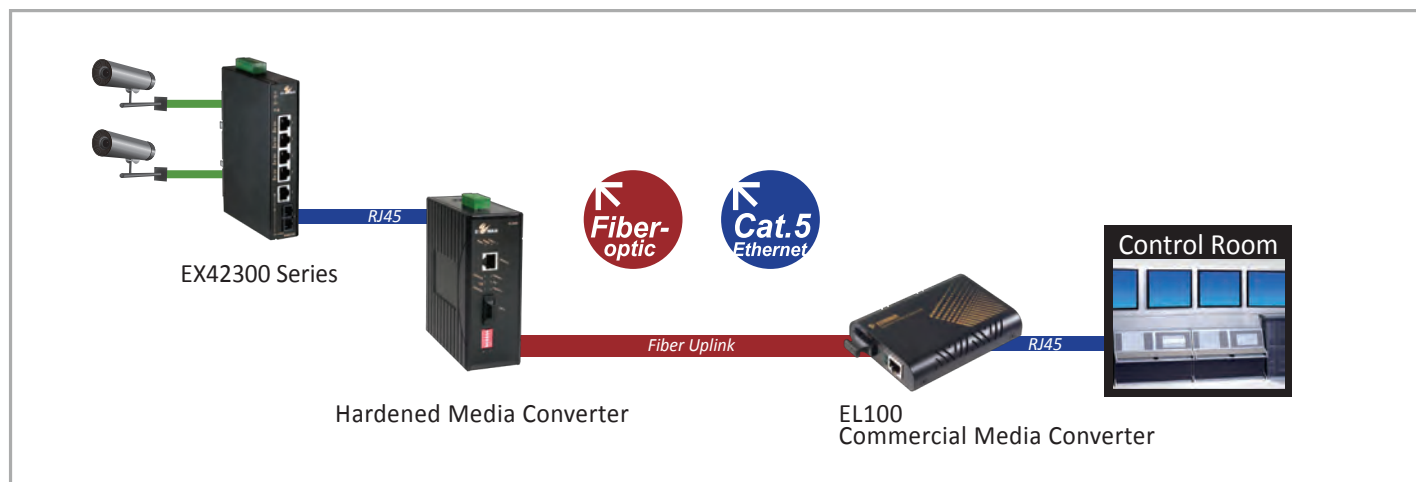
### FCC Part 15B Class A

### VCCI Class A

## Dimensions



## Application Diagram



## Ordering Information

### EL100 Series

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

### EL110 Series

<b>EL110C</b>	100BASE-TX to 100BASE-FX Multi Mode (SC) Media Converter (62.5/125 and 50/125mm)
<b>EL110T</b>	100BASE-TX to 100BASE-FX Multi Mode (ST) Media Converter (62.5/125 and 50/125mm)
<b>EL110C-20</b>	100BASE-TX to 100BASE-FX Single Mode (SC) -20Km Media Converter (1310nm)
<b>EL110T-20</b>	100BASE-TX to 100BASE-FX Single Mode (ST) -20Km Media Converter (1310nm)
<b>EL110C-40</b>	100BASE-TX to 100BASE-FX Single Mode (SC) -40Km Media Converter (1310nm)

#### NOTES :

\*EMC1600, proprietary 19" chassis system, can house up to 16 x EL100/EL110 Series Converters

\*EMC1600 Chassis System is available separately

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