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

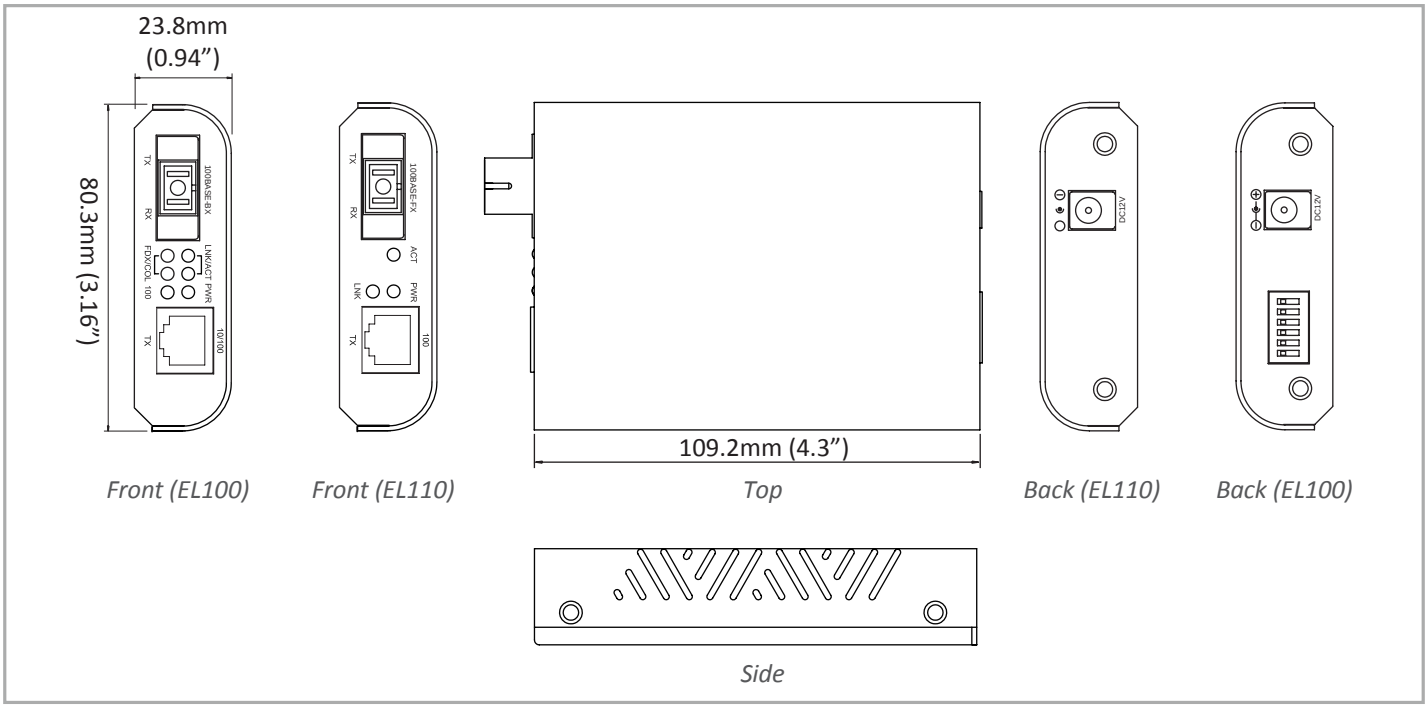
Emission Compliance

CE Mark Class A

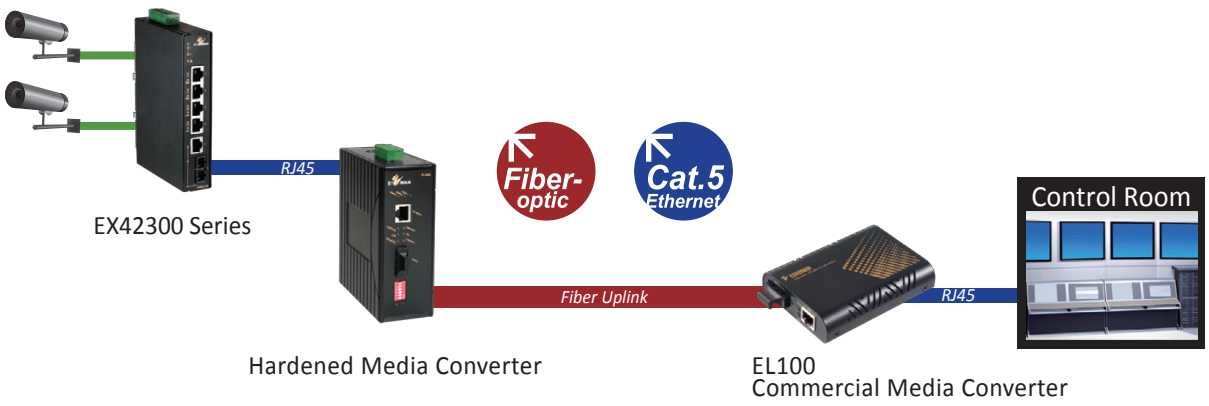
FCC Part 15B Class A

VCCI Class A

Dimensions



Application Diagram



Ordering Information

EL100 Series

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

EL110 Series

EL110C	100BASE-TX to 100BASE-FX Multi Mode (SC) Media Converter
EL110T	100BASE-TX to 100BASE-FX Multi Mode (ST) Media Converter
EL110C-20	100BASE-TX to 100BASE-FX Single Mode (SC) -20Km Media Converter (1310nm)
EL110T-20	100BASE-TX to 100BASE-FX Single Mode (ST) -20Km Media Converter (1310nm)
EL110C-40	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*