

# EL2321 Series

Managed 10/100/1000BASE-TX to 100BASE/1000BASE-X Dual Rate Media Converter



## Overview

The EL2321 Series provides media conversion between "10/100/1000BASE-TX" and "100BASE/1000BASE-SX-LX Fiber or 100/1000BASE-SFP Fiber." The EL2321's fiber design is compatible to 100BASE fiber or 1000BASE fiber transceiver.

The EL2321 managed media converter supports Telnet, SNMP v1/v2, and web browser management enabling value-added connectivity and bandwidth control. Key features include; 802.3ah OAM compliance, VLAN tagging, broadcast storm protection, Far-End-Fault, and Link-Fault-Pass-Through resulting in reliable communications between networks. With link down alarming and a wide range of fiber connectivity options the EL2321 is the ideal media converter for environments where connectivity is variable.

## Spotlight

### • Gigabit Connectivity

- Auto 10/100/1000BASE-TX and 1000BASE-SX/LX/BX Ethernet transmission conversion
- 1000Mbps Full duplex, 10/100Mbps Full/Half duplex
- Fiber interface supports dual rate 100BASE-FX and 1000BASE-SX/LX fiber transmission

### • Managed Functions

- Supports IEEE802.3ah OAM standards
- Supports SNMPv1, SNMPv2
- Supports bandwidth control and VLAN base priority tag

## Software Features

### Management

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- Interface
  - Web Browser
  - SNMP v1/v2c
- Firmware and configuration upgrade and backup via TFTP
- Supports DHCP Server/Client

### Security

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- MAC Address by port security
- Enable/disable port
- Storm control (broadcast and multicast types)
- IEEE802.1x LAN access control

### Quality of Service (QoS)

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- Priority Queues: 4 queues per port
- Traffic classification based on IEEE802.1p CoS, DSCP, WRR (Weighted round robin)
- Rate Limiting (Ingress/Egress)

### Layer 2 Features

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- Auto-negotiation for port speed and duplex mode
- Flow Control
  - IEEE802.3x full duplex mode
  - Back-Pressure half duplex mode
- VLANs
  - Port-based VLANs
  - IEEE802.1Q Tag VLANs (4096 VID)

## Hardware Specifications

### Technology

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#### Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3ab 1000BASE-T
- IEEE802.3z 1000BASE-SX/1000BASE-LX
- IEEE802.3x Full duplex and flow control

#### Forward and Filtering Rate

- 14,880pps for 10Mbps
- 148,810pps for 100Mbps
- 1,488,100pps for 1000Mbps

#### Processing Type

- Store-and-Forward
- Auto Negotiation
- Half duplex back-pressure and IEEE802.3x full-duplex flow control
- Auto-MDI/MDIX

#### Power Input

- Input Voltage: 12VDC

#### Power Consumption

- 3W Max. 0.23A@12VDC

### Mechanical

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#### Casing

- Metal Case
- IP30

#### Dimensions

- 80.3 x 109.2 x 23.8mm (W x D x H)  
(3.16" x 4.3" x 0.94")

#### Weight

- 150g (0.336lbs.)

#### Installation

- Wall mounting

### Interface

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#### Ethernet Port

- 10/100/1000BASE-TX: 1 port
- 100BASE/1000BASE-SX-LX or 100/1000BASE SFP slot: 1 port

#### LED Indicators

- Per Unit: Power Status, OAM loop
- Per Port: TX Speed, Link/Activity, Full-duplex

### Environment

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#### Operating Temperature

- 0 to 50°C (32 to 121°F)

#### Storage Temperature

- -20 to 70°C (-4 to 158°F)

#### Ambient Relative Humidity

- 5% to 95% (non-condensing)

### Regulatory Approvals

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#### ISO

- Manufactured in an ISO 9001 facility

#### Emission Compliances

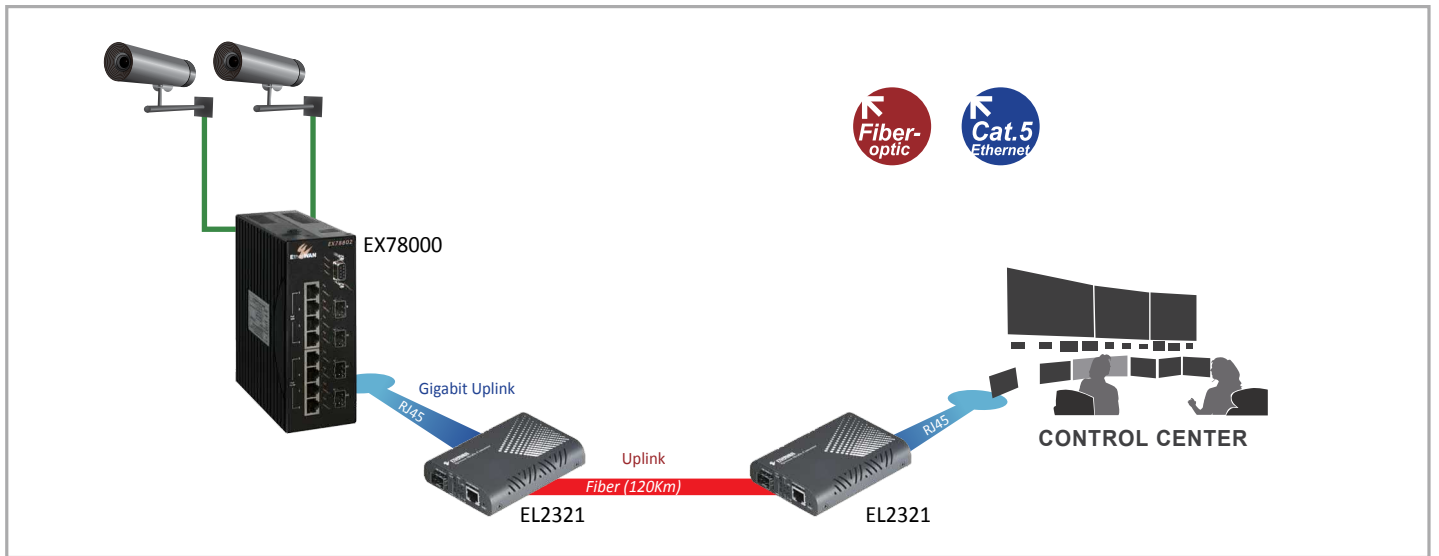
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#### CE Mark Class A

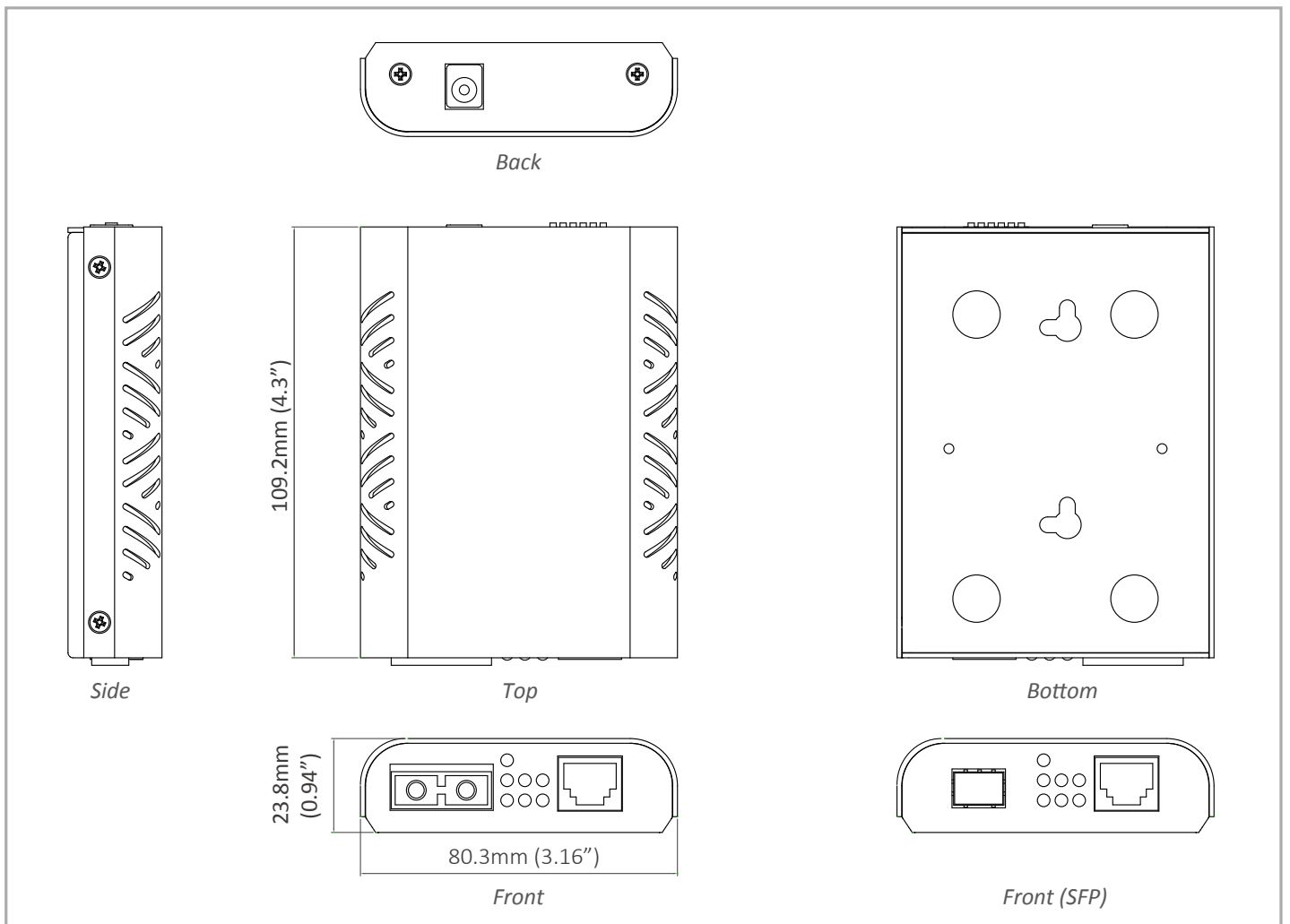
#### FCC Part 15B Class A

#### VCCI Class A

## Application Diagram



## Dimensions



## Ordering Information

### Model

<b>EL2321-X1Z</b>	Managed 10/100/1000BASE-TX to 100BASE/1000BASE-X Dual Rate Media Converter
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### Gigabit Port Options (X)

<b>3</b>	1000BASE-SX (SC) - 550m (850nm)
<b>4</b>	1000BASE-SX (SC) - 2Km (1310nm)
<b>5</b>	1000BASE-SX (ST) - 550Km (850nm)
<b>A</b>	1000BASE-LX (SC) - 10Km (1310nm)
<b>B</b>	1000BASE-LX (SC) - 20Km (1310nm)
<b>E</b>	1000BASE-LX (SC) - 40Km (1310nm)
<b>R</b>	1000BASE-BX (SC) WDM –TX:1310nm/RX:1550nm - 20Km
<b>S</b>	1000BASE-BX (SC) WDM –TX:1550nm/RX:1310nm - 20Km
<b>V</b>	100/1000BASE SFP

### Power Adapter Options (Z)

<b>A</b>	with external power adapter for AU
<b>E</b>	with external power adapter for EU
<b>J</b>	with external power adapter for JP
<b>K</b>	with external power adapter for UK
<b>U</b>	with external power adapter for USA
<b>3C</b>	with external power adapter for China