

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

• Supports Dying Gasp

- Sends SNMP trap for device failure report

Software Features

Management

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

Security

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

Quality of Service (QoS)

- 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

- 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)
 - GVRP (GARP VLAN Registration Protocol)
 - GMRP (GARP Multicast Registration Protocol)
- IGMP Snooping
 - IGMP snooping v1/v2/v3

Hardware Specifications

Technology

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

Casing

- Metal Case
- IP30

Dimensions

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

Weight

- 150g (0.336lbs.)

Installation

- Wall mounting

Interface

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

Operating Temperature

- 0°C to 50°C (32°F to 121°F)

Storage Temperature

- -20°C to 70°C (-4°F to 158°F)

Ambient Relative Humidity

- 5% to 95% (non-condensing)

Regulatory Approvals

ISO

- Manufactured in an ISO9001 facility

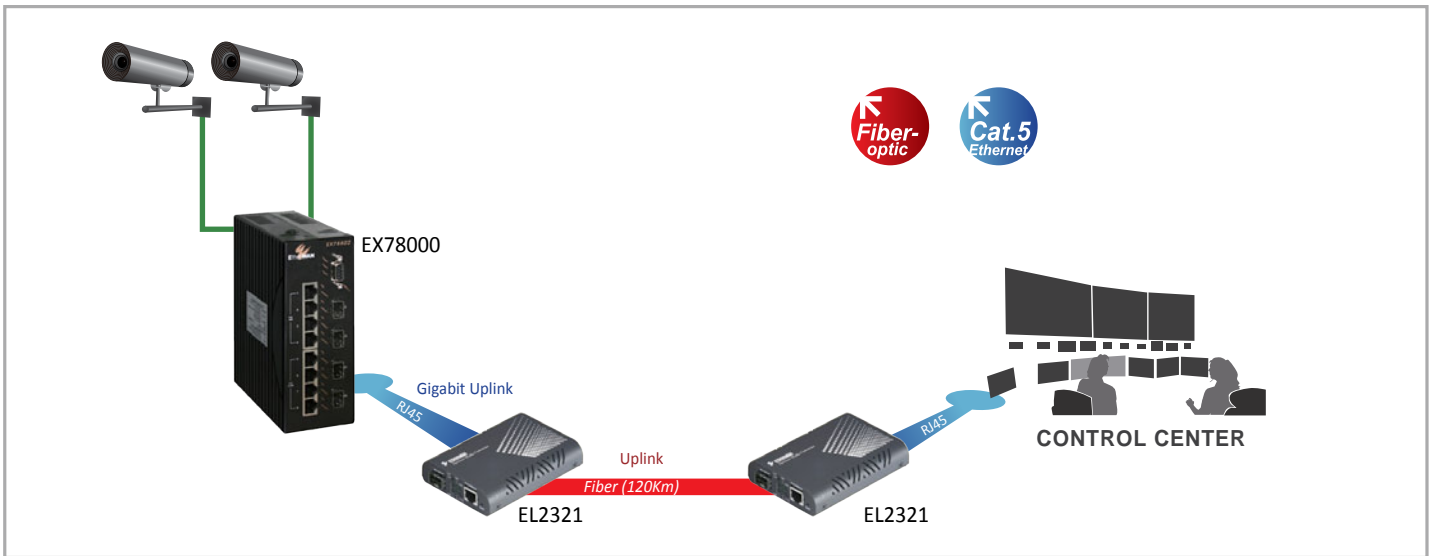
Emission Compliances

CE Mark Class A

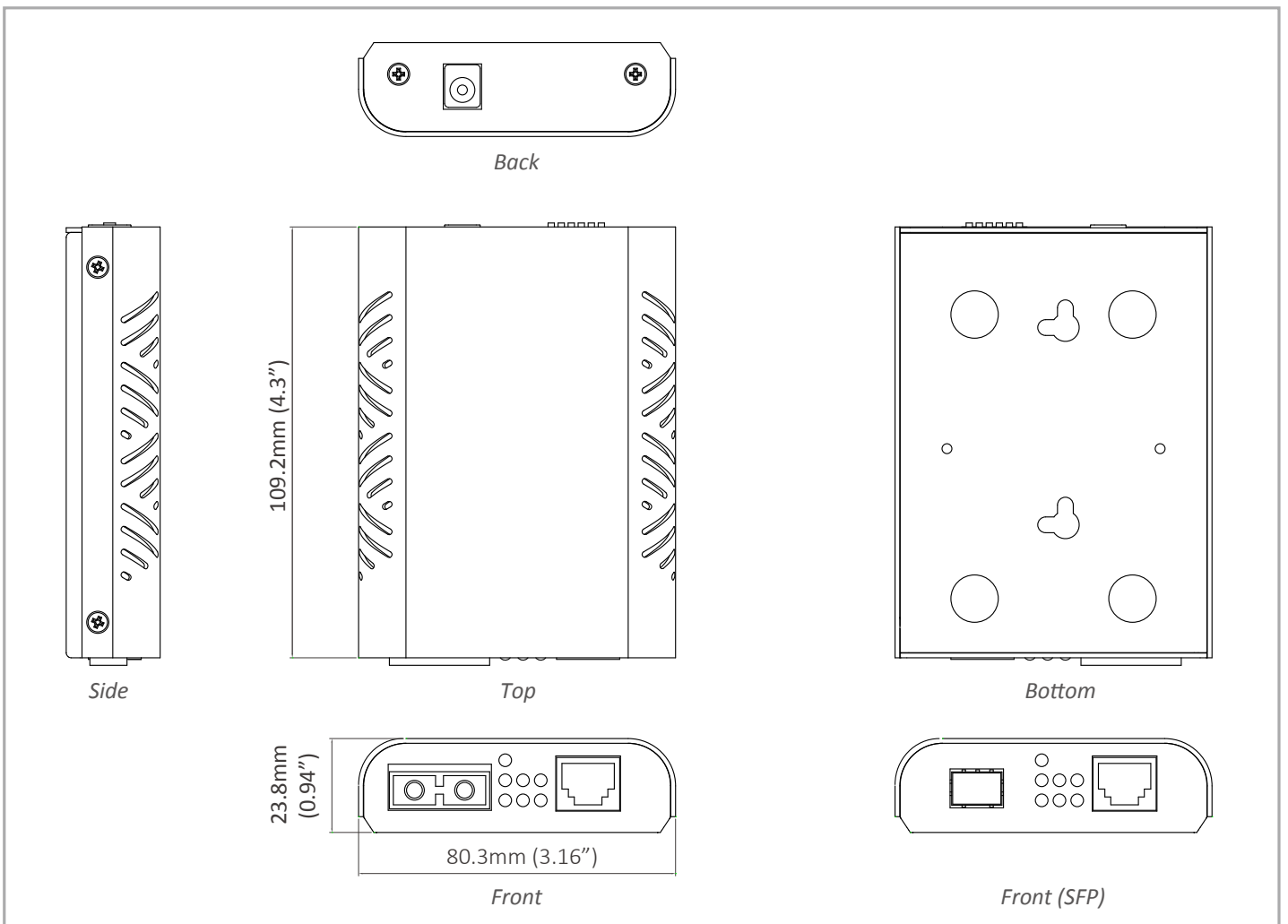
FCC Part 15B Class A

VCCI Class A

Application Diagram



Dimensions



Ordering Information

Model

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

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

Power Adapter Options (Z)

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