

EL1032 Series

10/100Base-TX to 100Base-FX Industrial Unmanaged Media Converter with PoE/PSE



Overview

Etherwan EL1032 is positioned as a Fast Ethernet Media Converter to meet fiber networking application. EL1032 Series is one of the most complete solutions in media conversion and are available in all types of fiber connectors. The RJ-45 port on this unit is dual speed 10/100Mbps with half/full duplex auto sensing. Better than a regular converter, EL1032 has switching capabilities that are able to filter traffic and record MAC addresses. Moreover, it offers a PoE technology to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. It can be used in some appliances where it would be inconvenient or infeasible to supply power separately.

Features

- ▶ DIP switch configuration for "Link-Fault-Pass Through" speed, duplex mode
- ▶ 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- ▶ Full wire-speed forwarding rate
- ▶ 1K MAC address
- ▶ 288Kb buffer memory
- ▶ -20°C to 60°C (-4°F to 140°F) operating temperature
- ▶ Supports DIN-Rail, Wall Mounting installation
- ▶ Offer 802.3af PoE technology
- ▶ Aluminum case

Specifications

Technology

Standards:

- IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE802.3af PoE

Forward and Filtering Rate:

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

Packet Buffer Memory:

- 288K bytes

Processing Type:

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

Address Table Size:

- 1K MAC address

Latency:

- Less than 128.9μs

Fiber Port:

Power

Input:

- Input Voltage: 48VDC to 65VDC

Power Consumption:

- 72mA @ 48V, 3.5W Max.

Mechanical

Casing:

- Aluminum case

Dimensions:

- 70mm (W) x 110mm (D) x 30mm (H) 3.36 (3.36" (W) x 4.29" (D) x 1.17" (H))

Weight:

- 0.25Kg (0.55lb.)

Installation:

- DIN-Rail, Wall Mounting

Environment

Operating Temperature:

- -20°C to 60°C (-4°F to 140°F)

Storage Temperature:

- -40°C to 85°C (-40°F to 185°F)

Ambient Relative Humidity:

- 10% to 95% (non-condensing)

Interface

LED Indicators:

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

Designation	Typical Distance*	Nominal Wavelength	Cable Type	Connector	Optical Budget
100Base-FX	2 km	1310 nm	62.5/125 MM	ST	12 dB
100Base-FX	2 km	1310 nm	62.5/125 MM	SC	12 dB
100Base-FX	20 km	1310 nm	10/125 SM	SC	17 dB
100Base-FX	20 km	1310 nm	10/125 SM	ST	19 dB
100Base-FX	40 km	1310 nm	10/125 SM	SC	25 dB

