

EL2242

Hardened PoE 10/100/1000BASE-T to 100/1000BASE
Dual Rate Media Converter



Product Highlights

➔ Power over Ethernet

- Supports IEEE 802.3af/at PoE standard

➔ Dual-Rate Fiber Optic Port

- SFP fiber optic port supports 100/1000BASE-X

➔ Wide Operating Temperature

- Fanless and wide operating temperature range -40 to 75°C (-40 to 167°F)

➔ Support

- Limited Lifetime Warranty and complimentary technical support

Overview

The EL2242 provides media conversion between 10/100/1000BASE-T(X) and 100/1000 BASE SFP fiber. Through DIP switch selection, Link-Fault-Pass-Through (LFPT) function can be enabled or disabled. EL2242 supports the IEEE 802.3af/at PoE standard and can transmit power and data over one STP cable.

The EL2242's hardened design features high shock and vibration, electrical noise immunity and a wide operating temperature range from -40 to 75°C. EL2242 is the ideal media converter for harsh environments.

Ordering Information

Model

EL2242-X1B	10/100/1000BASE-T to 100/1000BASE Dual Rate Hardened PoE Media Converter
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* DIN-Rail mounting kit included.

1000BASE-X Fiber Options (X)

V	100/1000BASE-X SFP
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Optional Accessories

EDR-75-48	75W/1.6A DIN-Rail 48VDC Industrial Power Supply
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Hardware Specifications

Interface +	
Ethernet Port	10/100/1000BASE-TX: 1 port 100/1000BASE-SFP: 1 port
LED Indicators	Per Unit: Power 1, Power 2, Alarm Per 10/100/1000BASE-TX Port: 1000, 10/100, Link/Activity Per 100/1000BASE-FX Port: 1000, 100, Link/Activity PoE: On/Off LFPT: On/Off
Technology +	
Standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3z 1000BASE-SX/1000BASE-LX IEEE 802.3ab 1000BASE-T IEEE 802.3at PoE IEEE 802.3af PoE
Forward and Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps 1,488,100pps for 1000Mbps
Packet Buffer Memory	256K bits
Processing Type	Cut-through mode Half-duplex back-pressure and IEEE 802.3x full-duplex flow control Auto-negotiation Auto MDI/MDIX
Power +	
Input	48-57VDC for unit and PoE system (50-57VDC is recommend for PoE+ device)
Power Consumption	4.56W max. 0.38A@12VDC, 0.07A@48VDC
Protection	Over Current Protection Reverse Polarity Protection
Physical +	
Casing Material	Aluminum
Dimensions	42 x 90 x 100mm (W x D x H) 1.65" x 3.54" x 3.94"
Weight	0.38kg (0.83lbs)
Installation Type	DIN-rail mounting (Top hat type 35mm)

Environmental +	
Operating Temp.	-40 to 75°C (-40 to 167°F)
Storage Temp.	-40 to 85°C (-40 to 185°F)
Relative Humidity	5% to 95% (non-condensing)
Regulatory +	
ISO	Manufactured in ISO-9001 facility
EMI	FCC Part 15B Class A VCCI Class A EN 61000-6-4 EN 61000-3-3 EN 61000-3-2
EMS	EN 61000-6-2 EN 61000-4-2 (ESD) EN 61000-4-3 (Radiated RFI) EN 61000-4-4 (Burst) EN 61000-4-5 (Surge) EN 61000-4-6 (Induced RFI) EN 61000-4-8 (Magnetic Field)
Safety	UL 60950-1 EN 60950-1 IEC 60950-1
Vibration	IEC 60068-2-6 Fc
Shock	IEC 60068-2-27 Ea
Free Fall w/ Package	FED STD 101C Method 5007.1
Warranty +	
Length	Limited Lifetime
Details	www.etherwan.com/support/warranty-policy
What's Included +	
Device	Media Converter
Documentation	Quick Install Guide

Dimensions

