

EL1033

Industrial 10/100BASE-TX to 100BASE-FX Media Converter with PoE/PD Fast Ethernet



Overview





The EL1033 is positioned as a Fast Ethernet Media Converter to meet the requirements of fibre networking applications. The EL1033 Series is one of the most complete solutions in media conversion and is available with a selection of fibre connector options. The RJ-45 port on this unit is dual speed 10/100Mbps with half/full duplex auto sensing. Better than a regular converter, the EL1033 has switching capabilities that are able to filter traffic and record MAC addresses. The 1033 uses PoE technology to receive electrical power, along with data, from PoE PSE device over standard twisted-pair cable in an Ethernet network. It can be used in some applications where it would be inconvenient or not possible to supply power separately

Features

- Complied with 802.3af PoE/PD technology
- 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 rat

- 2.25M bits buffer memory
- ➤ -10°C to 60°C (14°F to 140°F) operating temperature
- Aluminium case
- Supports DIN-Rail, Panel or Wall Mounting installation

Ordering Information

EL1033-X0Z Industrial 10/100BASE-TX to 100BASE-FX Media converter with PoE/PD

100FX Fibre Options:

- (X) = 1: Multi Mode (SC)
 - 2: Multi Mode (ST)
 - A: Single Mode (SC) -20Km
 - B: Single Mode (SC) -40Km
 - H: Single Mode (ST) -20Km
 - 6: Multi Mode (SC) WDM -TX: 1310nm/RX: 1550nm -2Km
 - 7: Multi Mode (SC) WDM -TX: 1550nm/RX: 1310nm -2Km
 - *More 100FX Fibre Options also available upon request
- 8: Multi Mode (SC) WDM -TX: 1310nm/RX: 1550nm -5Km
- 9: Multi Mode (SC) WDM -TX: 1550nm/RX: 1310nm -5Km
- P: Single Mode (SC) WDM -TX: 1310nm/RX: 1550nm -20Km
- Q: Single Mode (SC) WDM -TX: 1550nm/RX: 1310nm -20Km
- R: Single Mode (SC) WDM -TX: 1310nm/RX: 1550nm -40Km
- S: Single Mode (SC) WDM -TX: 1550nm/RX: 1310nm -40Km

Power Input Interface:

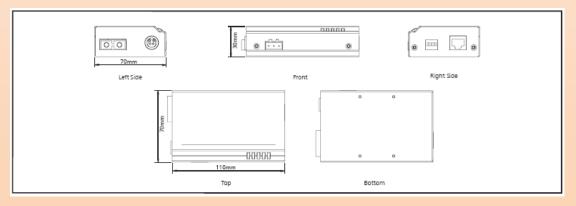
(Z) = B: Terminal Block & DC Jack

Power Supply: (Optional)

*Option A - The Terminal Block type external power supply are not included. Please order the following part numbers, as required: DR-75-48
**Option B - The external power adapter and power cord are not included. Please order the following part numbers, recommend for indoor use,

as required: AS-120P-48

Diagrams





































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Industrial 10/100BASE-TX to 100BASE-FX Media Converter with PoE/PD **Fast Ethernet**

Specifications

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:

2.25M bits

Processing Type

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

Power

Input

Input Voltage: 48VDC

Power Consumptio

3.6W Max. 0.075A@48VDC

Overload Current Protection:

Present

Reverse Polarity Protection:

Present

Mechanical

Aluminium case

70mm (W) x 110mm (D) x 30mm (H) (2.76" (W) x 4.33" (D) x 1.18" (H))

0.25Kg (0.55lb.)

Installatio

DIN-Rail (Top hat type 35mm), Panel, Wall Mounting

Interface

10/100BASE-TX: 1 port

100BASE-FX: 1 port

LED Indicato

- Per Unit: Power Status (Power)
- Per Port: 10/100TX: Link/Activity, Full-duplex/Collision, Speed100FX: Link/Activity
- PoE: PSE connect/PSE disconnect

Environment

Operating Temperature

- -10°C to 60°C (14°F to 140°F)
- Test @ -20°C to 70°C (-4°F to 158°F)

Storage Temperatur

-40°C to 85°C (-40°F to 185°F)

Ambient Relative Humidity

5% to 95% (non-condensing)

Regulatory Approvals:

Manufactured in an ISO9001 facility

UL508 •

EMI:

- FCC Part 15, Class A •
- VCCI, Class A
- EN61000-6-4
- EN55022
- EN61000-3-2
- EN61000-3-3

EMS:

- EN61000-6-2
- EN61000-4-2 (ESD Standards) Contact: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B
- EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A
- EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B
 - EN61000-4-5 (Surge Standards)

Signal Ports: + / - 1KV; Line-to-Line; Criteria B D.C. Power Ports: + / - 0.5KV; Line-to-earth; Criteria B

EN61000-4-6 (Induced RFI Standards)

Signal Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15~80MHz; 80% AM Criteria A

EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A

Environmental Test Co

- IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10~150 KHz, Amplitude 0.35mm (Operation/Storage/Transport)
- IEC60068-2-27 Ea (Shock)

25g @ 11ms (Half-Sine Shock Pulse; Operation)

50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)

IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)

Power inputs

	Power Input Assignment										
	Power 1	+	١	12	~48VDC						
l	r ower r	-	-		wer Ground						
I	Power 2	+	+ 12		~48VDC						
l	r oner z	_	-]	Po	wer Ground		Terminal Block				
	+			Ea	irth Ground						
	ħ			Re	Relay						
l	Power 3			12	VDC		DC Jack				
l	DIP Switch Assignment										
	DIP-ON 123456 1000000	Ι	LFPT		тх			FX	LINK DOWN		
		֓֓֞֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֓֓֓֡֓֓֡֓	Enable		F.Mode	10M	H. Duplex	H.Duplex	ON		
	*	6	Disable		Auto Mode	100M	F. Duplex	F.Duplex	OFF		

































