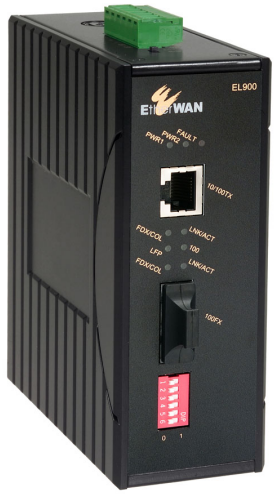
EL900 Series

Hardened 10/100BASE-TX to 100BASE-FX Media Converter



Overview

The EL900 Series provides media conversion between 10/100BASE-T and 100BASE-SX-LX Fiber. Built specifically for mission-critical applications in harsh environments, the EL900's hardened design features high shock & vibration resistance, electrical noise immunity, wide operating temperature range from -40°C to 75°C, and ruggedized aluminum housing. With triple power inputs, link down alarming, Link-Fault-Pass-Through and a wide range of fiber connectivity options, the EL900 is the ideal media converter for harsh environments.

EtherWAN — "**When Connectivity is Crucial.**"

Spotlight

ISA 12.12.01 Certification

Highly qualified for explosive environmental applications and certified by UL with ISA12.12.01 Class I, Division 2 classified for use in hazardous locations

Wide Operating Temperature

-40°C to 75°C wide operating temperature range design is suitable for installation in outdoor cabinet

Link-Fault-Pass-Through (LFPT)

LFPT function let network operators be aware of network connection status

When fiber link is down, LFPT function will turn down Ethernet port to inform connected device that the link is down and vise versa

Specifications

Technology

Standards
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX and 100BASE-FX
IEEE 802.3x Full duplex and flow control

Forward and Filtering Rate
14,880pps for 10Mbps
148,810pps for 100Mbps

Packet Buffer Memory
128K bits

Processing Type
Store-and-forward
Auto Negotiation
Half-Duplex back-pressure and IEEE 802.3x Full-Duplex flow control
Auto MDI/MDIX

Interface

Ethernet Ports
10/100BASE-TX: 1 ports
100BASE-FX: 1 ports

LED Indicators
Per Unit: Power1, Power2, Alarm
Per 10/100BASE-TX port: Link/Activity, 100, Full-Duplex/Collision, LFPT
Per 100BASE-FX port: Link/Activity, Full-Duplex/Collision

Relay Contact
Dry contact with current 0.6A/30VDC

Environment

Operating Temperature
-40 to 75°C (-40 to 167°F)

Storage Temperature
-40 to 85°C (-40 to 185°F)

Ambient Relative Humidity
5% to 95% (non-condensing)

Power

Input
10-48VDC (DC Terminal Block)
12VDC (DC Jack) or 24VAC, 0.185A (AC Terminal Block)

Power Consumption
4.32W Max
0.36A@12VDC
0.09A@48VDC

Protection
Overload Current Protection
Reverse Polarity Protection

Mechanical

Casing
Aluminum Case
IP30

Dimensions
50 x 110 x 135mm (W x D x H)
(1.97" x 4.33" x 5.31")

Weight
0.8Kg (1.76lbs.)

Installation
DIN-Rail (top hat type 35mm) or panel mounting

Regulatory Approvals

ISO
Manufactured in an ISO 9001 facility

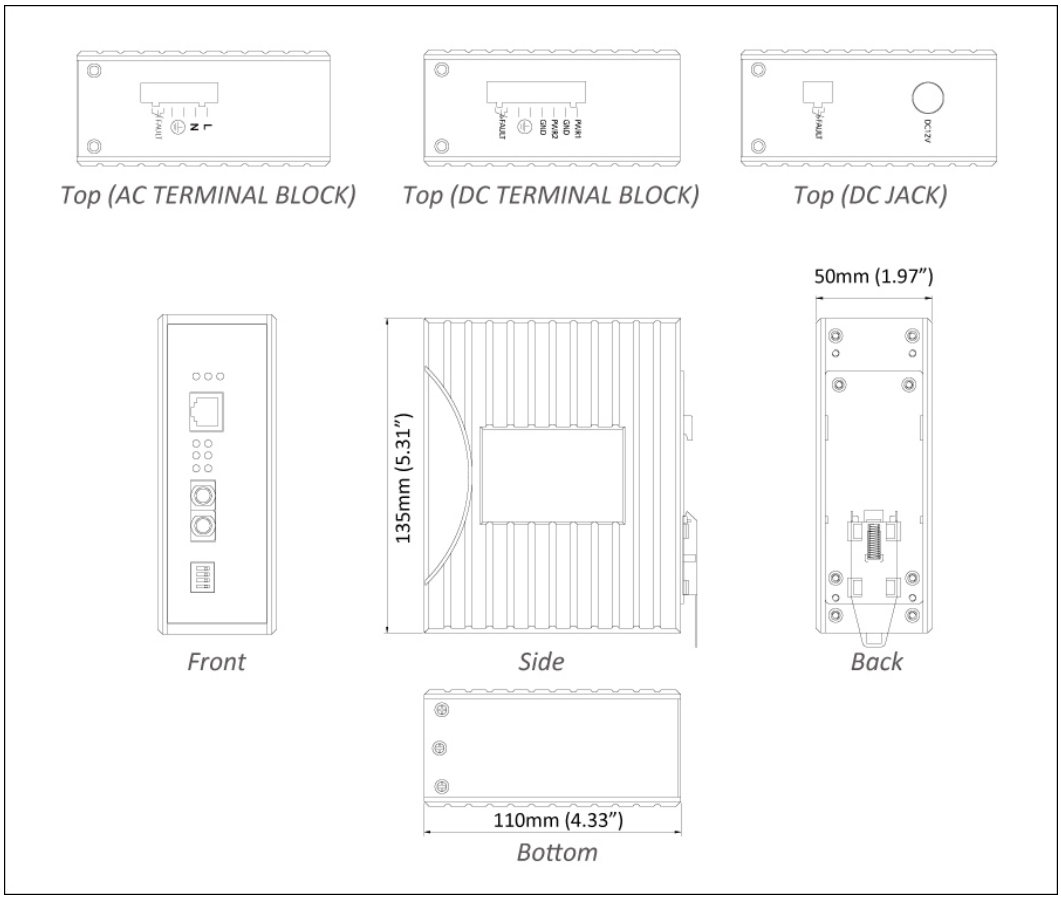
Safety
ISA 12.12.01
• Class 1, Division 2 group A, B, C & D for hazardous locations

EMC
FCC Part 15B Class A
VCCI Class A
EN 55022
EN 61000-3-2
EN 61000-3-3
EN 61000-6-3

EMS
EN 61000-6-2
• EN 61000-4-2 (ESD Standards)
• EN 61000-4-3 (Radiated FRI Standards)
• EN 61000-4-4 (Burst Standards)
• EN 61000-4-5 (Surge Standards)
• EN 61000-4-6 (Induced RFI Standards)
• EN 61000-4-8 (Magnetic Field Standards)

Environmental Test Compliances
IEC 60068-2-6 Fc (Vibration)
IEC 60068-2-27 Ea (Shock)
FED STD 101C Method 5007.1 (Free fall w/ package)
IEC 60068-2-27 Ea (Shock)
NEMA TS1/2
* Environmental requirements for traffic control equipment

Dimensions


Top (AC TERMINAL BLOCK)
Top (DC TERMINAL BLOCK)
Top (DC JACK)
50mm (1.97")
135mm (5.31")
Front
Side
Back
110mm (4.33")
Bottom

Ordering Info

Model

EL900-A-Y-1-P	10/100BASE-TX to 100BASE-FX Hardened Media Converter

* DIN-Rail mounting kit included.

100FX Fiber Options (Y)

B	Multi Mode (SC) - 2Km (1310nm)
C	Multi Mode (ST) - 2Km (1310nm)
D	Multi Mode (SC) WDM-TX: 1310nm/RX: 1550nm-2Km
E	Multi Mode (SC) WDM-TX: 1550nm/RX: 1310nm-2Km
F	Multi Mode (SC) WDM-TX: 1310nm/RX: 1550nm-5Km
G	Multi Mode (SC) WDM-TX: 1550nm/RX: 1310nm-5Km
Q	Single Mode (SC) WDM-TX: 1310nm/RX: 1550nm-20Km
R	Single Mode (SC) WDM-TX: 1550nm/RX: 1310nm-20Km
S	Single Mode (SC) WDM-TX: 1310nm/RX: 1550nm-40Km
T	Single Mode (SC) WDM-TX: 1550nm/RX: 1310nm-40Km
M	Single Mode (ST) - 20Km (1310nm)
N	Single Mode (SC) - 20Km (1310nm)
O	Single Mode (SC) - 40Km (1310nm)

Power Connector Options (P)

A	DC Terminal Block
B	DC Jack
C	24VAC Terminal Block

Optional Accessories

KP-AA96-480	Panel mounting Kit
HDR-30-24	30W/1.5A DIN-Rail 24VDC Industrial Power Supply
HDR-60-24	60W/2.5A DIN-Rail 24VDC Industrial Power Supply
EDR-75-24	75W/3.2A DIN-Rail 24VDC Industrial Power Supply
EX41-145046-X	Power Supply 45W 12VDC with Open Wire (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA
EX41-145044-X	Power Supply 45W 12VDC with Latch (X) = 1: US, 2: EU, 3: UK, 4: AU, 5: JP, 6: SA