

EL900 Series

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



ITS



ISA12.12.01



Extended Temperature

Value

- Highly qualified for explosive environmental 10/100BASE Ethernet applications and certified by UL with ISA12.12.01 Class I, Division 2 Classified for use in hazardous locations specifications

Features

- Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- ISA 12.12.01 (UL1604) Class I, Division 2 Classified for use in hazardous locations (Applicable to versions with Terminal Block power option)
- DIP switch configuration for "Link-Fault-Pass-Through," link down alarm, speed, duplex mode
- 768K bits buffer memory
- 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- Alarms for power and port link failure by relay output
- 40°C to +75°C (-40°F to 167°F) operating temperature range
- Hardened aluminum case
- Supports DIN-Rail, Panel or Rack Mounting installation

Ordering Information

EL900-X-Y-I-P Hardened 10/100BASE-TX to 100BASE-FX Media Converter

10/100TX Options :

(X) = A : 10/100BASE-TX (for Port 1 only)

100FX Fiber Options :

(Y) = B : Multi Mode (SC)
 C : Multi Mode (ST)
 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

*More 100FX Fiber options also available upon request

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
 N : Single Mode (SC) - 20Km
 O : Single Mode (SC) - 40Km

Installation Type :

(I) = 1 : DIN-Rail (mounting kit is included)
 Optional Panel mount kit, part number: KP-AA96-480



Power Connector Options :

(P) = A : Terminal Block* / B : DC Jack**

*Option A - The Terminal Block type external power supply are not included. Please order the following part numbers:
 DR-30-24, DR-60-24, DR-75-24, DR-120-24 or 41-136046-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

**Option B - The external power adapter and power cord are not included. Please order the following part numbers:
 41-136044-X (X)=1: US, 2: EU, 3: UK, 4: AU, 5: JP

Specifications

Technology	
Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/100Base-FX, IEEE802.3x
Forward and Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps
Packet Buffer Memory	768K bits
Processing Type	Store-and-Forward
flow control	Half-duplex back-pressure and IEEE802.3x full-duplex
Power	
Input	Input Voltage: 10 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	4.32W MAX. 0.36A @ 12VDC, 0.09A @ 48VDC
Overload Current Protection	Present
Reverse Polarity Protection	Present
Mechanical	
Casing	Aluminum case IP30
Dimensions	50mm (W) x 110mm (D) x 135mm (H) (1.97" (W) x 4.33" (D) x 5.31" (H))
Weight	0.8Kg (1.76lbs.)
Installation	DIN-Rail (Top hat type 35mm), Panel, Rack Mounting
Interface	
Ethernet Port	10/100BASE-TX: 1 port 100BASE-FX: 1 port
LED Indicators	Per Unit: Power Status (Power 1, Power 2, Fault), Link-Fault-Pass-Through Per Port: 10/100TX: Link/Activity, Full-duplex/Collision, Speed 100FX: Link/Activity, Full-duplex/Collision
Relay Contact	Relay contact rating with current 1A @ 30VDC, 0.5A @ 120VAC
Environment	
Operating Temperature	-40°C to +75°C (-40°F to 167°F)
Storage Temperature	Tested @ -40°C to +85°C (-40°F to 185°F)
Ambient Relative Humidity	5% to 95% (non-condensing)

Regulatory Approvals

ISO	Manufactured in an ISO9001 facility
Safety	Hazardous locations: Class 1, Division 2 group A,B,C&D UL60950-1, EN60950-1, IEC60950-1
EMI	*FCC Part 15, Class A *EN61000-6-3 - 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 Compliance	*IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, 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.) NEMA TS1/2 Environmental requirements for traffic control equipment

Dimensions

