



# 10/100/1000Base-TX to Gigabit SFP Hardened Media Converter

EIR-G-SFP-T



## PRODUCT FEATURES

- Complies with NEMA TS1 & TS2 environmental requirements for traffic control equipment
- Complies with IEC61000-6-2 EMC generic standard immunity for Industrial environment
- DIP switch configuration for “Link-Fault-Pass-Through”, link down alarm
- Fiber/auto force mode
- 1000Mbps-Full-duplex, Auto-Negotiation, Auto-MDI/MDIX
- SFP socket for Gigabit fiber optic expansion
- Full wire-speed forwarding rate
- Alarms for power and port link failure by relay output
- Redundant power inputs with terminal block and DC Jack
- -40°C to 75°C (-40°F to 167°F) operating temperature range
- Hardened aluminum case
- Supports DIN-Rail or Panel Mounting installation

The EIR-G-SFP-T, Gigabit Ethernet media converters are designed to operate in harsh environments. The EIR-G-SFP-T functions at temperatures ranging from -40°C to 75°C (-40°F to 167°F) and is tested for functional operation @ -40°C to 85°C (-40°F to 185°F). Whether on the factory floor or the street corner, the EIR-G-SFP-T will provide flawless communications when you need it most. EIR-G-SFP-T offers 1000Base SFP socket to support multi-mode/single-mode fiber optics. The RJ-45 port on this unit provides Auto-MDIX and auto-negotiation. The link-fault-pass-through feature allows the network management agent on adjacent equipment to react to a broken link. Flexibility is the main feature of the EIR-G-SFP-T, it may be DIN rail or panel mounted, and comes with power options to match the applications that require a tough, environmentally hardened, Gigabit Ethernet media converter.

## ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
EIR-G-SFP-T	Hardened Media Converter 1000Base-T to Gigabit SFP

## ACCESSORIES

- SFP-1000LX-S-20KM-T - SFP Module, 1000Base-Lx, SM 20Km, LC Connector, Wt
- SFP-1000LX-S-10KM-T - SFP Module, 1000Base-Lx, SM 10Km
- SFP-1000SX-M-550M-T - SFP Module, 1000Base-Sx, MM 550M, LC Connector, Wt
- C5UMB3FBG - 3 ft - Beige - Category 5e UTP Patch Cord Assemblies
- MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power

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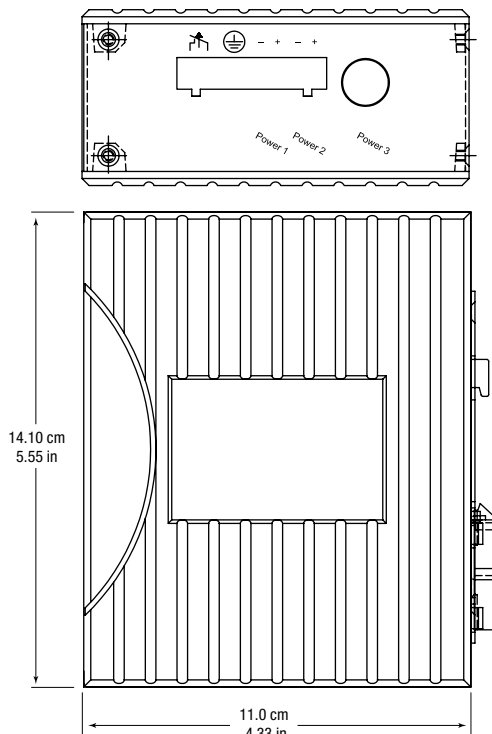


## SPECIFICATIONS

ETHERNET TECHNOLOGY	
Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/1000Base-LX IEEE802.3x
Forward & Filtering Rate	1,488,100pps for 1000Mbps
INTERFACE	
Ethernet Ports	1 - 10/100/1000Base-TX 1 - Gigabit SFP Per Unit: Power Status (Power1, Power2, Power3, Fault), LFPT
LED Indicators	Per Port: 10/100/1000TX: Link/Activity, Speed, Full-duplex/Collision Gigabit SFP: Link/Activity
Alarm Contact	One relay output with current 1A @ 30VDC, 0.5A@120VAC
MECHANICAL	
Enclosure	Aluminum case, IP30
Dimensions	5.00 cm x 11.0 cm x 14.10 cm (1.97 x 4.33 x 5.55 inches)
Weight	0.8Kg (1.76lbs.)
Installation	DIN-Rail (Top hat type 35mm), Rack Mounting (Optional)
Operating Temperature	-40°C to 75°C (-40°F to 167°F) Tested @ -40°C to 85°C (-40°F to 185°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	5% to 95% (non-condensing)
MTBF	348,518 Hours
MTBF Calc. Method	Parts Count Reliability Prediction

## MECHANICAL DIAGRAM

(dimensions in inches & millimeters)



POWER	
Input Voltage	Dual 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	10.56W, 0.88A @ 12VDC, 0.44A @ 24VDC, 0.22A @ 48VDC
Overload Current Protection	Present
Reverse Polarity Protection	Present
REGULATORY APPROVALS	
Safety	EN60950-1, IEC60950-1 FCC Part 15, Class A
EMI	VCCI, Class A EN61000-6-3: EN55022, EN61000-3-2, EN61000-3-3 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 @ 10~150KHz, 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	NEMA TS1/2 Environmental requirements for Traffic control equipment

