



IEC-2002 10/100/1000 Industrial Media Converter, SC MM 2KM, -40 to 75C

Overview

LevelOne IEC-2002 is an industrial Gigabit Ethernet media converter with a rugged aluminium case which providing superb heat dissipation. This converter is designed to be mounted on an industrial standard DIN-rail, plus the clearly visible status LEDs provide simple monitoring of port link activity. It also features Link Fault Pass Through in order to alert remote location when link status changes.

Safety

Complies with NEMA (National Manufacturers Association) TS1 & TS2 Environmental certified for the Traffic Control Equipment that withstand extreme temperatures, operating voltage and humidity fluctuation, vibration and shock commonly experienced in severe outdoor environments.

Fault Detection

Relay contact sends alert signal when the power failed or a port link disconnected, therefore the system operator can respond quickly. This relay contact can be easily configured with a simple DIP switch.

High Reliability

All components are built to withstand harsh environment applications without compromise where humidity, temperature variation and even shock vibration are concerns, including Electric & Utility, Critical Infrastructure, Transportation and Surveillance Security. This device operates under -40 to 75 Celsius (-40 to 167 Fahrenheit) temperature.

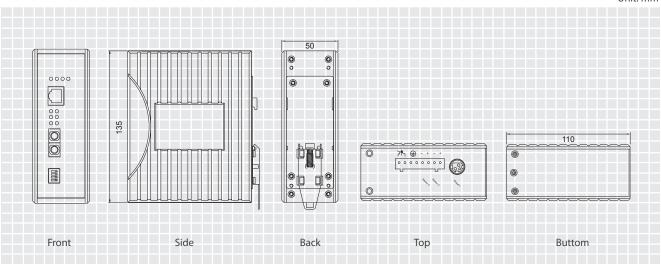
Features

- Complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- 1000Base-SX Multi-mode fiber for the link up to 2 kilometers
- DIP switch configuration for "Link-Fault-Pass-Through," link down alarm, speed, duplex mode
- 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX

Diagrams

- 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, tested for functional operation @ -40°C to 85°C (-40°F to 185°F)
- IP30 aluminum case
- Supports DIN-rail mounting installation



Unit: mm

Specifications

Technology	
Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX,
	IEEE802.3ab1000BASE-T,
	IEEE802.3z 1000BASE-SX/1000BASE-LX, IEEE802.3x
Forward and Filtering Rate	1,488,100pps for 1000Mbps

Power		

FOWEI	
Voltage	Input: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	■ 7.68W, Max., 0.16A @ 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	10/100/1000BASE-TX: 1 port
	■ Gigabit SFP: 1 port
LED Indicators	Per Unit: Power Status (Power1, Power2, Power3, Fault),
	LFPT
	Per Port: 10/100/1000TX: Link/Activity, Speed, Full-
	duplex/Collision
	Gigabit SFP: Link/Activity
Relay Contact	Relay contact rating with current 1A @ 30VDC,
	0.5A @ 120VAC

Environment	
Operating	-40°C to 75°C (-40°F to 167°F)
Temperature	Tested @ -40°C to 85°C (-40°F to 185°F)
Storage Temperature	■ -40°C to 85°C (-40°F to 185°F)
Ambient	■ 5% to 95% (non-condensing)
Relative Humidity	
MTBF	= 53.10 years
Regulatory A	pprovals
ISO	 Manufactured in an ISO9001 facility
Safety	■ UL508
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
	Air: + / - 8KV
	- EN61000-4-3 (Radiated RFI Standards)
	10V/m, 80 to 2.7GMHz; 80% AM
	- EN61000-4-4 (Burst Standards)
	Signal Ports: + / - 4KV
	D.C. Power Ports: + / - 4KV
	- EN61000-4-5 (Surge Standards)
	Signal Ports: + / - 1KV; Line-to-Line
	D.C. Power Ports: + / - 0.5KV; Line-to-earth
	- EN61000-4-6 (Induced RFI Standards)
	Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM
	D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AN
	- EN61000-4-8 (Magnetic Field Standards)
	30A/m @ 50, 60Hz
Environmental	IEC60068-2-6 Fc (Vibration Resistance)
Test	5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storag
Compliance	Transport)
	IEC60068-2-27 Ea (Shock)
	25g @ 11ms (Half-Sine Shock Pulse; Operation)
	50g @ 11ms (Half-Sine Shock Pulse; Storage/Transpor
	FED STD 101C Method 5007.1 (Free fall w/ package)
	-Tested with Cross Weight and Drop High standard table

Order Information

IEC-2002 10/100/1000 Industrial Media Converter, SC MM 2KM, -40 to 75C

Package Contents

IEC-2002 Quick Installation Guide