

IEC-1140

10/100 Industrial Media Converter, SC SM 40KM, -10 to 60C

Overview

LevelOne IEC-1140 is an industrial Fast Ethernet media converter with IP30 ingress protection case. 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.

Safety

Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment; it also complies with IEC60068 vibration and shock resistance as well.

Cost Effective

This device operates under -10 to 60 Celsius (-14 to 140 Fahrenheit) temperature that offers optimal suitability for industrial applications at low cost while maintaining all components built to withstand harsh environment applications without compromise reliability and stability.

Plug & Play

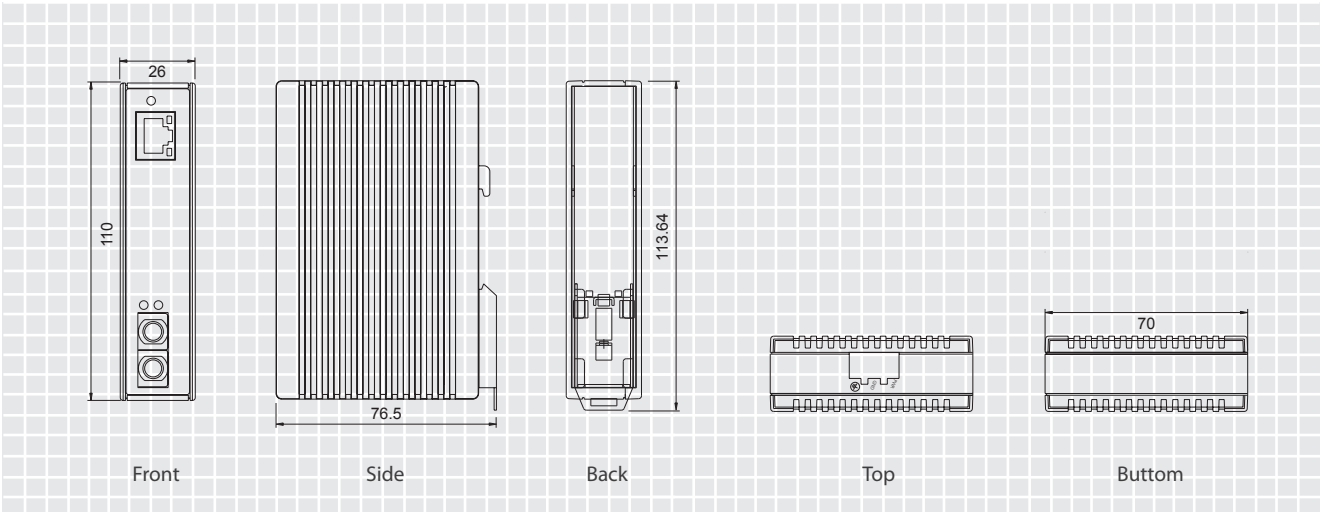
This Industrial Media Converter is designed for the demanding industrial environments at businesses in need of instant connectivity with no setup or configure required, truly plug and play.

Features

- Provides 1-port 10/100Base-TX plus 1-port 100Base-FX
- 100Base-FX Single-mode fiber for the link up to 40 kilometers
- -10°C to 60°C (14°F to 140°F) and is tested for functional operation @ -20°C to 70°C (-4°F to 158°F)
- 10/100Mbps Full/Half duplex, Auto-negotiation, Auto-MDI/MDIX
- Supports 12 to 48VDC power input
- Complies with IEC61000-6-2 EMC Generic standard immunity for industrial environment
- 484K bits buffer memory
- IP30 aluminum case
- Supports DIN-rail mounting installation

Diagrams

Unit: mm



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	▪ 384K bits
Processing Type	▪ Store-and-Forward ▪ Half-duplex back-pressure and IEEE802.3x full-duplex flow control

Power	
Input	▪ Input Voltage: 12 to 48VDC (Terminal Block)
Power Consumption	▪ 4.3W Max. 0.3A @ 12VDC, 0.15A @ 24VDC, 0.07A @ 48VDC
Reverse Polarity Protection	▪ Present

Mechanical	
Casing	▪ Plastic case ▪ IP30
Dimensions	▪ 26mm (W) x 70mm (D) x 110mm (H) (1.02" (W) x 2.76" (D) x 4.33" (H))
Weight	▪ 0.2Kg (0.44lb.)
Installation	▪ DIN-Rail (Top hat type 35mm) Mounting

Interface	
Ethernet Port	▪ 10/100BASE-TX: 1 port ▪ 100BASE-FX: 1 port
LED Indicators	▪ Per Unit: Power Status (Power1, Power2) ▪ Per Port: 10/100TX, 100FX: Link/Activity (Green), Speed (Yellow)

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 Temperature	▪ -25°C to 85°C (-13°F to 185°F)
Ambient Relative Humidity	▪ 5% to 95% (non-condensing)
MTBF	▪ 121.40 years

Regulatory Approvals	
ISO	▪ Manufactured in an ISO9001 facility
Safety	▪ UL60950-1, EN60950-1, IEC60950-1
EMI	▪ FCC Part 15, Class A, VCCI ▪ EN61000-6-4 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	▪ EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: + / - 6KV Air: + / - 8KV - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM 3V/m, 1400 to 2000MHz; 80% AM 1V/m, 2000 to 3000MHz; 80% AM - EN61000-4-4 (Burst Standards) Signal Ports: + / - 4.4KV D.C. Power Ports: + / - 4.4KV - 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% AM - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz
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) ▪ FED STD 101C Method 5007.1 (Free fall w/ package) -Tested with Cross Weight and Drop High standard table

Order Information

IEC-1140 - 10/100 Industrial Media Converter, SC SM 40KM, -10 to 60C

Package Contents

IEC-1140
Quick Installation Guide