



# IEC-1320

## 10/100 Industrial Media Converter w/ 30W PoE PSE, SC SM 20KM -10 to 60C

### Overview

LevelOne IEC-1320 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.

### Power over Ethernet

This switch is Power Sourcing Equipment (PSE), and it is fully complied with IEEE 802.3at PoE standard at maximum 30W power budget per port. It helps to save infrastructure wiring costs dramatically by eliminating electric wiring and less UPS needed. Also, it is compatible with IEEE802.3af standard PD devices.

### 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

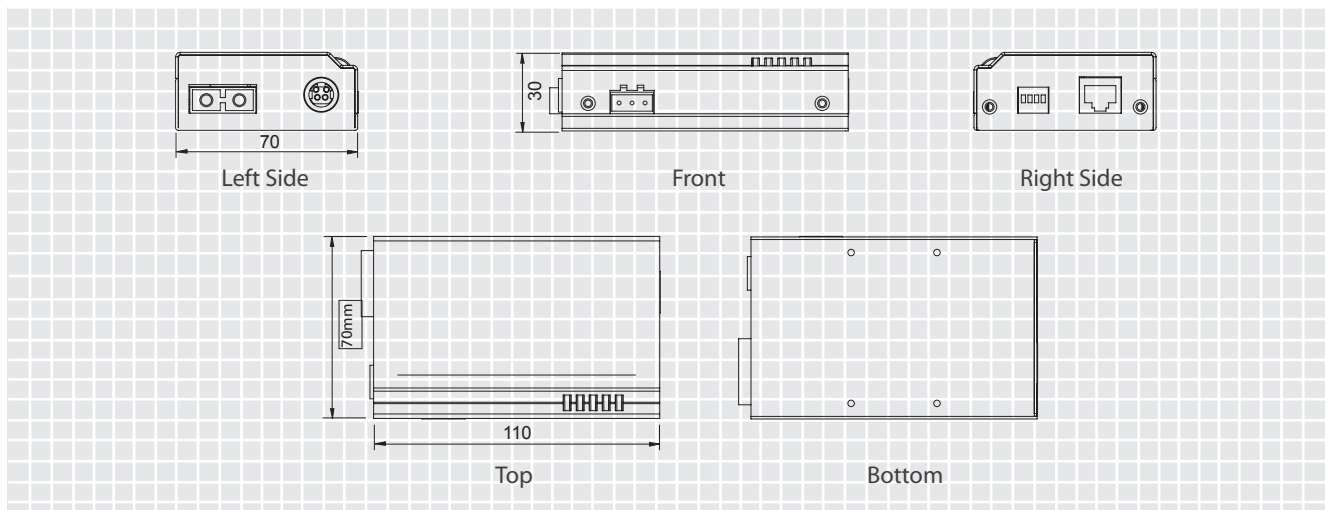
This Industrial Media Converter is designed for the demanding industrial environments at businesses in need of instant connectivity with no setup or configure required, truly plug and play.

## Features

- Provides 1-port 10/100Base-TX plus 1-port 100Base-FX
- 100Base-FX Single-mode fiber for the link up to 20 kilometers
- IEEE 802.3af/at PoE PSE with 30W power budget
- 10/100Mbps Full/Half duplex, Auto-negotiation, Auto-MDI/MDIX
- Complies with IEC61000-6-2 EMC Generic standard immunity for industrial environment
- 228K bits buffer memory
- -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)
- IP30 aluminum case
- Supports DIN-rail mounting installation

## Diagrams

Unit: mm



## Specifications

Technology	
Standards	<ul style="list-style-type: none"> <li>IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX</li> </ul>
Forward and Filtering Rate	<ul style="list-style-type: none"> <li>14,880pps for 10Mbps</li> <li>148,810pps for 100Mbps</li> </ul>
Packet Buffer Memory	<ul style="list-style-type: none"> <li>228K bits</li> </ul>
Processing Type	<ul style="list-style-type: none"> <li>Store-and-Forward</li> <li>Half-duplex back-pressure and IEEE802.3x full-duplex flow control</li> </ul>

Power	
Input	<ul style="list-style-type: none"> <li>48 to 52 VDC supports up to 15.4 Watts</li> <li>52 to 57 VDC supports up to 30 Watts</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>3.6W Max. 0.075A @ 48VDC</li> <li>19.2W Max. 0.4A @ 48VDC when PoE link with 15.4W IEEE802.3af PD</li> <li>34.1W Max. 0.62A @ 55VDC when PoE link with 30Watts high power PD high power PoE</li> </ul>
Overload Current Protection	<ul style="list-style-type: none"> <li>Present</li> </ul>
Reverse Polarity Protection	<ul style="list-style-type: none"> <li>Present</li> </ul>

Mechanical	
Casing	<ul style="list-style-type: none"> <li>Aluminum case</li> <li>IP30</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>70mm (W) x 110mm (D) x 30mm (H)</li> <li>(2.76" (W) x 4.33" (D) x 1.18" (H))</li> </ul>
Weight	<ul style="list-style-type: none"> <li>0.25Kg (0.55lb.)</li> </ul>
Installation	<ul style="list-style-type: none"> <li>DIN-Rail (Top hat type 35mm), Panel, Wall Mounting</li> </ul>

Interface	
Ethernet Port	<ul style="list-style-type: none"> <li>10/100BASE-TX: 1 port</li> <li>100BASE-FX: 1 port</li> </ul>
LED Indicators	<ul style="list-style-type: none"> <li>Per Unit: Power Status (Power)</li> <li>Per Port: 10/100TX: Link/Activity, Full-duplex/Collision, 100FX: Link/Activity</li> <li>PoE: PD connect/PD disconnect</li> </ul>

Environment	
Operating Temperature	<ul style="list-style-type: none"> <li>-10°C to 60°C (14°F to 140°F)</li> <li>Test @ -20°C to 70°C (-4°F to 158°F)</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>-40°C to 85°C (-40°F to 185°F)</li> </ul>
Ambient Relative Humidity	<ul style="list-style-type: none"> <li>5% to 95% (non-condensing)</li> </ul>

Regulatory Approvals	
ISO	<ul style="list-style-type: none"> <li>Manufactured in an ISO9001 facility</li> </ul>
Safety	<ul style="list-style-type: none"> <li>UL508</li> </ul>
EMI	<ul style="list-style-type: none"> <li>FCC Part 15, Class A</li> <li>EN61000-6-4 <ul style="list-style-type: none"> <li>EN55022</li> <li>EN61000-3-2</li> <li>EN61000-3-3</li> </ul> </li> </ul>
EMS	<ul style="list-style-type: none"> <li>EN61000-6-2 <ul style="list-style-type: none"> <li>EN61000-4-2 (ESD Standards) <ul style="list-style-type: none"> <li>Contact: + / - 4KV</li> <li>Air: + / - 8KV</li> </ul> </li> <li>EN61000-4-3 (Radiated RFI Standards) <ul style="list-style-type: none"> <li>10V/m, 80 to 1000MHz; 80% AM</li> </ul> </li> <li>EN61000-4-4 (Burst Standards) <ul style="list-style-type: none"> <li>Signal Ports: + / - 4KV</li> <li>D.C. Power Ports: + / - 4KV</li> </ul> </li> <li>EN61000-4-5 (Surge Standards) <ul style="list-style-type: none"> <li>Signal Ports: + / - 1KV; Line-to-Line</li> <li>D.C. Power Ports: + / - 0.5KV; Line-to-earth</li> </ul> </li> <li>EN61000-4-6 (Induced RFI Standards) <ul style="list-style-type: none"> <li>Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM</li> <li>D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM</li> </ul> </li> <li>EN61000-4-8 (Magnetic Field Standards) <ul style="list-style-type: none"> <li>30A/m @ 50, 60Hz</li> </ul> </li> </ul> </li> </ul>
Environmental Test Compliance	<ul style="list-style-type: none"> <li>IEC60068-2-6 Fc (Vibration Resistance) <ul style="list-style-type: none"> <li>5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport)</li> </ul> </li> <li>IEC60068-2-27 Ea (Shock) <ul style="list-style-type: none"> <li>25g @ 11ms (Half-Sine Shock Pulse; Operation)</li> <li>50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)</li> </ul> </li> <li>FED STD 101C Method 5007.1 (Free fall w/ package) <ul style="list-style-type: none"> <li>-Tested with Cross Weight and Drop High standard table</li> </ul> </li> </ul>

## Order Information

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## Package Contents

IEC-1320

Quick Installation Guide