



## IEC-1320

10/100 Industrial Media Converter w/ 30W PoE PSE

SC SM 20KM -10 to 60C

### Quick Installation Guide

v1.00 - 1209

## 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.

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## Features

- Provides 1-port 10/100Base-TX plus 1-port 100Base-FX
- 100Base-FX Single-mode fibre for the link up to 20 kilometres
- IEEE802.3af/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) operating temperature
- Supports DIN-rail mounting installation

## Package Contents

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## LED Status

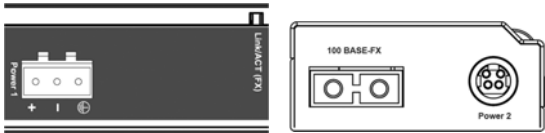


| LED        | Status   | Description                       |
|------------|----------|-----------------------------------|
| Power 1, 2 | Steady   | Power On                          |
|            | Off      | Power Off                         |
| PoE        | Steady   | Power Device (PD) is connected    |
|            | Off      | Power Device (PD) is disconnected |
| Link/ACT   | Steady   | Network connection is established |
|            | Flashing | Transmitting or Receiving data    |
|            | Off      | No connection occurred            |

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# Power Input



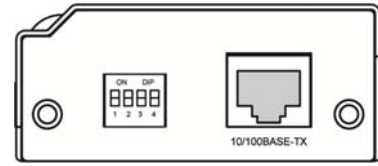
|                |              |   |                                       |
|----------------|--------------|---|---------------------------------------|
| Terminal Block | Power 1      | + | 48-52VDC (15.4W) or<br>52-57VDC (30W) |
|                |              | - | Power Ground                          |
|                | Earth Ground |   |                                       |

|         |         |                                       |
|---------|---------|---------------------------------------|
| DC Jack | Power 2 | 48-52VDC (15.4W) or<br>52-57VDC (30W) |
|---------|---------|---------------------------------------|

**Note**

Both Terminal and DC Jack power inputs can be used to power up this Industrial PoE Media Converter. Redundant power supplies function is supported.

# DIP Switch

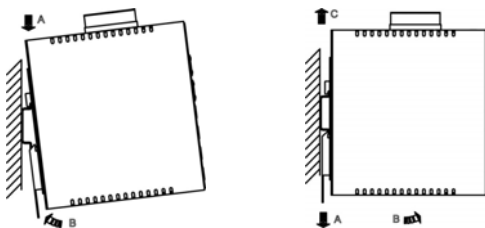


| DIP | On                            | Off                          |
|-----|-------------------------------|------------------------------|
| 1   | Enable Force mode for TX port | Enable Auto mode for TX port |
| 2   | Force to 10Mbps on TX port    | Auto 10/100Mbps on TX port   |
| 3   | Half Duplex on TX port        | Full Duplex on TX port       |
| 4   | LFPT is enabled               | LFPT is disabled             |

**Note:**

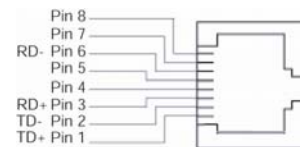
- **LFPT:** Link Forward Pass Through
- Disconnect the power before change the DIP switch settings

# DIN Rail Mount



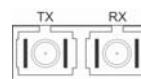
- **Assembly:** Place the switch on the DIN rail from above using the slot. Push the front of the switch toward the mounting surface until it audibly snaps into place
- **Start-up:** Connect the supply voltage to start up the switch via the terminal block (or DC JACK)
- **Dismantling:** Pull out the lower edge and then remove the switch from the DIN rail.

# 10/100Base-TX Connector



| Pin | Standard Port          | Uplink Port            |
|-----|------------------------|------------------------|
| 1   | Output Transmit Data + | Input Receive Data +   |
| 2   | Output Transmit Data - | Input Receive Data -   |
| 3   | Input Receive Data +   | Output Transmit Data + |
| 4   | NC                     | NC                     |
| 5   | NC                     | NC                     |
| 6   | Input Receive Data -   | Output Transmit Data - |
| 7   | NC                     | NC                     |
| 8   | NC                     | NC                     |

# 100Base-FX Connection



The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.