



**IEC-1440** 

10/100 Industrial Media Converter w/ PoE PD SC SM 40KM -10 to 60C

### **Quick Installation Guide**

v1.00 - 1209

### **Overview**

LevelOne IEC-1420 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 converter is PoE Powered Device (PD), which is supplied with current by PoE PSE, and it is fully complied with IEEE 802.3af PoE standard. It helps to save infrastructure wiring costs dramatically by eliminating electric wiring and no power adapter needed.

### **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 40 kilometres
- IEEE802.3af PoE PD that can be powered PoE PSE or external power supply
- 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
- $-10^{\circ}$ C to  $60^{\circ}$ C ( $-14^{\circ}$ F to  $140^{\circ}$ F) operating temperature
- Supports DIN-rail mounting installation

## **Package Contents**

- IEC-1440
- Quick Installation Guide

## **LED Status**



LED	Status	Description
Power 1, 2	Steady	Power On
1 0 WC1 1/2	Off	Power Off
PD Power	Steady	Powered Source Equipment (PSE) is connected
rbrowei	Off	Powered Source Equipment (PSE) is disconnected
	Steady	Network connection is established
Link/ACT	Flashing	Transmitting or Receiving data
	Off	No connection occurred

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# **Power Input**





Block	Power 1	+	48VDC
		-	Power Ground
Terminal Block		Earth Ground	

Power 2	48VDC
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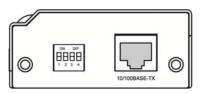
PoE	PD Power	Power Source Equipment (PSE) over Ethernet port
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### Note

This converter can be powered by PoE via Ethernet connection. No Terminal Block or DC Jack power is needed when PSE is connected

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## **DIP Switch**



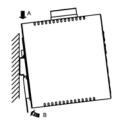
DIP	On	Off
1	Enable Force mode for TX port	Enable Auto mode for TX port
2	Force to 10Mbps on TX port	Auto 10/100Mbps on TX port
3	Half Duplex on TX port	Full Duplex on TX port
4	LFPT is enabled	LFPT is disabled

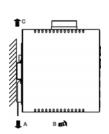
#### Note:

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

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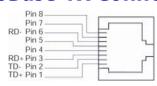
# **DIN Rail Mount**





- 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.