



 Infinity

IEC-4000

Industrial Fast Ethernet mini Media Converter
10/100Mbps RJ-45 Copper to 100Mbps SFP Fibre

Quick Installation Guide



Overview

LevelOne IEC-4000 is an industrial Fast 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.

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.

Ultra-Compact

The ultra-compact converter has the smallest form-factor of any such device in the world, but still offers industrial levels of toughness. Housed in a rugged IP31 aluminium case with in-built surge and ESD protection, the device measures just 59mm by 49mm, with a height of 36mm.

Features

- 10/100BaseT to 100Base-FX
- Rugged aluminium case design in a ultra-compact form factor
- 18V-36VAC & 12V-60VDC with polarity protection
- Link Fault Pass through (LFP) function
- Supports switch and pure converter mode
- Surge & ESD protection
- Maximum noise & interference immunity
- -40°C to 75°C (-40°F to 167°F) operating temperature range
- DIN-Rail or panel mount installation

Package Contents

- Industrial mini Media Converter
- Quick Installation Guide
- DIN-rail & Panel mount kits


LED Status



LED	Status	Description
PWR	Steady	Power On
	Off	Power Off
LK/Act	Steady	Fibre link established
	Flashing	Transmitting or Receiving data
10/100Base-TX		
Green	Steady	Network connection established
	Flashing	Transmitting or Receiving data
Amber	Steady	100M speed is established
	Off	10M speed is established

Power Input



Terminal Block	V+	18 – 36VAC 12 – 60VDC
	V-	Neutral Ground
		Earth Ground

Note:

This unit provides 3 pin terminal-block. And it can be operated using either VAC or VDC power source. The VDC power range is from 12VDC to 60VDC, and the VAC power range is from 18VAC to 36VAC. Always Make sure your input voltage is within this supported voltage range.

WARNING – any exceeded input voltage will not make this unit function and may damage this unit.

To make power connection – Follow the printed polarity for V+, V- and Ground. Connect positive wire to V+, connect negative wire to V-, and also connect neutral wire to ground.

DIP Switch



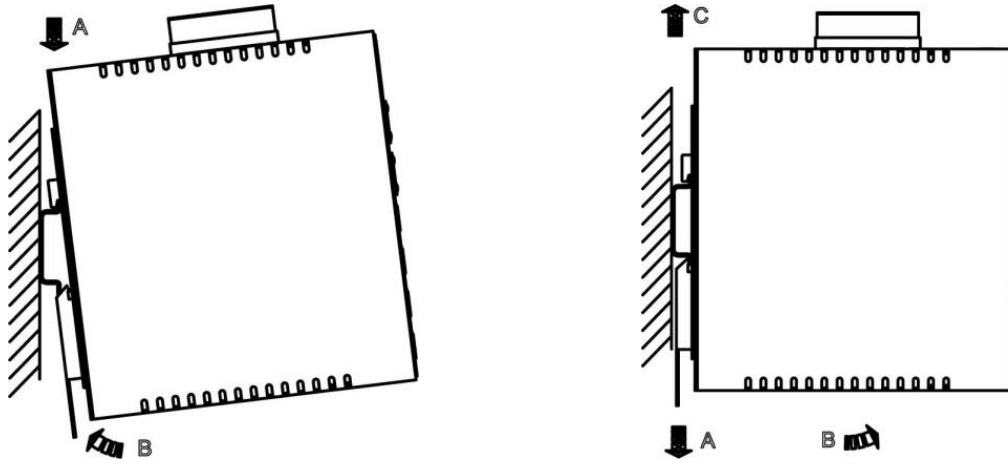
	DIP2	DIP1
ON	LFP enabled	Converter Mode
OFF	LFP disabled (default)	Switch Mode (default)

Note:

This unit is equipped with dip switches, located on the front panel marked as SW1. Adjusting the dip switches will change the default function of this unit. This unit has set to manufacturer default as: switch mode and LFP function off.

The table shown as you may change the dip switch setting to your desired environment.

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

SFP Transceiver (Optional)

The IEC-4000 SFP slot supports pluggable modules (100Base-X only) that enabling you to choose from a variety of transceivers



	Model No.	Description
Industrial	SFP-2100	125M MMF SFP Transceiver (2km, 850nm, -20 to 85C)
	SFP-2200	125M MMF SFP Transceiver (2km, 1310nm, -40 to 85C)
	SFP-2230	125M SMF SFP Transceiver (30km, 1310nm, -40 to 85C)
	SFP-2260	125M SMF SFP Transceiver (60km, 1310nm, -40 to 85C)
	SFP-2280	125M SMF SFP Transceiver (80km, 1310nm, -40 to 85C)
	SFP-2300	125M SMF SFP Transceiver (20km, 1550nm, -40 to 85C)
	SFP-2310	125M SMF SFP Transceiver (100km, 1550nm, -40 to 85C)
	SFP-2320	125M SMF SFP Transceiver (120km, 1550nm, -40 to 85C)
Commercial	SFP-1101	155M MMF SFP Transceiver (2km, 1310nm, 0 to 70C)
	SFP-1311	155M SMF SFP Transceiver (20km, 1310nm, 0 to 70C)

	SFP-1411	155M SMF SFP Transceiver (40km, 1310nm, 0 to 70C)
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