



## Infinity IFP-0503

5-Port Fast Ethernet Industrial PoE Switch,

4 PoE Outputs, 802.3at PoE Plus, 1 Port SC Single-Mode Fiber, 30km

### Quick Installation Guide



v1.0

## Overview

The LevelOne IFP-0503 Industrial Fast Ethernet PoE+ Switch provides 4 ports at 10/100M TX PSE to supply power and internet to PoE+ compatible Powered Devices (PD) in a large-scale indoor or outdoor network setting. The IFP-0503 supplies 15.4 Watts for IEEE802.3af or 30 Watts (Max 36W) for IEEE802.3at per port. Duplex mode Fibre allows installation up to 30km from the power source. With an industrial-standard DIN-rail mount for easy cabinet deployment and metal casing rated to IP30, this ruggedized switch is engineered for installation in industrial settings where humidity, dust, high or low operating temperatures or vibrations could cause standard devices to fail.

### 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.

### Plug & Play

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

IFP-0503

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### 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.

## Features

- Meets NEMA TS1/TS2 Environmental requirements such as temperature, shock, and vibration for traffic control equipment
- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment
- Supports 1024 MAC addresses. Provides 1M bits memory buffer
- Provides one Port SC Single-Mode Fiber with a maximum networking range of 30km.
- Store-and-forward mechanism. Full wire-speed forwarding rate.
- Power Supply: 44-56VDC Terminal Block power input.
- 3.76W power consumption 48VDC full load
- -40°C to 75°C (-40°F to 167°F) operating temperature range.
- Tested for functional operation @ -40°C to 85°C (-40°F to 185°F).
- Metal case design and compliant with IP30 standard

## Package Contents

- IFP-0503
- Din rail\*1, wall mount\*2, terminal block\*1, screw\*4
- Quick Installation Guide

# LED Status



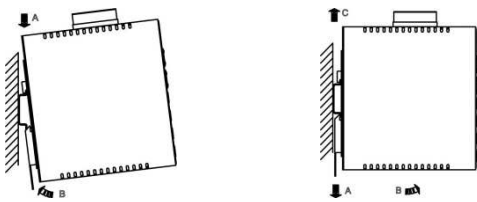
LED	Status	Description
PWR 1, 2	ON	Power On
	OFF	Power Off
SW (relay)	ON	both PW1 and PW2 are connected
	OFF	only PW1 or PW2 is connected
<b>10/100/Base-TX</b>		
LNK(1 ~ 4)	ON	TX link is detected
	OFF	TX port is not detected
	Flashing	TX port is active
POE(1 ~ 4)	ON	PD is connected
	OFF	No PD is connected
<b>Fiber</b>		
F5	ON	FX fiber is detected
	OFF	FX fiber is not detected
	Flashing	FX fiber is active

# Power Input



Terminal Block	PW1	+	44-56VDC
		-	Power Ground
	PW2	+	44-56VDC
		-	Power Ground
Relay Output		1A @ 24VDC	

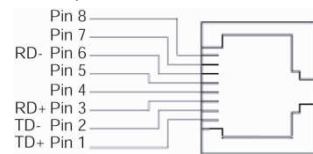
# DIN Rail Mount



- 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

The following lists the pin-out of 10/100Base-TX ports.



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