



## IES-0511

4 x 802.3af + 1 FE Unmanaged Switch -10 to 60C, Desktop

### Quick Installation Guide

v1.00 - 1206

## Overview

LevelOne IES-0511 Industry Ethernet Switch provides 4 PoE ports of 10/100Base-TX plus 1 ports of 10/100Base-TX Ethernet to enable high speed network at mission-critical environment. This device is designed to be mounted on an industry standard DIN-rail, plus the clearly visible status LEDs provide simple monitoring of port link activity.

### 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.

### Power over Ethernet

This switch is Power Sourcing Equipment (PSE), and it is fully complied with IEEE 802.3af PoE standard at maximum 15.4W power budget per port. It helps to save infrastructure wiring costs dramatically by eliminating electric wiring and less UPS needed.

IES-0511

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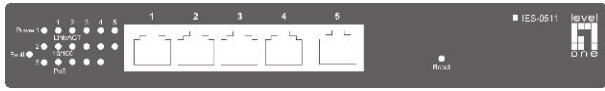
## Features

- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment.
- Supports IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE).
- Supports IEEE802.3/802.3u/802.3x. Auto-negotiation: 10/100Mbps, Full/Half-duplex, Auto-Negotiation, Auto MDI/MDIX.
- 100Base-FX: Multi/Single mode SC or ST type, 100Base-BX: WDM Multi/Single mode SC type.
- Supports 1024 MAC addresses. Provides 512K bits buffer memory.
- Alarms for power and port link failure by relay output.
- Power Supplies: Redundant 48VDC Terminal Block power inputs and 48VDC DC JACK with optional 100-240VAC external power supply.
- Operating voltage and Max. current consumption: 1.5A @ 48VDC. Power consumption: 7.2W Max.
- -10°C to 60°C (-14°F to 140°F) operating temperature range.
- Tested for functional operation @ -20°C to 70°C (-4°F to 158°F).
- Supports Desktop installation.

## Package Contents

- IES-0511
- Quick Installation Guide
- CD User Manual

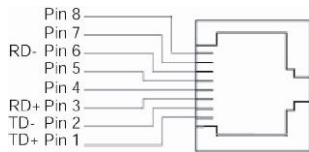
# LED Status



LED	Status	Description
PWR (1,2,3)	Steady	Power On
	Off	Power Off
Fault	Steady	Redundancy Power is failed
	Off	Redundancy Power is activated
<b>10/100Base-TX or 100Base-FX/BX</b>		
LNK/ACT	Steady	Network connection is established
	Flashing	Transmitting or Receiving data
10/100	Steady	Connection at 100Mbps speed
	Off	Connection at 10Mbps speed

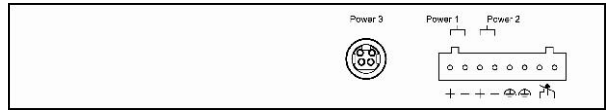
# 10/100Base-TX Connector

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

# Power Input

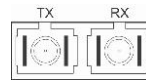


Terminal Block	PW1	+	48VDC
		-	Power Ground
	PW2	+	48VDC
		-	Power Ground
	⊕	Earth Ground	
	⚡	Relay Output	1A @ 24VDC

1. The relay contact opens if Power1 or Power2 falls  
 2. The relay contact opens if the Port Link is broken (When Link Down Detection is enabled)

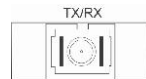
**PW3:** 48VDC DC Jack Input

# 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.

# WDM 100Base-BX Connection



Only one optical fiber is required to transmit and receive data