



 Infinity

IES-0823

6 GE + 2 SFP Unmanaged Switch -20 to 60C, DIN-rail

Quick Installation Guide

Overview

LevelOne IES-0823 Industry Ethernet Switch provides 6 ports of Gigabit Ethernet plus 2 1000Base SFP slots 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. Moreover, the SFP slots support pluggable modules that enabling you to choose from a variety of transceivers.

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.

Redundancy

This redundant power system is designed to meet the challenge of power failure to ensure reliability and constant availability. Single power design works fine in non-critical network applications, but it falls short drastically for network applications in transportation, automate production or banking.

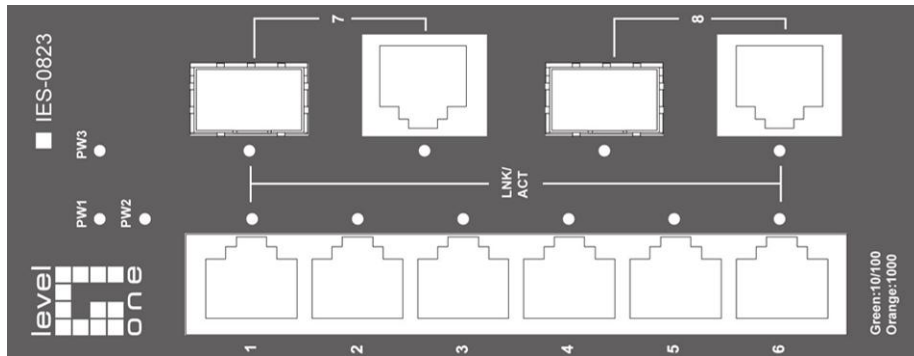
Features

- Meets EN61000-6-2 & EN61000-6-3 EMC Generic Standard Immunity for industrial environment.
- Supports IEEE802.3/802.3u/802.3ab/802.3z/802.3x/802.1p. Auto-negotiation: 10/100/1000Mbps, Full/Half-duplex; Auto MDI/MDIX.
- 1000Base-SX/LX: Multi mode, Single mode SC type. 1000Base-BX: WDM Single mode SC type.
- IEEE802.1p Queue Priority: Support 4 priority queues.
- Supports 8192 MAC addresses. Provides 1.125M bits buffer memory.
- Supports jumbo frame up to 9K Bytes.
- Alarms for power failure by relay output.
- Power Supplies: Redundant 9-32VDC Terminal Block power inputs and 12VDC DC JACK with 100-240VAC external power supply.
- Field Wiring Terminal: Use Copper Conductors Only, 60/75°C, 12-24 AWG torque value 7 lb-in.
- Operating voltage and Max. current consumption: 0.6A @ 12VDC, 0.3A @ 24VDC. Power consumption: 7.2W Max.
- Operating temperature ranges from -20°C to 60°C
- Supports DIN-Rail or Panel Mounting installation

Package Contents

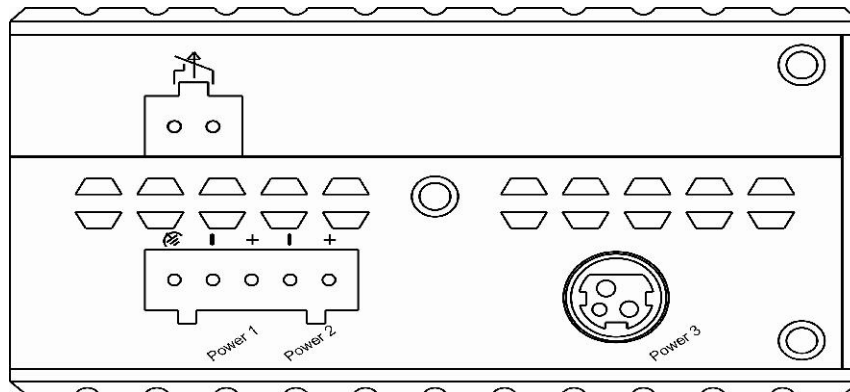
- IES-0823
- Quick Installation Guide
- CD User Manual



LED Status



| LED | Status | Description |
|----------------------------|----------|-----------------------------------|
| PW 1,2,3 | Steady | Power On |
| | Off | Power Off |
| 10/100Base-TX | | |
| LNK/ACT (Green) | Steady | Network connection is established |
| | Flashing | Transmitting or Receiving data |
| 1000Base-T/SX/LX/BX | | |
| LNK/ACT (Orange) | Steady | Network connection is established |
| | Flashing | Transmitting or Receiving data |

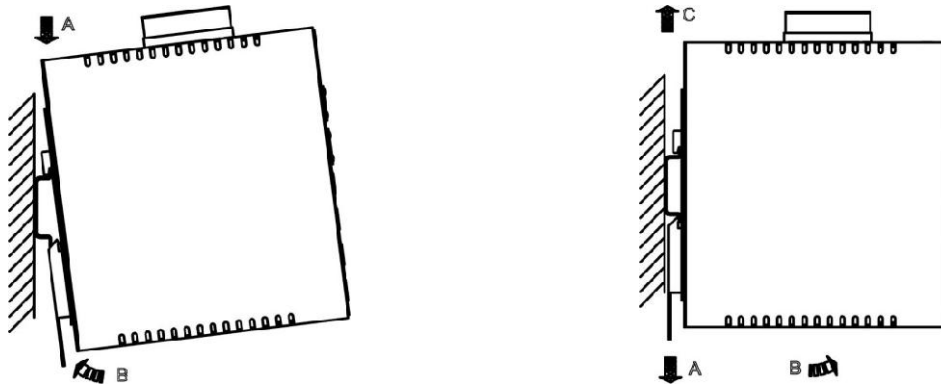
Power Input



| | | | |
|---|---|---------------------|---------------------------|
| Terminal Block | PW1 | + | 24VDC (9 to 32VDC) @ 1.5A |
| | | - | Power Ground |
| | PW2 | + | 24VDC (9 to 32VDC) @ 1.5A |
| | | - | Power Ground |
| |  | Earth Ground | |
|  | Relay Output | 30VDC @ 1.0A | |
| <ol style="list-style-type: none"> 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: 12VDC @ 3.0A DC Jack Input

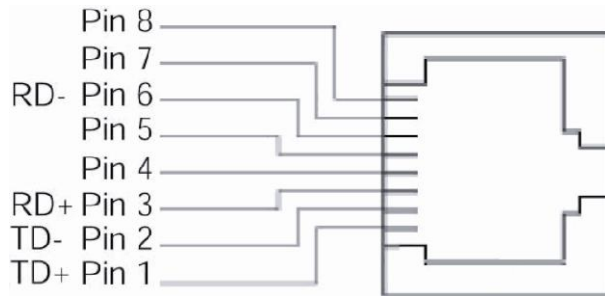
DIN Rail Mount



- 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.

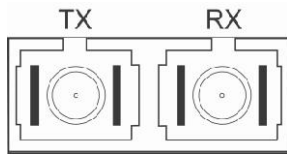
10/100Base-TX Connector

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



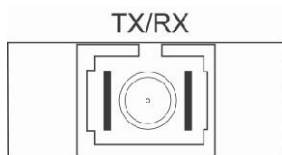
| Pin | Standard Port | Uplink Port |
|-----|------------------------|------------------------|
| 1 | Output Transmit Data + | Input Receive Data + |
| 2 | Output Transmit Data - | Input Receive Data - |
| 3 | Input Receive Data + | Output Transmit Data + |
| 4 | NC | NC |
| 5 | NC | NC |
| 6 | Input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

1000Base-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 1000Base-BX Connection



Only one optical fiber is required to transmit and receive data