



# Infinity IES-0880

8 GE Managed Switch -20 to 60C, DIN-rail

## Quick Installation Guide

### Default Setting

IP	192.168.1.10
Login	root
Password	[blank]
Console	115200, n, 8, 1

v1.00 - 1206

## Overview

LevelOne IES-0880 Industry Ethernet Switch provides 8 ports of Gigabit 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.

### 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 -20 to 60 Celsius (-4 to 140 Fahrenheit) temperature.

### Resilient Ring Network

Supports Ring topology network providing simple installation and ultra fast network recovery performance, less than 15ms. Unlike much complex resilient topology, such as a redundant star, the Ring simplifies the network design and requires less cabling installation. In addition, fast network recovery time helps minimize system downtime.

### Management

Supports a variety of management features including: CLI via Console or Telnet; Graphic User Interface via Web Browser or Simple Network Management Protocol via SNMP tools. It provides better visibility and management of those critical assets.

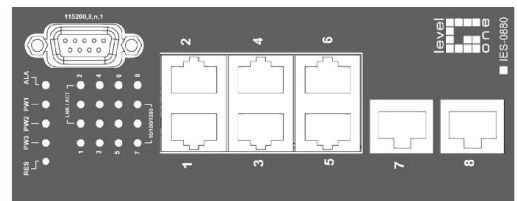
## Features

- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment.
- Manageable via SNMP, Web-based, Telnet, and RS-232 console port.
- Supports Command Line Interface in RS-232 console.
- Supports IEEE802.3/802.3u/802.3ab/802.3z/802.3x. Auto-negotiation: 10/100/1000Mbps, full/half-duplex. Auto MDI/MDIX.
- 1000Base-SX/LX: Multi mode or Single mode SC type; 1000Base-BX: WDM Single mode SC type.
- Support 4096 MAC addresses. Provides 1M bits memory buffer.
- Store-and-forward mechanism.
- Full wire-speed forwarding rate.
- Alarms for power failure by relay output.
- Operating voltage and Max. current consumption: 1.7A @ 12VDC, 0.85A @ 24VDC. Power consumption: 20.4W Max.
- Power supply: Redundant DC Terminal Block power inputs and 12VDC DC JACK with 100-240VAC external power supply.
- Field Wiring Terminal Markings: Use Copper Conductors Only, 60/75°C, wire range 12-24 AWG, torque value 7 lb-in.
- -20°C to 60°C (-4°F to 140°F) operating temperature range. UL508 Industrial Control Equipment certified Maximum Surrounding Air Temperature @ 60°C (140°F).
- For use in Pollution Degree 2 Environment.
- Supports Din-Rail or Panel Mounting installation

## Package Contents

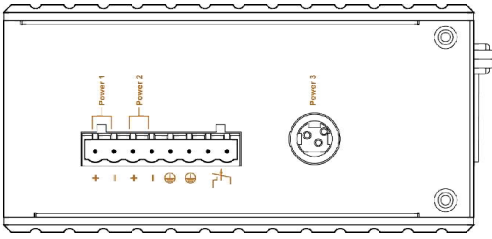
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## LED Status



LED	Status	Description
PW 1,2,3	Steady	Power On
	Off	Power Off
ALA (Alarm)	Steady	Redundancy Power is failed
	Off	Redundancy Power is activated
<b>10/100/1000Base-TX &amp; 1000Base-SX / LX / BX</b>		
LNK/ACT	Steady	Network connection established
	Flashing	Transmitting or Receiving data
Speed	Amber	Connection at 1000Mbps
	Green	Connection at 100Mbps
	Off	Connection at 10Mbps

# Power Input



Terminal Block	PW1	+	12 – 32VDC
		-	Power Ground
	PW2	+	12 – 32VDC
		-	Power Ground
		<b>Earth Ground</b>	
	<b>Relay Output</b>	1A @ 24VDC	

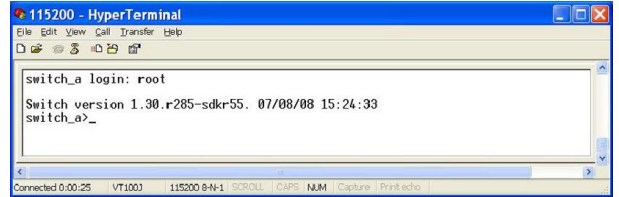
Relay Alarm warning signal disable for following:

- The relay contact closes if Power1 and Power2 are both failed but Power3 on
- The relay contact closes if Power3 is failed but Power1 and Power2 are both on

**PW3** is DC Jack type with 12VDC input

# Console Configuration

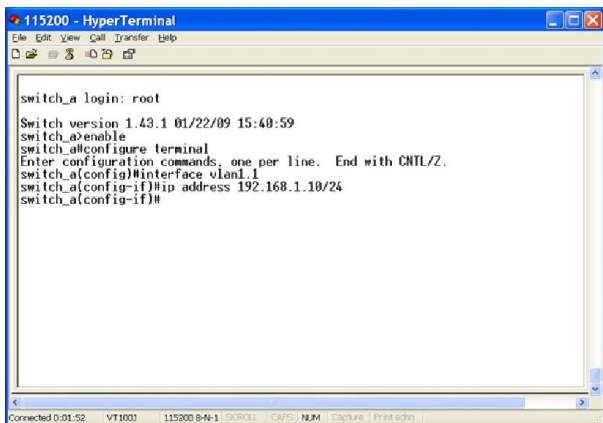
1. Connect to the switch console:
2. Connect the DB9 straight cable to the RS-232 serial port of the device and the RS-232 serial port of the terminal or computer running the terminal emulation application. Direct access to the administration console is achieved by directly connecting a terminal or a PC equipped with a terminal-emulation program (such as HyperTerminal) to the switch console port.
3. Configuration settings of the terminal-emulation program:
4. Baud rate: 115,200bps, Data bits: 8, Parity: none, Stop bit: 1, Flow control: none.
5. Press the “Enter” key. The Command Line Interface (CLI) screen should appear as below:
6. Logon to Exec Mode (View Mode):
7. At the “switch\_a login:” prompt just type in “root” and press <Enter> to logon to Exec Mode (or View Mode). And the “switch\_a>” prompt will show on the screen.



8. Logon to Privileged Exec Mode (Enable Mode):
9. At the “switch\_a>” prompt just type in “enable” and press <Enter> to logon to Privileged Exec Mode (or Enable Mode). And the “switch\_a#” prompt will show on the screen.
10. Logon to Configure Mode (Configure Terminal Mode):
11. At the “switch\_a#” prompt just type in “configure terminal” and press <Enter> to logon to Configure Mode (or Configure

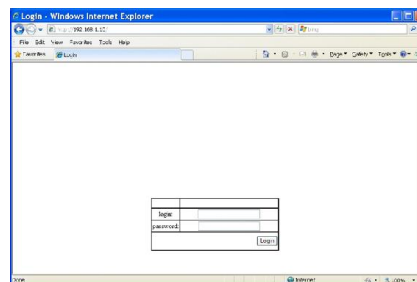
Terminal Mode). And the “switch\_a(config)#” prompt will show on the screen.

12. Set new IP address and subnet mask for Switch:
13. At the “switch\_a(config)#” prompt just type in “interface vlan1.1” and press <Enter> to logon to vlan 1 (vlan1.1 means vlan 1). And the “switch\_a(config-if)#” prompt will show on the screen.
14. Command Syntax: “ip address A.B.C.D/M”. “A.B.C.D” specifies IP address. “M” specifies IP subnet mask. “M”= 8: 255.0.0.0, 16:255.255.0.0, or 24: 255.255.255.0.
15. For example, At the “switch\_a(config-if)#” prompt just type in “ip address 192.168.1.10/24” and press <Enter> to set new IP address (192.168.1.10) and new IP subnet mask (255.255.255.0) for Switch

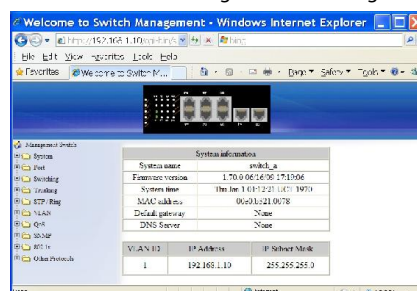


# Web Configuration

1. Login the switch:
2. Specify the default IP address (192.168.1.10) of the switch in the web browser. A login window will be shown as below:



3. Enter the factory default login ID: root.
4. Enter the factory default password (no password).
5. Then click on the “Login” button to log on to the switch.



**Note:** Please refer to User Manual for more detailed information