

COInfinity

IES-1881

16 x 802.3af + 2 GE TX/1000LX Combo Managed Switch -40 to 75C

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-1881 Industry Ethernet Switch provides 16 PoE ports of 10/100Base-TX plus 2 Combo ports of 1000Base-T Gigabit Ethernet and 1000Base-LX SM SC fiber to enable high speed network at mission-critical environment. With the 1U height rackmountable size, this switch can be easily installed in the cabinet, 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 -40 to 75 Celsius (-40 to 167 Fahrenheit) temperature.

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.

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.

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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.
- RS-232 console, Telnet, SNMP v1 & v2c & v3, RMON, Web Browser, and TFTP management.
- Supports Command Line Interface in RS-232 console.
- Supports 8192 MAC addresses. Provides 2M bits memory buffer.
- Supports IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE).
- Supports IEEE802.3/802.3u/802.3ab/802.3z/802.3x. Auto-negotiation: 1000Mbps-full-duplex; 10/100Mbps-full/half-duplex; Auto MDI/MDIX.
- 100Base-FX: Multi mode SC or ST type, Single mode SC or ST type; 100Base-BX: WDM Single mode SC type.
- 1000Base-SX/LX: Multi mode or Single mode SC type; 1000Base-BX: WDM Single mode SC type.
- Provides up to two combo Gigabit ports.
- Store-and-forward mechanism. Full wire-speed forwarding rate.
- Alarms for port and power failure by relay output.
 Power Supply: Redundant 47~55VDC Terminal Block power inputs.
- Field Wiring Terminal: Use Copper Conductors Only, 60/75°C, 12-24 AWG torque value 7 lb-in.
- Operating voltage and Max. current consumption: 0.25A @ 48VDC. Power consumption: 262W Max. (Full load with PoE), 12W Max. (Without PoE).
- -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). UL508 Industrial Control Equipment certified Maximum Surrounding Air Temperature @ 75°C (167°F).
- For use in Pollution Degree 2 Environment.Hardened metal case.
- Supports Rack Mounting installation

Supports Rack Mounting installation

Package Contents

- IES-1881
- Quick Installation Guide
- CD User Manual

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LED Status

LED	Status	Description	
PW 1,2	Steady	Power On	
1 1 1 1,2	Off	Power Off	
10/100Base-TX, 1	00Base-FX		
LNK/ACT	Steady	Network connection is established	
LINGACI	Flashing	Transmitting or Receiving data	
10/100	Steady	Connection speed at 100Mbps	
10/100	Off	Connection speed at 10Mbps	
PoE	Steady	Power Device (PD) is connected	
	Off	Power Device (PD) is disconnected	
100Base-FX			
LNK/ACT	Steady	Network connection is established	
LINGACI	Flashing	Transmitting or Receiving data	
10/100	Steady	Connection speed at 100Mbps	
	Off	No connection	
10/100/1000Base	-TX, 1000Base-SX/LX	/BX	
LNK/ACT	Steady	Network connection is established	
LINIV ACT	Flashing	Transmitting or Receiving data	
1000	Steady	Connection speed at 100Mbps	
1000	Off	No connection at 1000Mbps speed	

Power Input



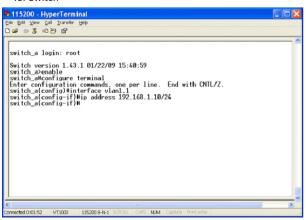
P Block	Power1	+	47 to 55VDC			
		-	Power Ground			
	Power2	+	47 to 55VDC			
	1000012	-	Power Ground			
Terminal	٢	Earth Ground				
	3≁	Relay Output	1A @ 250VAC			
	1. The relay contact closes if Power1 or Power2 are both failed					

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Terminal Mode). And the "switch_a(config)#" prompt will show on the screen.

- 12. Set new IP address and subnet mask for Switch:
- 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.
- Command Syntax: "ip address A.B.C.D/M". "A.B.C.D" specifies IP address. "M" specifies IP subnet mask. "M"= 8: 255.0.00, 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



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.
- Configuration settings of the terminal-emulation program:
 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.

🗣 115200 - HyperTerminal	
Elle Etilt View Call Iransfer Help	
በጅ # \$ ወዝ ሸ	
switch_a login: root Switch version 1.30.r285-sdkr55. 07/08/08 15:24:33 switch_a>_	
¢	>
Connected 0:00:25 VT100J 115200 8-N-1 SCROLL CAPS NUM Capture Print	

- 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

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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.

Monogenet South		System informat	ion	
Port	System nor		switch a	
- Switching	Firmware ver	rsion 1.70.0	07/08/09 11:26:37	s
Trenking	System fin	e Thu Jan 1	00-05-11 UCT 1970	
SIP/Rig	MAC adds	css 00	00c0.b391.0000 None	
VLAN	Default gate	way		
🗅 Q.6	DNS Sert	e e	None	
🗎 SNMP				
S(0.1)	VLAN ID	IP Address	IP Subnet Mask	
🗋 Oller Putourb	1	192 168 1 10	255 215 251 0	
э				😝 Internat 🚳 - 🔍 _0096 -

Note: Please refer to User Manual for more detailed information