



COInfinity

IES-1082 8 x 802.3af + 2 GE TX Managed Switch -40 to 75C, DIN-rail

Overview

LevelOne IES-1082 Industry Ethernet Switch provides 8 PoE ports of 10/100Base-TX plus 2 ports of 10/100/1000Base 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 -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.

Features

Diagrams

- Supports PoE Power Sourcing Equipment (PSE)
- PoE control and scheduling
- Supports α -ring and RSTP/MSTP/STP for Ethernet redundancy
- IP Multicast Filtering through IGMP Snooping V1, V2 & V3
- Supports port-based VLAN and IEEE802.1Q VLAN Tagging and GVRP
- IEEE802.1p QoS with four priority queues
- MAC-based trunking with automatic link fail-over
- RS-232 console, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management
- Supports Command Line Interface in RS-232 Console
- Supports IEEE 802.3ad Link Aggregation

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.

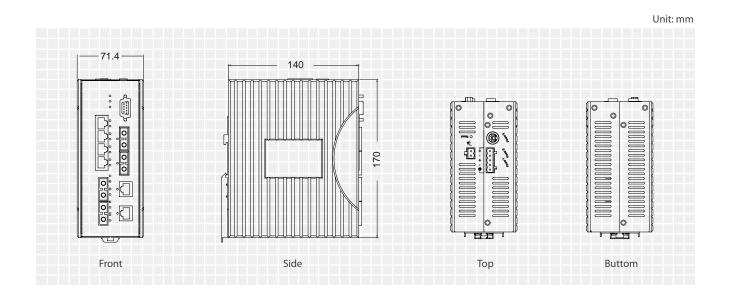
Management

IES-1082 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.

Safety

This device has been tested under UL508 standard for Industrial Control Equipment to endurance under test turn on and off 6,000 times while loaded, with no single failure. It's highly reliability and safety measurement to ensure field hardened, especially for the harsh environment.

- Supports IEEE802.1x Security
- Bandwidth Rate Control
- Per-port programmable MAC address locking
- Up to 24 Static Secure MAC addresses per port
- Port mirroring
- NTP synchronization
- 1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Full wire-speed forwarding rate
- -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)



Specifications

Technology		Environment	
Standards	 IEEE802.3 10BASE-T, IEEE802.3u 100BASE- TX/100BASE-FX, IEEE802.3ab 1000BASE-T, IEEE802.3z 1000BASE-SX/1000BASE-LX, IEEE802.3x, IEEE802.1p, IEEE802.1Q, IEEE802.1w, IEEE802.1x,IEEE802.3af 	Operating Temperature	■ -40°C to 75°C (-40°F to 167°F)
			Tested @ -40°C to 85°C (-40°F to 185°F)
		Storage Temperature	■ -40°C to 85°C (-40°F to 185°F)
Forward and Filtering Rate	 14,880pps for 10Mbps 148,810pps for 100Mbps 1,488,100pps for 1000Mbps 	Ambient Relative Humidity	■ 5% to 95% (non-condensing)
Packet Buffer Memory	• 2M bits	MTBF	■ 29.05 years
Processing	Store-and-Forward	Regulatory Approvals	
Туре	 Half-duplex back-pressure and IEEE802.3x full-duplex flow control 	• •	Manufactured in an ISO9001 facility
Address Table	8192 MAC addresses		
Size		Safety	UL508
Power		EMI	 FCC Part 15, Class A
Power Input	Redundant power inputs:		EN61000-6-4
	Terminal Block: 47 - 57VDC		- EN55022
	DC Jack: 47 - 57VDC		- EN61000-3-2
Power Consumption	Device: Max. 15W (without PoE)		- EN61000-3-3
	PoE power budget (depends on power input):	EMS	EN61000-6-2
	181.6W Max.		- EN61000-4-2 (ESD Standards)
PoE Power Output	Port 1 to 4		Contact: + / - 6KV; Criteria B Air: + / - 8KV; Criteria B - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A
	IEEE802.3af: up to 15.4W/port, 47 - 57VDC.		
	IEEE802.3at: up to 30W/port, 50 - 57VDC		
Supports over	rload current protection		- EN61000-4-4 (Burst Standards)
Supports rev	erse polarity protection		Signal Ports: + / - 4KV; Criteria B
			D.C. Power Ports: + / - 4KV; Criteria B - EN61000-4-5 (Surge Standards)
Mechanical			Signal Ports: + / - 1KV; Line-to-Line; Criteria B
Casing	Metal case IP30		D.C. Power Ports: + / - 0.5KV; Line-to-Earth; Criteria B - EN61000-4-6 (Induced RFI Standards)
Dimensions	 65mm (W) x 145mm (D) x 165mm (H) (2.56" (W) x 5.71" (D) x 6.5" (H)) 	Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria / D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A - EN61000-4-8 (Magnetic Field Standards)	
Weight	• 1Kg (2.2lbs.)		- EN61000-4-8 (Magnetic Field Standards)
Installation	Din-Rail (Top hat type35mm), Wall Mount	Environmental	30A/m @ 50, 60Hz; Criteria A IEC60068-2-6 Fc (Vibration Resistance)
Interface		Test	5g @ 10 - 150Hz, Amplitude 0.35mm
Ethernet Port	= 10/100BASE-TX (PoE): 8 or 4 ports	Compliance	(Operation/Storage/Transport)
	 100BASE-FX: 0, 2 or 4 ports Gigabit: 0, 1 or 2 ports 		 IEC60068-2-27 Ea (Shock)
Console Port	Port: One DB9 RS-232 port		25g @ 11ms (Half-Sine Shock Pulse; Operation)
LED Indiante			50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport)
LED Indicators	 Per Unit: Power Status (Power 1, Power 2, Power 3) Per Port: PoE (Amber) for 10/100TX, 10/100TX, 100FX: Link/Activity (Green), Gigabit: Link/Activity (Green) 		 IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)

Order Information

IES-1082 - 8 x 802.3af + 2 GETX Managed Switch -40 to 75C, DIN-rail

Package Contents IES-1082

IES-1082 CD Manual / Utility Quick Installation Guide