





IES-0843

4 x 802.3at + 3 FE + 1 MM SC Web Smart Switch -10 to 60C, DIN-rail

Overview

LevelOne IES-0843 Industry Ethernet Switch provides 4 PoE ports of 10/100Base-TX plus 3 ports of 10/100Base-TX Ethernet plus 1 port 100FX Multimode SC fiber 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 802.3at PoE standard at maximum 30W power budget per port. It helps to save infrastructure wiring costs dramatically by eliminating electric wiring and less UPS needed. Also, it is compatible with IEEE802.3af standard PD devices.

Features

- Provides flexibility of 8 Ethernet ports that configure in combinations of copper and fiber optic interfaces
- -10°C to 60°C (14°F to 140°F) and is tested for functional operation @ -20°C to 70°C (-4°F to 158°F)
- Port 1 4 support IEEE802.3at Power over Ethernet Plus (PoE+) Power Sourcing Equipment (PSE)
- PoE ports can support the IEEE 802.3at standard and power up 30W devices
- Provides DIN-rail, panel or Rack mounting

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.

Web Management

Web-based GUI management features implementation of Port-based VLAN, IEEE802.1p QoS, Prioritised DSCP, set up Admin Password with ease. Plus, the Power over Ethernet ports can be On / Off and limits the power budget remotely.

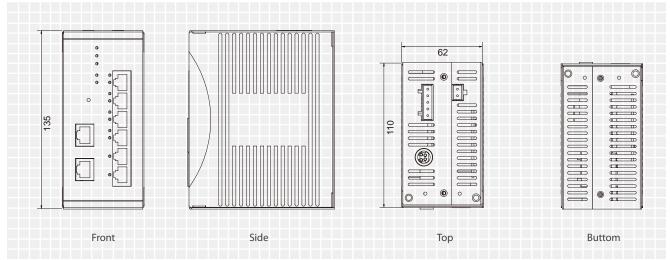
Safety

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.

- System, IP Configuration, Port-based VLAN and QoS Priority setting through the Web browser Interface
- PoE (Power budget Control, PoE status, Port status) through the Web browser Interface
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- Complies with NEMA TS2 Environmental requirements for Traffic control equipment
- Alarms for power and port link failure by relay output
- Redundant power inputs with Terminal Block and DC Jack

Diagrams

Unit: mm



Specifications

Technology	
Standards	■ IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX,
	■ IEEE802.3x, IEEE802.3af/at
Forward and Filtering Rate	■ 14,880pps for 10Mbps
	■ 148,810pps for 100Mbps
Packet Buffer Memory	■ 1M bits
Processing Type	■ Store-and-Forward
	 Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	■ 1024 MAC addresses

Power	
Power Input	Redundant power inputs:
	Terminal Block: 47 - 57VDC
	DC Jack: 47 - 57VDC
Power Consumption	 Device: Max. 10W (without PoE) PoE power budget (depends on power input): 120W Max.
PoE Power Output	Port 1 to 4IEEE802.3at: up to 30W/port, 50 - 57VDC
Supports overload current protection	

Mechanical	
Casing	■ Metal case
	■IP30
Dimensions	■62mm (W) x 110mm (D) x 135mm (H)
	(2.44" (W) x 4.33" (D) x 5.31" (H))
Weight	■1Kg (2.2lbs.)
Installation	■ DIN-Rail (Top hat type 35mm), Panel, Rack Mounting
Interface	
Ethernet Port	■ 10/100BASE-TX: 8, 7 or 6 ports
	■ 100BASE-FX: 0, 1 or 2 ports
LED Indicators	Per Unit: Power Status (Power 1, Power 2, Power 3)
	Per Port: 10/100TX, 100FX: Link/Activity (Green)
	PoE: Link (Amber)
Alarm Contact	One relay output with current 1A @ 24VDC
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Environment	
Operating Temperature	■ -10°C to 60°C (14°F to 140°F) Tested @ -20°C to 70°C (-4°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	■ 5% to 95% (non-condensing)
MTBF	■ 25.11 years

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Regulatory	Approvals
ISO	Manufactured in an ISO9001 facility
Safety	UL508 (Pending)
ЕМІ	 FCC Part 15, Class A EN61000-6-3 EN55022 EN61000-3-2 EN61000-3-3
EMS	■ EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: +/ - 4KV; Criteria B Air: +/ - 8KV; Criteria B - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM Criteria A 3V/m, 1400 to 2000MHz; 80% AM Criteria A 1V/m, 2000 to 2700MHz; 80% AM Criteria A - EN61000-4-4 (Burst Standards) Signal Ports: +/ - 4KV; Criteria B D.C. Power Ports: +/ - 4KV; Criteria B - EN61000-4-5 (Surge Standards) Signal Ports: +/ - 1KV; Line-to-Line; Criteria B D.C. Power Ports: +/ - 0.5KV; Line-to-Earth; Criteria B - EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz; Criteria A
Environmen Test Compliance	 IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) IEC60068-2-32 Ed (Free Fall) 1M (3.281ft.)

Order Information

Supports reverse polarity protection

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Package Contents

IES-0843

CD Manual / Utility

Quick Installation Guide