





IES-0812 4 x 802.3af + 3 FE+ 1 MM SC Unmanaged Switch -10 to 60C, DIN-rail

Overview

LevelOne IES-0812 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 802.3af 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

 Provides flexibility of 8 Ethernet ports that configure in combinations of copper and fiber optic interfaces

- -10°C to 60°C (14° to 140°F) and is tested for functional operation @ -20°C to 70°C (-4°F to 158°F)
- Port1 4 support IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- 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.

Plug & Play

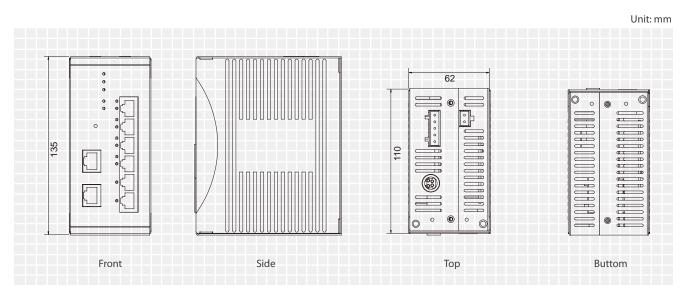
This unmanaged Industrial Ethernet Switch is designed for the demanding industrial environments at businesses in need of instant connectivity with no setup or configure required, truly plug and play.

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. Plus, it is the E-Mark complied to ensure reliability at rolling stock applications. It's highly reliability and safety measurement to ensure field hardened, especially for the harsh environment.

- Alarms for power and port link failure by relay output
- Redundant power inputs with Terminal Block and DC Jack
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment
- Complies with NEMA TS2 Environmental requirements for Traffic control equipment
- 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX

Diagrams



Specifications

Technology		Environment	
Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/FX,	Operating	 -10°C to 60°C (14°F to 140°F)
	IEEE802.3x, IEEE802.3af	Temperature	Tested @ -20°C to 70°C (-4°F to 158°F)
Forward and Filtering Rate	14,880pps for 10Mbps	Storage	■ -40°C to 85°C (-40°F to 185°F)
	148,810pps for 100Mbps	Temperature	
Packet Buffer Memory	1M bits	Ambient Relative	5% to 95% (non-condensing)
Processing Type	Store-and-Forward	Humidity	
	Half-duplex back-pressure and IEEE802.3x full-duplex	MTBF	29.44 years
	flow control		
Address Table	1024 MAC addresses	Regulatory A	pprovals
Size		ISO	Manufactured in an ISO9001 facility
Power		Cofoty	- LII 500 (Dandias)
Power Input	Redundant power inputs:	Safety	UL508 (Pending)
	Terminal Block: 47 - 55VDC		
	DC Jack: 47 - 55 VDC	EMI	 FCC Part 15, Class A, VCCI EN61000-6-4 EN55022 EN61000-3-2 EN61000-3-2
Power Consumption	Device: Max. 10W (without PoE)		
	PoE power budget (depends on power input):		
	61.6W Max.		- EN61000-3-3
		EMS	 EN61000-6-2 EN61000-4-2 (ESD Standards)
PoE Power Output	Port 1 to 4		Contact: + / - 4KV; Criteria B Air: + / - 8KV; Criteria B
	IEEE802.3af: up to 15.4W/port, 47 - 55VDC, 350mA Max		
Supports ove	rload current protection		- EN61000-4-3 (Radiated RFI Standards)
	erse polarity protection		10V/m, 80 to 1000MHz; 80% AM Criteria A 3V/m, 1400 to 2000MHz; 80% AM Criteria A
Mechanical			1V/m, 2000 to 2700MHz; 80% AM Criteria A - EN61000-4-4 (Burst Standards)
Casing	Aluminum case		 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 EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteri D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% A Criteria A EN61000-4-8 (Magnetic Field Standards)
	■ 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			30A/m @ 50, 60Hz; Criteria A
Ethernet Port	■ 10/100BASE-TX: 8, 7 or 6 ports	Environmental Test Compliance	 IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) IEC60068-2-7 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.)
	■ 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		
Alarm Contact	One relay output with current 1A @ 24VDC		

Order Information

IES-0812 - 4 x 802.3af + 3 FE+ 1 MM SC Unmanaged Switch -10 to 60C, DIN-rail

Package Contents

IES-0812 Quick Installation Guide