



COInfinity

IES-0920 8 FE + 1 MM SC Unmanaged Switch -40 to 75, DIN-rail

Overview

LevelOne IES-0920 Industry Ethernet Switch provides 8 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.

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.

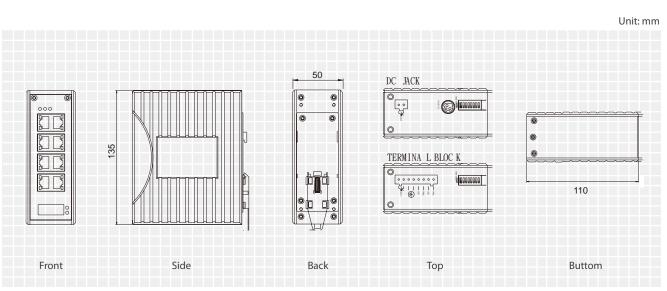
Oil & Gas Hazardous Application

Comply with Class 1, Division 2 certified, UL 1604 standard (UL ISA12.12.01) is a higher level certification to assure that products can be safely operated where specific potentially flammable or explosive materials may be present. Sparks can be highly dangerous in the presence of specific flammable gases, vapors or liquids; such as oil and gas refinery, as well as companies that deal with hazardous chemicals.

Features

- Provides flexibility of 9 Ethernet ports that configure in combinations of copper and fiber optic interfaces
- Supports 10/100Mbps-Full/Half-duplex, Auto-Negotiation, Auto-MDI/MDIX
- Redundant power inputs(12 48VDC) with Terminal Block and DC Jack (12VDC)
- Alarms for power and port link failure by relay output
- -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)

Diagrams



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. It's highly reliability and safety measurement to ensure field hardened, especially for the harsh environment.

- Provides DIN-rail or panel mounting
- Complies with NEMA TS2 Environmental requirements for Traffic control equipment
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment

Specifications

Technology		
Standards	IEEE802.3 10BASE-T, IEEE802.3u 100BASE-	
	TX/100BASE-FX,IEEE802.3x	
Forward and Filtering Rate	14,880pps for 10Mbps	
	148,810pps for 100Mbps	
Packet Buffer Memory	768K bits	
Processing Type	Store-and-Forward	
	 Half-duplex back-pressure and IEEE802.3x full-duplex flow control 	
Address Table Size	2048 MAC addresses	

Environment	
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)
Ambient Relative Humidity	■ 5% to 95% (non-condensing)
MTBF	62.16 years

Size		ISO	 Manufactured in an ISO9001 facility
		Safety	- UL508
Power			
Input	Input Voltage: 12 to 48VDC (Terminal Block);	EMI	 FCC Part 15, Class A, VCCI EN61000-6-3 EN55022 EN61000-3-2 EN61000-3-3
	12VDC (DC Jack)		
Power Consumption	■ 6.3W Max. 0.48A @ 12VDC, 0.24A @ 24VDC		
	0.13A @ 48VDC		
Overload Current Protection	Present	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
Reverse Polarity Protection	Present		
Mechanical			3V/m, 1400 to 2000MHz; 80% AM Criteria A 1V/m, 2000 to 2700MHz; 80% AM Criteria A
Casing	Aluminum case		 EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV; Criteria B D.C. Power Ports: + / - 4KV; Criteria B EN61000-4-5 (Surge Standards)
Dimensions	= 50mm (W) x 110mm (D) x 135mm (H)		
	(1.97" (W) x 4.33" (D) x 5.31" (H))		Signal Ports: + / - 1KV; Line-to-Line; Criteria B
Weight	■ 0.8Kg (1.76lbs.)		D.C. Power Ports: + / - 0.5KV; Line-to-Earth; Criteria E - EN61000-4-6 (Induced RFI Standards)
Installation	DIN-Rail (Top hat type 35mm), Panel Mounting		Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM Criteria A D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM
Interface			Criteria A - EN61000-4-8 (Magnetic Field Standards)
Ethernet Port	■ 10/100BASE-TX: 8, 6, 5 or 4 ports		30A/m @ 50, 60Hz; Criteria A
	100BASE-FX: 0, 1, 2 or 4 ports	Environmental	
LED Indicators	Per Unit: Power Status (Power 1, Power 2, Fault)	Test	
	Per Port: 10/100TX, 100FX: Link/Activity (Green),	Compliance	
	Speed (Yellow)		
Alarm Contact	One relay output with current 1.5A @ 24VDC		

Regulatory Approvals

Order Information

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Package Contents IES-0920

Quick Installation Guide