



IES-0512

4 x 802.3af + 1 MM SC Unmanaged Switch

-10 to 60C, Desktop

Overview

LevelOne IES-0512 Industry Ethernet Switch provides 4 PoE ports of 10/100Base-TX 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.

Compact & Fanless

The housing is designed with small footprint, it can be installed on the desktop or wall mount, and ideally suited for the limited available space; It is also leveraging a reliable fanless and durable housing which is more efficient and immune to dust.

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

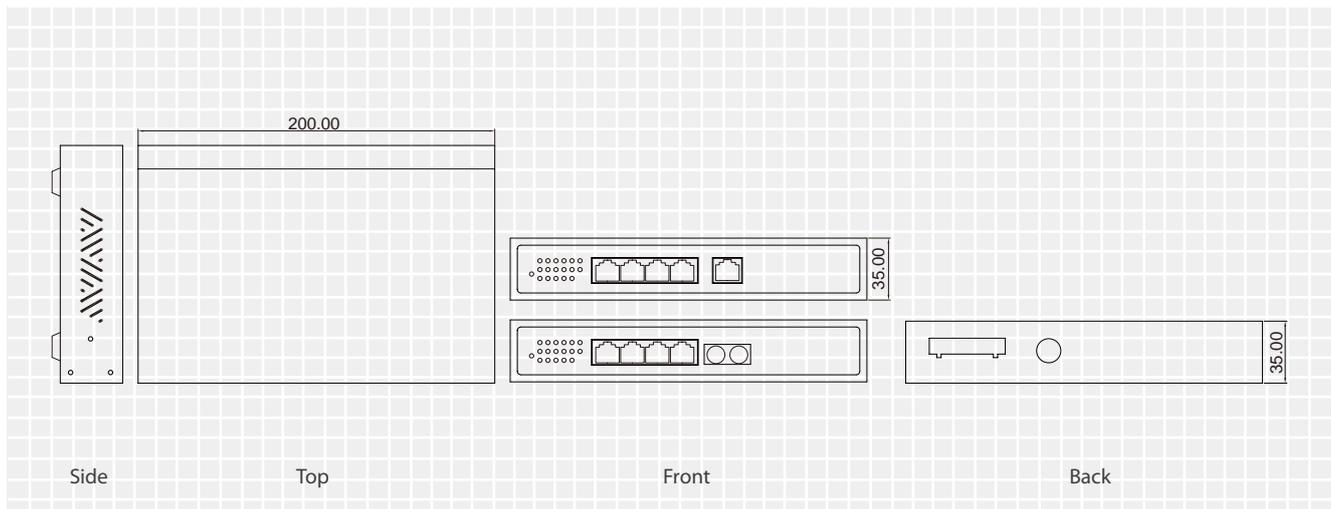
This device has been tested under UL508 standard for Industrial Control Equipment to endurance under test turn on and off 6,000 times while loaded, with no single failure; also with NEMA (National Manufacturers Association) TS2 Environmental certified for the Traffic Control Equipment that withstand extreme temperatures, operating voltage and humidity fluctuation, vibration and shock commonly experienced in severe outdoor environments.

Features

- Provides flexibility of 5 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)
- Port1 - 4 supports IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- Provides wall and desktop mounting
- 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	<ul style="list-style-type: none"> IEEE802.3 10BASE-TX, IEEE802.3u 100BASE-TX/FX, IEEE802.3x, IEEE802.3af
Forward and Filtering Rate	<ul style="list-style-type: none"> 14,880pps for 10Mbps 148,810pps for 100Mbps
Packet Buffer Memory	<ul style="list-style-type: none"> 512K bits
Processing Type	<ul style="list-style-type: none"> Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	<ul style="list-style-type: none"> 1024 MAC addresses

Power	
Power Input	<ul style="list-style-type: none"> Redundant power inputs: Terminal Block: 47 - 55VDC DC Jack: 47 - 55VDC
Power Consumption	<ul style="list-style-type: none"> Device: Max. 10W (without PoE) PoE power budget (depends on power input): 61.6W Max.
PoE Power Output	<ul style="list-style-type: none"> Port 1 to 4 IEEE802.3af: up to 15.4W/port, 47 - 55VDC, 350mA Max
<ul style="list-style-type: none"> Supports overload current protection Supports reverse polarity protection 	

Mechanical	
Casing	<ul style="list-style-type: none"> Aluminum case IP30
Dimensions	<ul style="list-style-type: none"> 200mm (W) x 134.3mm (D) x 35mm (H) (7.87" (W) x 5.29" (D) x 1.38" (H))
Weight	<ul style="list-style-type: none"> 0.8Kg (1.76lbs.)
Installation	<ul style="list-style-type: none"> Wall, Desktop Mounting

Interface	
Ethernet Port	<ul style="list-style-type: none"> 10/100BASE-TX: 5 or 4 ports 100BASE-FX: 0 or 1 ports
LED Indicators	<ul style="list-style-type: none"> Per Unit: Power Status: Power 1, 2, 3 (Green), Fault (Red) Per Port: 10/100TX, 100FX: Link/Activity (Green)
Alarm Contact	<ul style="list-style-type: none"> One relay output with current 1A @ 250VAC

Environment	
Operating Temperature	<ul style="list-style-type: none"> -10°C to 60°C (-14°F to 140°F) Tested @ -20°C to 70°C (-4°F to 158°F)
Storage Temperature	<ul style="list-style-type: none"> -40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	<ul style="list-style-type: none"> 5% to 95% (non-condensing)
MTBF	<ul style="list-style-type: none"> 36.34 years

Regulatory Approvals	
ISO	<ul style="list-style-type: none"> Manufactured in an ISO9001 facility
Safety	<ul style="list-style-type: none"> UL508 (Pending)
EMI	<ul style="list-style-type: none"> FCC Part 15, Class A EN61000-6-4 <ul style="list-style-type: none"> EN55022 EN61000-3-2 EN61000-3-3
EMS	<ul style="list-style-type: none"> EN61000-6-2 <ul style="list-style-type: none"> EN61000-4-2 (ESD Standards) Contact: + / - 6KV; 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
Environmental Test Compliance	<ul style="list-style-type: none"> 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

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Package Contents

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Quick Installation Guide