





IES-1611

15 FE + 1 MM SC Unmanaged Switch -10 to 60, DIN-rail

Overview

LevelOne IES-1611 Industry Ethernet Switch provides 15 ports of 10/100Base-TX Ethernet plus 1 port 100Base-FX MM 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.

Reliability

Rugged IP30 rated metal housing is designed for industrial applications. With protection against ingress of dirt and solid metal housing to ensure a long-last operating life under harsh environments.

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.

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.

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.

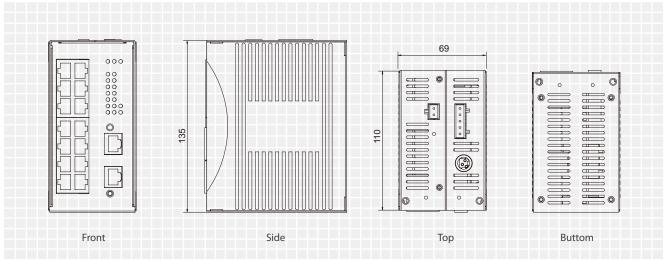
Features

- Provides flexibility of 15 10/100BASE-TX ports and 1 100BASE-FX port
- 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 failure by relay output

- -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)
- Provides DIN-rail, panel or rack mounting
- Complies with IEC61000-6-2 EMC Generic standard immunity for Industrial environment

Diagrams

Unit: mm



Specifications

■ IEEE802.3 10BASE-T, IEEE802.3u 100BASE- TX/100BASE-FX, IEEE802.3x
■ 14,880pps for 10Mbps ■ 148,810pps for 100Mbps
■1.625M bits
 Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
■ 4096 MAC addresses
■Less than 10µs

Power	
Input	■ Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	■7.4W Max. 0.6A @ 12VDC, 0.3A @ 24VDC, 0.15A @ 48VDC
Overload Current Protection	■ Present
Reverse Polarity Protection	■ Present
Mechanical	
Casing	■ Metal case

Casing	■ Metal case ■ IP30	
Dimensions	■ 69mm (W) x 110mm (D) x 135mm (H) (2.72" (W) x 4.33" (D) x 5.31" (H))	
Weight	■ 0.87Kg (1.92lbs.)	
Installation	■ DIN-Rail (Top hat type 35mm), Panel, Rack Mounting	
Interface		
Ethernet Port	■ 10/100BASE-TX: 16, 15 or 14 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	
Alarm Contact	■ One relay output with current 1A @ 24VDC	

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	■ 59.96 years

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Regulatory Approvals			
ISO	■ Manufactured in an ISO9001 facility		
Safety	■ UL508		
EMI	■ FCC Part 15, Class A, VCCI ■ EN61000-6-4 - EN55022 - EN61000-3-2 - EN61000-3-3		
EMS	■ EN61000-6-2 - 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	■ 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 IES-1611

Quick Installation Guide