

COInfinity IES-1610

16 FE Unmanaged Switch -10 to 60, DIN-rail

Quick Installation Guide

Overview

LevelOne IES-1610 Industry Ethernet Switch provides 16 ports of 10/100Base-TX Ethernet to enable high speed network at missioncritical 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.

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

IES-1610

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.

v1.00 - 1206

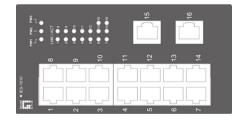
Features

- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment.
- Supports IEEE802.3/802.3u/802.3x. Auto-negotiation: 10/100Mbps, Full/Halfduplex, Auto-Negotiation, Auto MDI/MDIX.
- 100Base-FX: Multi/Single mode SC or ST type, WDM Single mode SC type.
- Supports 4096 MAC addresses. Provides 1.625M bits buffer memory.
 Alarms for power failure by relay output 1A @ 24/DC
- Alarms for power failure by relay output 1A @ 24VDC.
 Power Supplies: Redundant 12-48VDC Terminal Block power inputs and 12VDC
- DC JACK with 100-240VAC external power supply.
- Field Wiring Terminal: Use Copper Conductors Only, 60/75 , 12-24 AWG torque value 7 lb-in.
 Operating voltage and Max. current consumption: 0.7A @ 12VDC, 0.35A @
- Operating vortage and wax, current consumption: 0.7A @ 12VDc, 0.35A @ 24VDc, 0.175A @ 48VDC. Power consumption: 8.4W Max.
 Operating tomperature reages from 10, 15 (0, 114, 15, 140, 141, 150).
- Operating temperature ranges from -10 to 60 (14 to 140). UL508 Industrial Control Equipment certified Maximum Surrounding Air Temperature @ 60 (140).
- For use in Pollution Degree 2 Environment.Supports Din-rail or Panel Mounting installation.

Package Contents

- § IES-1610
- § Quick Installation Guide

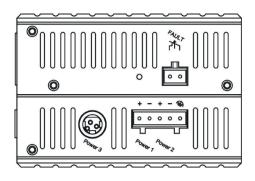
LED Status



LED	Status	Description
PW 1,2,3	Steady	Power On
1 1 1,2,3	Off	Power Off
10/100Base-TX or 100Base-FX		
LNK/ACT	Steady	Network connection is established
(Green)	Flashing	Transmitting or Receiving data

Page 1

Power Input



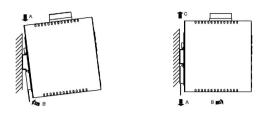
Ferminal Block	Power1	+	12 – 48VDC	
		-	Power Ground	
	Power2	+	12 – 48VDC	
		-	Power Ground	
	÷	Earth Ground		
	¥	Relay Output		
	 The relay contact closes if Power1 or Power2 falls The relay contact closes if Power3 is failed but both Power1 and Power2 are 			

Power3: 12VDC DC Jack Input type

IES-1610

Page 4

DIN Rail Mount



- Assembly: Place the switch on the DIN rail from above using the slot. Push the front of the switch toward the mounting surface until it audibly snaps into place
- Start-up: Connect the supply voltage to start up the switch via the terminal block (or DC JACK)
- Dismantling: Pull out the lower edge and then remove the switch from the DIN rail.

IES-1610

Page 5

10/100Base-TX Connector

The following lists the pin-out of 10/100Base-TX ports.

Pin 8	
Pin 7	
RD- Pin 6	
Pin 5	_ 두 니
Pin 4	
RD+ Pin 3	
TD- Pin 2	
TD+ Pin 1	

Pin	Standard Port	Uplink Port
1	Output Transmit Data +	Input Receive Data +
2	Output Transmit Data -	Input Receive Data -
3	Input Receive Data +	Output Transmit Data +
4	NC	NC
5	NC	NC
6	Input Receive Data -	Output Transmit Data -
7	NC	NC
8	NC	NC

100Base-FX Connection



The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.

WDM 100Base-BX Connection



Only one optical fiber is required to transmit and receive data