

ORing

Quick Installation Guide

Introduction

IES-1080A is unmanaged Ethernet Switch with 8x10/100Base-T(X) ports and extended operating temperature range from -40°C to 75°C for the harsh environments. The enclosure designed with compact size and a robust housing; it can help you to easily installed.

Features

- > Support 8 ports 10/100Base-T(X)
- > Support auto-negotiation and auto-MDI/MDI-X
- > Support store and forward transmission
- > Support flow control
- > Provide Relay output
- > Compact size for easily installation
- > Rigid IP-30 housing design
- > DIN-Rail and wall mounting enable

→ Package Contents

The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

Contents	Pictures	Number
IES-1080A	ELLINING TO STATE OF THE STATE	X 1
DIN-rail Kit		X 1
Wall-mount Kit		X 2
QIG		X 1
6-pin terminal block		X 1

→ Preparation

Before you begin installing the switch, make sure you have all of the package contents available and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

Safety & Warnings



Elevated Operating Ambient: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.



Reduced Air Flow: Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

IES-1080A

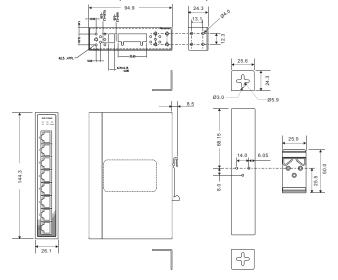
\wedge

Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

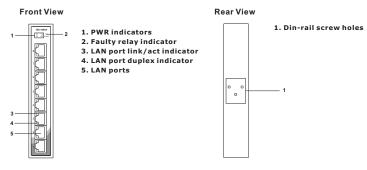


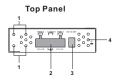
Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Dimension Unit =mm (Tolerance ±0.5mm)



Panel Layouts





1. Wall-mount screw holes

- 2. Terminal blocks: PWR1, PWR2
- 3. DIP Switch
- 4. Ground wire.

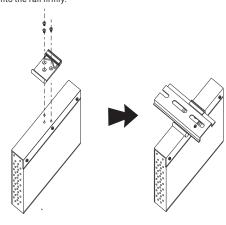
Industrial Unmanaged Switch

Installation

DIN-rail Installation

Step 1: Slant the switch and screw the Din-rail kit onto the back of the switch, right in the middle of the back panel.

Step 2: Slide the switch onto a DIN-rail from the Din-rail kit and make sure the switch clicks into the rail firmly.



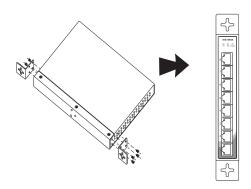
Wall-mounting

Step 1: Screw the wall-mount kit onto the rear panel of the switch. A total of six screws are required, as shown below.

Step 2: Use the switch, with wall mount plates attached, as a guide to mark the

correct locations of the four screws.

Step 3: Insert a screw head through the large parts of the keyhole-shaped apertures, and then slide the switch downwards. Tighten the screws for added stability.



Network Connection

The switch provides standard Ethernet ports. According to the link type, the switch uses CAT 3,4,5,5e UTP cables to connect to any other network devices (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

Cable Types and Specifications:

Cable	Туре	Max. Length	Connector
10BASE-T	Cat. 3, 4, 5 100-ohm	UTP 100 m (328 ft)	RJ-45
100BASE-TX	Cat. 5 100-ohm UTP	UTP 100 m (328 ft)	RJ-45



Quick Installation Guide

IES-1080A

Industrial Unmanaged Switch

For pin assignments for different types of cables, please refer to the following tables.

10/100Base-T(X) RJ-45	
Pin Number	Assignment
1	TD+
2	TD-
3	RD+
4	Not used
5	Not used
6	RD-
7	Not used
8	Not used

Note: "+" and "-" signs represent the polarity of the wires that make up each wire pair.

DIP Switch Setting

DIP-1	DIP-2	Description	
OFF	OFF	Power failure relay alarm disabled	
ON	OFF	PWR-1 failure, relay alarm enabled	
OFF	ON	PWR-2 failure, relay alarm enabled	
ON	ON	PWR-1 or PWR-2 failure, relay alarm enabled	

Wiring

Power inputs

The switch supports dual redundant power supplies, Power Supply (PWR1) and Power Supply 2 (PWR2). The connections for PWR1, PWR2 and the RELAY are located on the terminal block.

STEP 1: Insert the negative/positive wires into the V-/V+ terminals, respectively.

STEP 2: To keep the DC wires from pulling loose, use a small flatblade screwdriver to tighten the wire-clamp screws on the front of the terminal block connector.



Relay contact

The two sets of relay contacts of the 6-pin terminal block connector are used to detect userconfigured events. The two wires attached to the fault contacts form an close circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains opened.

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screws to the grounding surface prior to connecting devices.

Configurations

After installing the switch, the green power LED should turn on. Please refer to the following tablet for LED indication.

LED	Color	Status	Description
P1	Green	On	DC power 1 activated
P2	Green	On	DC power 2 activated
Fault	Amber	On	Power failure
10/100Base-T(X) Ethernet ports			
LNK/ACT	Green	On	Port is linked
Duplex		On	Port link up for full duplex
	Amber	Off	Port link up for half duplex

Specifications

ORing Switch Model	IES-1080A	
Physical Ports		
10/100Base-T(X) Port in RJ45		
Auto MDI/MDIX	8	
Technology		
Ethernet Standards	IEEE 802.3 for 10Base-T, IEEE 802.3u for 100Base-TX IEEE 802.3x for Flow control	
MAC Table	1K	
Packet buffer	448 Bits	
Processing	Store-and-Forward	
Switch Properties	Switching latency: 7 us Switching bandwidth: 1.6Gbps Throughput (packet per second): 1.19Mpps@64Bytes packet	
LED Indicators		
Power indicator	Green: Power LED x2	
Fault indicator	Amber: Indicate PWR1 or PWR2 failure	
10/100Base-T(X) RJ45 Port Indicator	Upper LED for Link/Act indicator: Green for Link/Act Lower LED for duplex indicator, Amber for full duplex, off for half duplex	
Fault contact		
Relay	Relay output to carry capacity of 1A at 24 VDC	
Power		
Redundant Input power	Dual 12~48VDC on 6-pin terminal block	
Power consumption(Typ.)	<3.7Watts, 0.23A-0.07A	
Overload current protection	Present	
Reverse polarity protection	Present	
Physical Characteristic		
Enclosure	IP-30 Metal	
Dimension (W x D x H)	26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.)	
Weight (g)	391 g	
Hardware Version	V2.0	
Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-40 to 75°C (-40 to 167°F)	
Operating Humidity	5% to 95% Non-condensing	
Regulatory approvals		
EMC	CE EMC (EN 55024, EN 55032), FCC Part 15 B	
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A	
EMS	EN 55024 (IEC/EN 61000-4-2 (ESD: Contact 4KV, Air 8KV), IEC/EN 61000-4-3 (RS: 3 IEC/EN 61000-4-4 (EFT Power 0.5KV, Signal 0.5KV), IEC/EN 61000-4-5 (Surge: Power 0.5KV, Signal 1kV), IEC/EN 61000-4-6 (CS: 3V), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11 (DIP))	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
Safety	EN60950-1(LVD)	
мтвғ	2,439,118hrs	

