## Quick Installation Guide

## :Introduction

IES-1142P is an unmanaged Ethernet switch with fourteen 10/100Base(X) LAN ports and two 100Base-FX SFP ports. The SFP ports can meet demand for long-distance data transmission. Besides a high port density, the
device comes with two power inputs to provide power redundancy. When the device comes with two power inputs to provide power redundancy. When th
primary DC power input fails, the backup power input will take over primary $D C$ power input fails, the backup power input will take over immediately to guarantee a non-stop operation. With a wide operating temperature range from $-40^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$, the device can work reliably in harsh environments.

## :Package Contents

The series are 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-1142P | a | $\mathrm{x}_{1}$ |
| DIN-rail Kit |  |  |
| QIS |  | $\mathrm{x}_{1}$ |

## :'Preparation

 Before you begin installing the device, make sure you have all of the packagecontents 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 environment, make sure the operating ambient temperature is compatible with the maximum mbient temperature ( $T$ ma) specified by the manufacturer
$\triangle$
Reduced Air Flow: Make sure the amount of air flow required for safe operation
Reduced Air flow: Make sure the amount of air flow requ.
of the equipment is not compromised during installation.

1. Mechanical Loading: Make sure the mounting of the equipment is not in a
2. hazardous condition 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 onsideration of equipment nameplate ratings should be used when addressing this concern.

- Dimension

- Panel Layouts

Front View


Rear View


## 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: Sli
rail firmy.


## - Network Connection

The device has standard Ethernet ports. According to the link type, the switch uses CAT 3, 4, 5,5 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 | Type | Max. Length | Connector |
| :--- | :--- | :---: | :---: |
| 100ASE-T | Cat. $3,4,5100$-hhm | UTP $100 \mathrm{~m}(328$ ft $)$ | RJ-45 |
| 1008ASE-TX | Cat. 5100 -ohm UTP | UTP $100 \mathrm{~m}(328$ ft $)$ | RJ-45 |

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

| 10/100 Base-T(X) R-45 |  | 10/100 Base-T(X) MD/MOI-X |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Pin Number | Assignment | Pin Number | MOI port | Mol-X port |
| 1 | T0+ | 1 | Tot(transmit) | RD+(receive) |
| 2 | тD. | 2 | TD.(transmit) | RD-(receive) |
| 3 | RD+ | 3 | RD+freceive) | TD+(transmit) |
| 4 | Not used | 4 | Not used | Not used |
| 5 | Not used | 5 | Not used | Notused |
| 6 | RD- | 6 | RD-(receive) | T-(transmit) |
| 7 | Not used | 7 | Not used | Not use |
| 8 | Not used | 8 | Not used | Not used |

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SFP Connection
The device supports fiber connection via SFP transceivers which are hot-swappable and can be plugged into the SFP ports to connect the switch with the fiber-optic RX port of Switch B.


- Wiring

Power inputs
The switch supports dual redundant power supplies, Power Supply 1 (PWR1) and Power Supply 2 (PWR2). The connections for PWR1 and PWR2 are located on the terminal block.
STEP 1: Insert the negative/positive wires into the V-/V+terminals, respectively.
STTP 2: To keep the wirise from puling loose, use a small flat-blade screwdriver to tighten the wire-clamp screws on the front of the connector

Grounding
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.



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ORing Industrial Networking Corp.
TEL: $+886-2-2218-1066$
FAX: $+886-2-2218-1014$$\quad \begin{aligned} & \text { Website: www.oring-networking.com } \\ & \text { E-mail: support@oring-networking.com }\end{aligned}$


[^0]:    Note: " + " and " "" signs represent the polarity of the wires that make up each
    wire pair.

