## Quick Installation Guide

## :Introduction

The IGPS-9842GTP Series is a full-Gigabit managed PoE Ethernet switches with eight 10/100/1000Base-T(X) P.S.E. ports, four 10/100/1000Base-T(X) ports, and two 100/1000Base-X SFP ports. With complete support for
Ethernet redundancy protocols such as O-Ring (recovery time $<30 \mathrm{~ms}$ ove 250 units of connection) and MSTP (RSTP/STP compatible), the device 250 units of connection) and MSTP (RSTP/STP compatible), the devic
can protect mission-critical applications from network interruptions or can protect mission-critical applications from network interruptions o
temporary malfunctions with fast recovery technology. With EN50155 compliance, the device guarantees reliable operation against
environmental disturbances, such as vibration and shock, and are ideal for rolling stock applications. The device features eight 10/100/1000Base$T(X)$ P.S.E. ports which are able to provide sufficient power for those powerhungry devices with up to 30 W per port. With a wide operating temperature from $-40^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$, the device can be managed centralized via ORing's proprietary Open-Vision manage utility as well as via Web-based

## :- 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 |
| :---: | :---: | :---: |
| IGPS-9842GTP / IGPS-9842GTP-24V |  | x1 |
| CD |  | x 1 |
| DIN-rail Kit | $y$ | x 1 |
| Wall-mount Kit | $\because$ | x2 |
| Console Cable | $()^{-3}$ | x1 |
| Q16 | $\pm$ | x1 |

## 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 \& Warning

Elevated Operating Ambient: If installed in a closed or multi-unit rack greater than room ambient. Therefore, consideration should be given to greater than room ambient. Therefore, consideration should be given to ambient temperature ( $T$ ma) specified by the manufacturer
Reduced Air Flow: Installation of the equipment in a rack should be such that the amount of

Mechanical Loading: Mounting of the equipment in the rack should be such that 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 namelate ratings should be used and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

## - Dimension



- Panel Layouts


1. Wall-mount screw hole

## -Installation

- DIN-rail Installation

Step 1 : Slant the switch and screw the Din-rail kit onto the back of the switch, right in the
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
tep 1: Screw the two pieces of wall-mount kits onto both ends of the rear panel of the switch. A total of six screws are required, as shown below.
Step 2 : Use the swith, with wall mount plates antached, as a guide to mark the
corre orrect locations of the four screws. Step 3: Insert screws through the round screw holes (the red arrow as below) on the
sides or through the cross-shaped aperture (the green arrow as below) in the middle of the plate and fasten the screw to the wall with a screwdriver.
Step 4: If the screw goes through the cross-shaped aperture, slide the switch before tightening the screw


- Network Connection

The switch provides standard Ethernet ports. According to the link type, the switch uses CAT $3,4,5,5$ e 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 |
| :---: | :---: | :---: | :---: |
| 10BASE-T | Cat. 3, 4, 5100-ohm | UTP 100 m (328 fi) | ${ }^{\text {RJ, }} 4$ |
| 1008ASE-TX | Cat. 5100-ohm UTP | UTP 100 m (328 fit) | RJ-45 |
| 1000BASE-T | Cat. 5 / Cat. 5e 100-ohm UTP | UTP 100 m (328 ft) | RJ.45 |

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


Note: "+" and "-" signs represent the polarity of the wires that make up each Console Port Pin Definitio
To connect the console port to an external management device, you need an RJ-45 to DB- 9 cable, which is also supplied in the package. Below is the console port pin

| ) pin asisgnment | RS-232 with DB9 (female) pin assignment (RJ45-DB9 cable) | R.445 pin assignment |
| :---: | :---: | :---: |
| PIN\#2 RxD | PN(\#\#2 RxD | PIN\#2 RxD |
| PINH3 x ( | PINH3 $7 \times 0$ | Pin+3 ${ }^{\text {T }}$ |
| PN(H5 GND | PN\#5 5 GND | PNHF5 GND |

- Wiring

Power inputs
The switch supports dual redundant power supplies, Power Supply 1 PWR1) and Power Supply 2 (R PWR2 and the RELAY are located on the terminal block.
STEP 1: Insert the negative/positive wires into the $V$ -
 blade screwdriver to tighten the wire-clamp screws on the front of the
eerminal block connector.
elay 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 open circuit when a
 fault circuit remains closed.

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

## Configurations

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


Follow the steps to set up the switch

1. Launch the . 192.168.10.

2. Log in with default user name and password (both are admin). After logging in, you should
see the following screen. For more information see configurations, please refer to the user manual. For information on operating the switch using ORing's Open-Vision management utility,


Resetting
To ret the switch press the Reset button for $2-3$ second
To restore the switch configurations back to the factory defaults, press the Reset button for 5 seconds.

## Specifications

| oring switch Model | IGps-98426TP | IGpS-98426т-24V |
| :---: | :---: | :---: |
| Physical Port |  |  |
|  |  |  |



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GPS-9842GTP Series

