## ndustria

## Quick Installation Guide

## :Introduction

The IGS-9122GPM is a modular managed industrial Ethernet switch with twelve 10/100/1000Base-T(X) ports and two 100/1000Base-X SFP ports. capacity to handle huge workloads. The SFP ports can meet demand for long-distance data transmission. The switch comes with two modular slots to provide more Ethernet ports. The modules support hot-swap installation; therefore, you don't need to power off the switch when replacing the module. The switch also supports Ethernet Redundancy protocol, O-Ring
(recovery time < 30 ms over 250 units of connection) and MSTP (RSTP/STP (recovery time < 30 ms over 250 units of connection) and MSTP (RSTP/STP
compatible) to protect mission-critical applications from network
interruptions or temporary malfunctions with fast recovery technology. With a wide operating temperature from $-40^{\circ} \mathrm{C}$ to $75^{\circ} \mathrm{C}$, the device can be managed centrally via Oring's proprietary Open-Vision platform as well as via Web-based interfaces, Telnet, and console (CLI). The switch is one of the most reliable choices for highly-managed and fiber Etherne applications.

## : Package Contents

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

| Contents | Pictures | Number |
| :--- | :---: | :---: |
| IGS-9122GPM |  |  |
| CD |  | $x_{1}$ |
| DIN-rail Kit |  | $x_{1}$ |
| Console Cable |  | $x_{1}$ |
| QIG |  | $x_{1}$ |

## $\because$ Preparation

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

## - Safety \& Warning

1. 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 instaing the equipment in an environment compatible with
2. 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.

## IGS-9122GPM

$\triangle$
Mechanical Loading: Mounting of the equipment in the rack should be such that Mechanical Loading: Mounting of the equipment in the rack should be
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



Panel Layouts
Front View


1. Wall-mount screw holes
2. Din-rail screw holes

Industrial Modular Managed Gigabit 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 Step 2: Slide the switch onto a DIN-rail from the Din-rail kit and make sure the switch clicks Step 2: Slide the s.
into the rail firmy.


Network Connection
The switch provides 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 | Type | Max. Length | Connector |
| :---: | :---: | :---: | :---: |
| 10BASET | Cat. 3, 4, 5100-ohm | UTP 100 m (328 fi) | RJ.45 |
| 1008ASETX | Cat. 5100-ohm UTP | UTP 100 m (328 fi) | RJ.45 |
| 1000 | Cat. $5 / \mathrm{Cat} .5 \mathrm{se} \mathrm{100-ot}$ | UTP $100 \mathrm{~m}(328 \mathrm{ft})$ |  |

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

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


| 1000Base-T RJ-45 Port |  |
| :---: | :---: |
| Pin Number | Assignment |
| 1 | Bl_DA+ |
| 2 | BI_DA- |
| 3 | Bl_DB+ |
| 4 | B1_DC+ |
| 5 | Bl_DC- |
| 6 | BI_DB- |
| 7 | BI_DD+ |
| 8 | BI_DD- |


| 10/100 Base-T(X) Mol/mol-X |  |  |
| :---: | :---: | :---: |
| Pin Number | MOI port | Mol-x port |
| 1 | TD+(transmit) | RD+(receive) |
| 2 | TD.(transmit) | RD-(reeive) |
| 3 | RD+(receive) | TD+(transmit) |
| 4 | Not used | Not used |
| 5 | Not used | Not used |
| 6 | RD-(receive) | TD-(transmit) |
| 7 | Not used | Not used |
| 8 | Not used | Not used |


| 10008ase-TMD/MDI-X |  |  |
| :---: | :---: | :---: |
| Pin Number | Mol port | mol-x port |
| 1 | Bl_DA+ | Bl_DB+ |
| 2 | BI_DA- | Bl_DB- |
| 3 | ${ }_{\text {Bl_DB+ }}$ | Bl_DA+ |
| 4 | ${ }^{\text {Bl_DC+ }}$ | ${ }^{\text {BI_DD }}$ |
| 5 | Bl_DC. | BI_DD |
| 6 | Bl_DB. | BIIDA- |
| 7 | ${ }_{\text {Bl_D }+}$ | Bl_DC+ |
| 8 | Bl_DO- | Bl_DC- |

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Console Port Pin Definition
To connect the console port to anternal management device, you need an $R J-45$ to
DB- 9 cable, which is also supplied in the package. Below is the console port pin DB-9 cable, which is also supplied in the package. Below is the console port pin

| PC (male) pin assignment | RS-232 with DB9 (female) pin assignment (RJ45-DB9 cable) | RJ45 pin assignment |
| :---: | :---: | :---: |
| PIN\#2 RxD | PIN\#2 RxD | PIN\#2 RxD |
| PIN\#3 TxD | PIN\#3 TxD | PIN\#3 TxD |
| PIN\#5 GND | PIN\#5 GND | PINH5 GND |

- Wiring

Power inputs
The switch supports dual redundant power supplies, Power Supply
(PWR1) and Power Supply (PWR2) The WR2 and the RELAY are located on the terminal block for PWR1, 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 flat-
blade screwdriver to tighten the wire-clamp screws on the front of the
terminal block connector.
elay contact
The two sets of relay contacts of the 6 -pin terminal block connector are used to detect user configured events. The two wires attached to the fault contacts form an open circuit when ser-configured when an event is triggered. If a user-configured event does not occur, the
ault circuitr remains closed. fault circuit remains closed.

## :- Configurations

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


## Switch


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

