## Quick Installation Guide

## :Introduction

The RES-9242GC is a rackmount managed Ethernet switch designed for industrial applications, such as rolling stock, vehicle, and railway applications. Featuring twenty-four 10/100Base-T(X) ports and two Gigabit combo ports, the device is able to meet the needs for high port density and high-speed, long-distance transmission. With complete support for Ethernet
redundancy protocols such as 0 -Ring (recovery time $<30 \mathrm{~ms}$ over 250 units of redundancy protocols such as $O$-Ring (recovery time $<30 \mathrm{~ms}$ over 250 units of connection) and MSTP (RSTP/STP compatible), the series can protect you mission-critical applications from network interruptions or temporary
mallunctions with its fast recovery technology Featuring a wide operati temperature from $-40^{\circ} \mathrm{C}$ to $75^{\circ} \mathrm{C}$, the device can be managed centrally and conveniently via Open-Vision, web browsers, Telnet and console (CLI) configuration, making it one of the most reliable choice for highly-managed and Fiber Ethernet power substation and rolling stock application.

## : 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

| Contents | Pictures | Number |
| :---: | :---: | :---: |
| RES.92266C | $\square$ | ${ }^{1} 1$ |
| Console Cable |  | $\times 1$ |
| ${ }^{\text {co }}$ | $4$ | $\mathrm{x}_{1}$ |
| а16 | $4$ | ${ }^{1} 1$ |
|  | $8$ | ${ }^{1} 1$ |
| Power Cable | (3) | $\times 2$ |

## $\because$ Preparation

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

## - Safety \& Warnings

Elevated Operating Ambient: If installed in a closed or multi-unit rack greater than room ambient. Thereforre, consideration should be given to ay 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 not compromised.

R=S-924.2cc
Rack Mount Managed Ethernet Switch


- Network Connection

The device comes with 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

Cable Types and Specifications:

| Cable | Type | x.te | mector |
| :---: | :---: | :---: | :---: |
| 10BASE-T | Cat. $3,4,51000 \mathrm{ohm}$ | UTP 100 m ( 328 t $)$ | R/-45 |
| 1008AEETX | Cat. 5100.ohm UTP | UTP 100 m ( 288 t) | R1-45 |
| OOOBASET T | at. 5Cat. 5e 100-ohm UTP | UTP 100 m (388t) | RJ-45 |

For pin assignment, please refer to the following tables.


| 1000Bsse-TMO/MOL-XPin Asisigments |  |  |
| :---: | :---: | :---: |
| Pin No. | MO1 port | mol. port |
| 1 | ${ }_{\text {Bloda }}$ | B! $108{ }^{\text {b }}$ |
| 2 | ${ }_{\text {BILDA }}$ | Bl_OB. |
| 3 | B1_D8+ | BlDAA+ |
| 4 | ${ }^{\text {Bl_OC+ }}$ | ${ }^{\text {BI_DO }}$ |
| 5 | Bl_DC. | ${ }^{\text {B1_ }} \mathrm{DO}$ |
| 6 | B1_DB- | Bloda |
| 7 | Bl_DO + | Bloct |
| 8 | 81.00. | Bl_C. |

- Wiring

AC Power Connection
The device can be powered by AC electricity. Simply insert the AC power cable to the power connector at the back of the switch and turn on the power switch. The input voltage is $100 \mathrm{~V} \sim 240 \mathrm{~V} /$
$50 \sim 60 \mathrm{~Hz}$. Grounding
The device provides grounding and wire routing to 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.

RS-232 Console Port Wiring
The device can be managed via the console port using a RS-232 cable which can be found in the package. Connect each end of the RS -232 cable to the switch and a PC respectively.

## Quick Installation Guide

| PC pin out (male) asignment | RS-232 with D89 female connector | D89 to RJ 45 |
| :---: | :---: | :---: |
| Pin \#2 RD | Pin \#2 TD | Pin\#2 |
| Pin \#3 TD | Pin \#3 RD | Pin\#3 |
| Pin 4560 | Pin 4560 | Pin\#5 |



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\because \leftrightarrows=\square
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sfP
The switch comes with two combo ports which include a SFP port that can connect to
other devices using SFP modules. The SFP modules are hot-swappable inputput other devices using SFP modules. The SFP modules are hot-swappable input/outpu
devices that can be plugged into the SFP ports to connect the switch with the fiberdevices that can be plugged into the SFP ports to connect the switch with the fiber-
optic network. Remember that the TX port of Switch A should be connected to the RX port of Switch B.


## :Configurations

After installing the switch and connecting cables, the green power LED should turn on.


1. Launch the Internet Explorer and type in IP address of the switch. The default static P address is 192.168.10.1
Ele Eadt Yew Favortes Iools tap

Address hth://192.166.10.1|
2. Log in with default user name and password (both are admin). After logging in, you should see the
3. Log in with default user name and password (both are admin). After logging in, you should see
following screen. For more information on configurations, please refer to the user manual. For information on operating the switch using ORing's Open-Vision management utility, please go to ORing website.


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



## Oring

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