## desktap <br> $\underset{\text { EWITGH }}{\text { INDUTRIAL }}$ <br> ORing <br> Quick Installation Guide

## :Introduction

The DGS-9812GP-AIO_S series is a managed industrial Ethernet switch with eight $10 / 100 / 1000$ Base- $T(X)$ ports and twelve 100/1000Base-X SFP ports. With two sets of bypass ports that ensure constant network connectivity if power outage or node failure occurs, the device will bypass the inactive switch and continue to transfer network traffic to the next switc in the relay. The switch supports Ethernet Redundancy protocol, O-Ring (recovery time $<30 \mathrm{~ms}$ 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 $70^{\circ} \mathrm{C}$, the device can be via Web-based interfaces, Telnet, and console (CLI). The switch is one of the most reliable choices for highly-managed and fiber Ethernet
applications.

## :- Package Contents

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

| Contents | Pictures | Number |
| :--- | :---: | :---: |
| OGS-9812GP-A10_s |  | $\mathrm{x}_{1}$ |
| CD |  | $\mathrm{x}_{1}$ |
| Console Cable |  | x 1 |
| Q16 |  | $\mathrm{x}_{1}$ |

## :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 \& Warning

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 greater than room ambient. Therefore, consideration should be given to
installing the equipment in an environment compatible with the maximum installing the equipment in an environment compatible with
ambient temperature (Tma) specified by the manufacturer.
Reduced Air Flow: Installation of the equipment in a rack should be such not compromised.
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

1. Circuit Overloading: Consideration shofe the given to the connection of the might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing

## DGS-9812GP-AIO_S

Industrial Desktop Managed Gigabit Switch

## - Dimension



- Panel Layouts



## :- 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
Please refer to the following table for cable specifications,

Cable Types and Specifications:

| Cable | Type | Max. Length | Connetor |
| :---: | :---: | :---: | :---: |
| 10BASE-T | Cat. 3, 4, 5, 100-ohm | UTP 100 m (328 f) | RJ-45 |
| 100BASE-TX | Cat. 5 100 -ohm UTP | UTP 100 m (328 ft) | RJ-45 |
| 1000BASE-T | Cat. 5 Cat. 5e 100-ohm UTP | UTP 100 m (328t) | RJ-45 |

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

| 10008 ase-T R. 4.45 Port |  |
| :---: | :---: |
| Pin Number | Assignment |
| 1 | Bl_Dat |
| 2 | ${ }^{\text {Bl_DA. }}$ |
| 3 | $\mathrm{BlOB}^{+}$ |
| 4 | $\mathrm{Bl}_{1} \mathrm{CC}+$ |
| 5 | Bl_DC. |
| 6 | Bl_DB. |
| 7 | B1_DD+ |
| 8 | BI_DD- |



| 10003see. Molmolx |  |  |
| :---: | :---: | :---: |
| Pin Number | Mol por | mol. port |
| 1 | ${ }_{\text {Bl_Dat }}$ |  |
| 2 | ${ }_{\text {Bloda }}$ | ${ }^{1.108 .}$ |
| 3 |  | $\mathrm{Bl}_{\text {Blat }}$ |
| 4 | ${ }_{\text {Bloct }}$ | ${ }^{81} 100+$ |
| 5 | ${ }_{\text {bloc. }}$ | ${ }_{\text {Blo }}$ O. |
| 6 |  | ${ }^{\text {B1_DA }}$ - |
| 7 | ${ }_{\text {Blob }}$ | ${ }_{\text {Bloct }}$ |
| 8 |  | 8ıLC. |

Note: " + " and " "" signs represent the polarity of the wires that make up each wire pair.
Bypass Connection
The device provides two sets of bypass fiber ports, giving the SFP fiber ports addition redundancy capabilities. Connect a LC fiber cable from a fiber port to a monitor port on the front panel and another LC fiber cable from the corresponding network port to another
witch. When the switch breaks down, incoming traffic will travel through the bypass port board and onto another active switch.


The fiber port will still work if it is not connected to any monitor port. However, the fiber port will not have bypass ability when the device is down.

Console Port Pin Definition
Console Port Pin Definition
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 assignment information.

| PC (male) pin assignment | RS-232 with DB9 (female) pin assignment (RJ45-DB9 cable) | ${ }^{\text {RJ45 }}$ pin assignment |
| :---: | :---: | :---: |
| PIN\#2 RxD | PIN\#2 RxD | PIN\#2 RxD |
| PIN\#3 ${ }^{\text {x }}$. | PIN\#3 $\mathrm{T} \times \mathrm{D}$ | PIN\#3 $7 \times 0$ |
| PIN\#5 GND | PIN\#5 GND | PIN\#5 GND | switer

## Quick Installation Guide

DGS-9812GP-AIO_S
Industrial Desktop Managed Gigabit Switch


1. Launch the Internet Explorer and type in IP address of the switch. The defaul static IP address is 192.168.10.1
2. Log in with default user name and passwo (both are admin). After logging in, you should see the 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 ORin website.


## :Specifications



## ORing

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ORing Industrial Networking Corp. $\begin{array}{ll}\begin{array}{l}\text { TEL: }+886-2-2118-1066 \\ \text { WAX: }:+886-2-2218-1014\end{array} & \begin{array}{l}\text { Websit: } \text { www.oring-networking.com } \\ \text { E-mail: support@oring-networking.com }\end{array}\end{array}$

- 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.

