

IFS NS2503-8P/2C Quick Installation Guide



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Certification	  N4131
FCC compliance	This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. You are cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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Introduction

The IFS GE-DS-82, GE-DS-82-POE and NS2503-8P/2C switches have 8 10/100Mbps ports with 2 Gigabit TP/SFP fiber optical combo ports and are equipped with robust layer 2 features; the description of these models as below:

GE-DS-82 :	8-Port 10/100Base-TX + 2-Port Gigabit TP/SFP Combo Managed Switch
GE-DS-82-POE :	8-Port 10/100Base-TX + 2-Port Gigabit TP/ SFP Managed PoE Switch
NS2503-8P/2C :	8-Port 10/100Base-TX + 2-Port Gigabit TP/ SFP Managed 802.3at PoE Switch

Package Contents

Open the box of the Managed Switch and carefully unpack it. The box should contain the following items: Check the contents of your package for following parts:

<input checked="" type="checkbox"/> The Managed Switch	x1
<input checked="" type="checkbox"/> User's Manual CD	x1
<input checked="" type="checkbox"/> Quick Installation Guide	x1
<input checked="" type="checkbox"/> 19" Rack mount Accessory Kit	x1
<input checked="" type="checkbox"/> Power Cord	x1
<input checked="" type="checkbox"/> Rubber Feet	X4
<input checked="" type="checkbox"/> RS-232 DB9 Male Console Cable	x1

If any of these are missing or damaged, please contact your distributor or IFS sales rep immediately, if possible, retain the original carton and packaging material in case you need to return the product for repair/replacement.

Requirements

- The operating system of the workstation running Windows XP/2003, Vista, Windows 7, MAC OS X , Linux, Fedora, Ubuntu or other platform compatible with TCP/IP protocols.
- **Workstation** installed with **Ethernet NIC** (Network Interface Card)
- Ethernet Port connection
 - Network cables - Use standard network (UTP) cables with RJ45 connectors.
- Above Workstation installed with **WEB Browser** and **JAVA runtime environment** Plug-in
- **Serial Port** connection
 - Above PC with COM Port (DB-9 / RS-232) or USB-to-RS-232 converter



It is recommended to use Internet Explore 6.0 or above to access Managed Switch.

Terminal Setup

To configure the system via terminal connection, connect a serial cable to a **COM port** on a PC or notebook computer and to serial (console) port of the Managed Switch. The console port of the Managed Switch is DCE already, so that you can connect the console port directly through PC without the need of Null Modem.

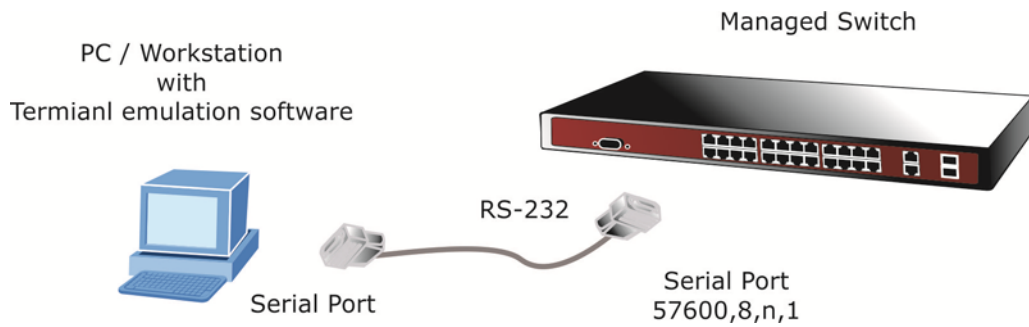


Figure 1: Console Management Diagram

A terminal program is required to make the software connection to the **Managed Switch**. Windows' **Hyper Terminal** program may be a good choice. The Hyper Terminal can be accessed from the **Start** menu.

1. Click **START**, then **Programs, Accessories** and then **Hyper Terminal**.
2. When the following screen appears, make sure that the COM port should be configured as:

- 57600 bps
- 8 data bits
- No parity
- 1 stop bit



Figure 2: Terminal Parameter Settings

You can change these settings, if desired, after you log on. This management method is often preferred because you can remain connected and monitor the system during system reboots. Also, certain error messages are sent to the serial port, regardless of the interface through which the associated action was initiated. A Macintosh or PC attachment can use any terminal-emulation program for connecting to the terminal serial port. A workstation attachment under UNIX can use an emulator such as TIP.

Login in the Console Interface

Once the terminal has connected to the device, turn on the Managed Switch, and the terminal will display the status of testing being performed.

Then, the following message asks the login user name and password. The factory default user name / password as following and the login screen in [Figure 3](#) appears.

```
Username: admin
Password: admin
```

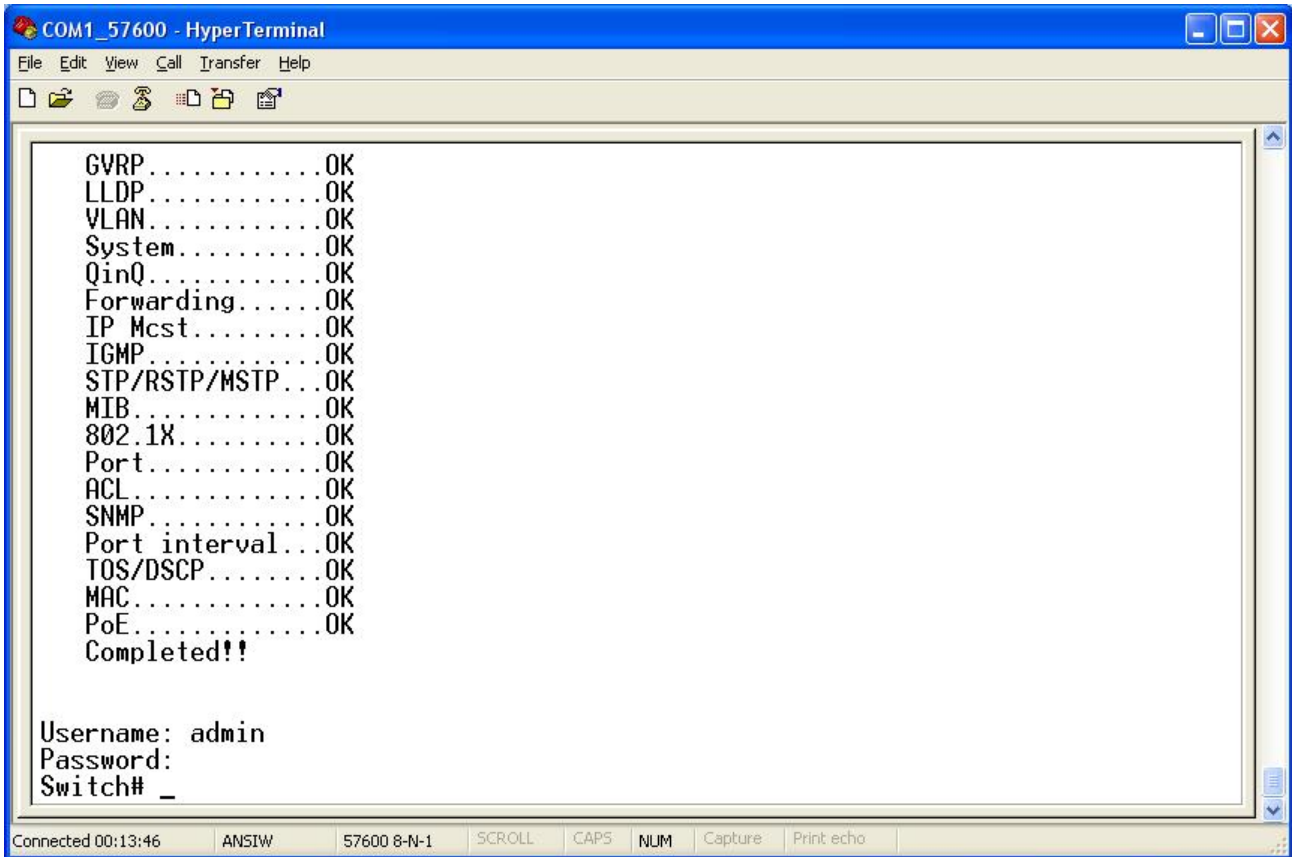


Figure 3: Managed Switch Console Login Screenshot



1. For security reasons, please change and memorize the new username and password after this first setup.
Username Max: **6**, Min: **1** characters.
Password Max: **6**, Min: **1** characters.
2. Only accept command in lowercase letter under console interface.

Configure IP address

The Managed Switch is shipped with the following default IP address.

```
IP Address : 192.168.0.100
Subnet Mask : 255.255.255.0
```

To check the current IP address or modify a new IP address for the Switch, please use the following procedures:

■ Show the current IP address

1. On "**Switch#**" prompt, enter "**configure**".
2. On "**Switch(config)#**" prompt, enter "**show ip**".

- The screen displays the current IP address, Subnet Mask and Gateway. As show in Figure 4.

```

COM1_57600 - HyperTerminal
File Edit View Call Transfer Help
Forwarding.....OK
IP Mcst.....OK
IGMP.....OK
STP/RSTP/MSTP...OK
MIB.....OK
802.1X.....OK
Port.....OK
ACL.....OK
SNMP.....OK
Port interval...OK
TOS/DSCP.....OK
MAC.....OK
PoE.....OK
Completed!!

Username: admin
Password:
Switch# configure
Switch(config)# show ip
IP address: 192.168.0.100
Subnet mask: 255.255.255.0
Gateway: 192.168.0.254
Switch(config)# _

```

Connected 00:13:46 ANSIW 57600 8-N-1 SCROLL CAPS NUM Capture Print echo

Figure 4: Show IP information Screenshot

■ Configure IP address

- On “Switch(config)#” prompt, enter the following command and press <Enter>. As show in Figure 5.

```

Switch(config)# ip address 192.168.1.100 255.255.255.0
Switch(config)# ip default-gateway 192.168.1.254

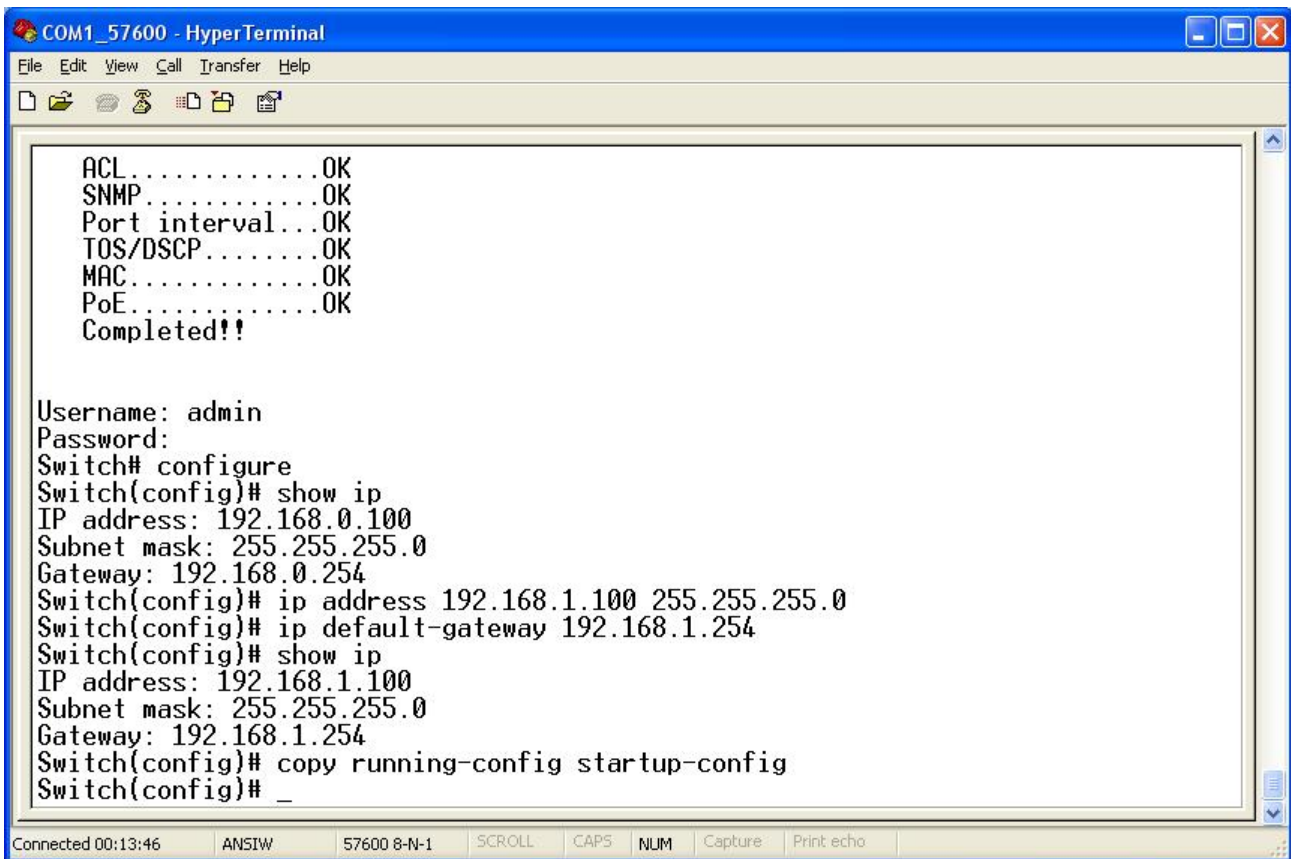
```

The previous command would apply the follow settings for the Switch.

IP: 192.168.1.100

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.254



```

COM1_57600 - HyperTerminal
File Edit View Call Transfer Help
[Icons]
ACL.....OK
SNMP.....OK
Port interval...OK
TOS/DSCP.....OK
MAC.....OK
PoE.....OK
Completed!!

Username: admin
Password:
Switch# configure
Switch(config)# show ip
IP address: 192.168.0.100
Subnet mask: 255.255.255.0
Gateway: 192.168.0.254
Switch(config)# ip address 192.168.1.100 255.255.255.0
Switch(config)# ip default-gateway 192.168.1.254
Switch(config)# show ip
IP address: 192.168.1.100
Subnet mask: 255.255.255.0
Gateway: 192.168.1.254
Switch(config)# copy running-config startup-config
Switch(config)# _

Connected 00:13:46  ANSIW  57600 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo

```

Figure 5: Set IP address Screenshot

- Repeat Step 1 to check if the IP address is changed.

If the IP is successfully configured, the Managed Switch will apply the new IP address settings immediately. You can access the Web interface of the Managed Switch through the new IP address.



If you are not familiar with console command or the related parameter, enter “**help**” anytime in console to get the help description.

You can change these settings, if desired, after you log on. This management method is often preferred because you can remain connected and monitor the system during system reboots. Also, certain error messages are sent to the serial port, regardless of the interface through which the associated action was initiated. A Macintosh or PC attachment can use any terminal-emulation program for connecting to the terminal serial port. A workstation attachment under UNIX can use an emulator such as TIP.

Start Web-based Management

The Managed Switch offers management features that allow users to manage the Managed Switch from anywhere on the network through a standard browser such as Microsoft Internet Explorer.

The Web-Based Management supports Internet Explorer 6.0 or later. It is based on Java Applets with an aim to reduce network bandwidth consumption, enhance access speed and present an easy viewing screen.

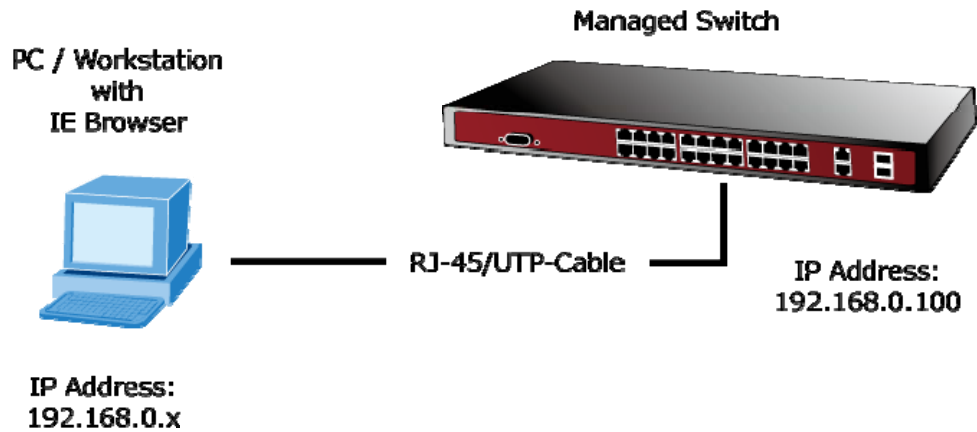


By default, IE 6.0 or later version does not allow Java Applets to open sockets. The user has to explicitly modify the browser setting to enable Java Applets to use network ports.

The Managed Switch can be configured through an Ethernet connection, make sure the manager PC must be set on same the IP subnet address with the Managed Switch.

For example, the default IP address of the Managed Switch is **192.168.0.100**, then the manager PC should be set at **192.168.0.x** (where x is a number between 1 and 254, except 100), and the default subnet mask is 255.255.255.0.

If you have changed the default IP address of the Managed Switch to 192.168.1.1 with subnet mask 255.255.255.0 via console, then the manager PC should be set at 192.168.1.x (where x is a number between 2 and 254) to do the relative configuration on manager PC.



Logging on the Managed Switch

1. Use Internet Explorer 6.0 or above Web browser. Enter the factory-default IP address to access the Web interface. The factory-default IP Address as following:

http://192.168.0.100

2. When the following login screen appears, please enter the default username “**admin**” with password “**admin**” (or the username/password you have changed via console) to login the main screen of Managed Switch. The login screen in [Figure 4-1-1](#) appears.



Figure 6: Login Screen

Default User name: **admin**
 Default Password: **admin**

3. After entering the username and password, the main screen appears as [Figure 7](#).



Figure 7: Web Main Page Screenshot

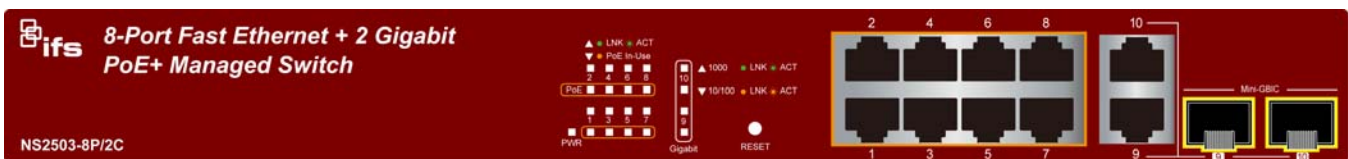
4. The Switch Menu on the left of the Web page let you access all the commands and statistics the Switch provides.



1. We recommend using Internet Explorer 6.0 or above to access Managed Switch.
2. If the IP address of the switch is changed, the change will take effect immediately after you have clicked on the **Apply** button, therefore you need to use the new IP address to access the Web interface.
3. For security reasons, please change and memorize the new password after the first setup.
4. The Switch accepts commands in lowercase letters on the web interface.

Resetting the IP address and Admin Password

To reset the IP address to the default IP Address “192.168.0.100” or reset the password to default value press the hardware **reset button** at the front panel about **10 seconds**. After the device is rebooted, you can login the management WEB interface within the same subnet of 192.168.0.xx.



Reset



Contacting Technical Support

Contact technical support if you encounter any difficulties during this installation. Please make sure you have the requested diagnostic or log files ready before you contact us by phone or go to www.interlogix.com/customer-support.

Technical Support

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