

# NS3503-16P-4C L2/L4 Managed Giga Ethernet Switch Quick Installation Guide

## 1. Introduction

Thank you for purchasing IFS L2/L4 Managed Gigabit Ethernet Switch. The description of this model is shown below:

**NS3503-16P-4C** 16-port 10/100/1000T Ultra PoE + 4-port Gigabit TP/SFP Combo Managed Switch

“**Managed Switch**” is used as an alternative name in this Quick Installation Guide.

Open the box of the Managed Switch and carefully unpack it. The box should contain the items listed below:

## 2. Package Contents

Model Series	NS3503-16P-4C
Model Name	NS3503-16P
Package Item	
The Managed Switch	1
Quick Installation Guide	1
RS-232 to RJ45 Console Cable	1
Rubber Feet	4
Two Rack-mounting Brackets with Attachment Screws	2
Power Cord	1
SFP Dust Caps	4

If any item is found missing or damaged, please contact your local reseller for replacement.

## 3. Requirements

- Workstations running Windows XP/2003/Vista/7/8/2008/10, MAC OS X or later,

Linux, UNIX, or other platforms are compatible with TCP/IP protocols.

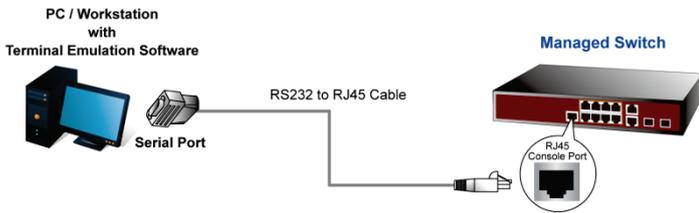
- Workstations are installed with Ethernet NIC (Network Interface Card)
- **Serial Port Connection (Terminal)**
  - The above Workstations come with COM Port (DB9) or USB-to-RS-232 converter.
  - The above Workstations have been installed with terminal emulator, such as Hyper Terminal included in Windows XP/2003.
  - **Serial cable** -- One end is attached to the RS-232 serial port, while the other end to the console port of the Managed Switch.
- **Ethernet Port Connection**
  - Network cables -- Use standard network (UTP) cables with RJ45 connectors.
  - The above PC is installed with Web browser and JAVA runtime environment plug-in.

**Note:** It is recommended to use Internet Explore 8.0 or above to access the Managed Switch. If the Web interface of the Managed Switch is not accessible, please turn off the anti-virus software or firewall and then try it again.

## 4. Terminal Setup

The Managed Switch is equipped with a console interface for local switch setup and maintenance. To configure the system, connect a serial cable to a **COM port** on a PC or notebook computer and to the RJ45 type of the console port of the Managed Switch.

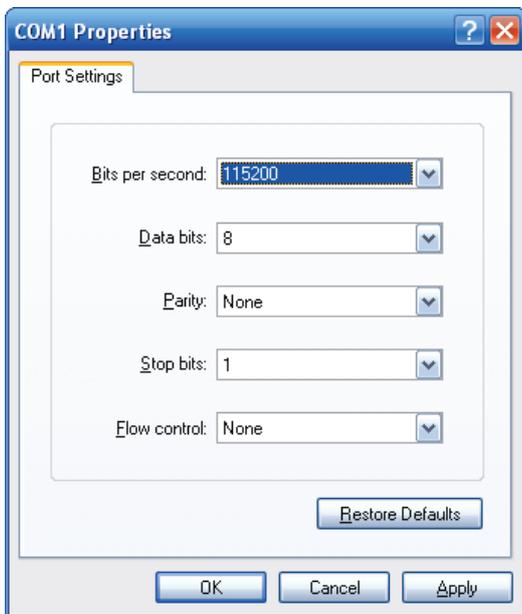
Figure 4-1 Managed Switch Console Connectivity



A terminal program is required to make the software connection to the Managed Switch.

1. Run terminal program on the OS.
2. When the following screen appears, make sure that the COM port should be configured as:
  - ◆ **Baud: 115200**
  - ◆ **Data bits: 8**
  - ◆ **Parity: None**
  - ◆ **Stop bits: 1**
  - ◆ **Flow control: None**

Figure 4-2 COM Port Configuration



## 5. Logon to the Console

Once the terminal is connected to the device, power on the Managed Switch and the terminal will display “running testing procedures”. Then, the following message asks to log-in user name and password. The factory default user name and password are shown as follows, and the login screen in Figure 4-1 appears.

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

Figure 5-1: Managed Switch Console Login Screen

```
Press any key to continue
Username: admin
Password: admin
NS3503-16P#
```

The user can now enter commands to manage the Managed Switch. For a detailed description of the commands, please refer to the following chapters.

### Note:

1. For security reason, please change and memorize the new password after this first setup.
2. Only accept command in lowercase letter under console interface.

## 6. Configuring IP Address via the Console

The Managed Switch is shipped with default IP address as follows:

```
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 procedures as follows:

### Show the current IP address

1. At the “**NS3503-16P #**” prompt, enter “**show ip**”.
2. The screen displays the current IP Address, Subnet Mask and Gateway as shown in Figure 5-1.

Figure 6-1: IP Information Screen

```
Press any key to continue
Username: admin
Password: *****
NS3503-16P# show ip
IP Address: 192.168.0.100
Subnet Netmask: 255.255.255.0
Default Gateway: 192.168.0.254
```

### Configuring IP address thru commands

3. At the “**NS3503-16P#**” prompt, enter “**configure**”.
4. At the “**NS3503-16P(config)#**” prompt, enter the following command and press **<Enter>** as shown in Figure 5-2.

```
NS3503-16P(config)# ip address 192.168.1.100 mask
255.255.255.0
NS3503-16P(config)# ip default-gateway 192.168.1.254
```

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

Figure 6-2: IP Address Screen

```
IP Address: 192.168.1.100
Subnet Mask: 255.255.255.0
Gateway: 192.168.1.254
Press any key to continue
Username: admin
Password: *****
NS3503-16P# configure
NS3503-16P (config)# ip address 192.168.1.100 mask 255.255.255.0
NS3503-16P (config)# ip default-gateway 192.168.1.254
```

3. Repeat Step 1 to check if the IP address has changed.

If the IP is successfully configured, the Managed Switch will apply the new IP address setting immediately. You can access the Web interface of the NS3503-16P Managed Switch through the new IP address.

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

## 7. Saving the Configuration via the Console

In the switch, the running configuration file is stored in the RAM. In the current version, the running configuration sequence of running-config can be saved from the RAM to FLASH by **writing** the command or **copying** the **running-config startup-config** command, so that the running configuration sequence becomes the startup configuration file, which is the configuration saved.

1. At the “NS3503-16P#” prompt, enter “**copy running-config startup-config**” as shown in Figure 6-1.

Figure 7-1: The Configuration Screen

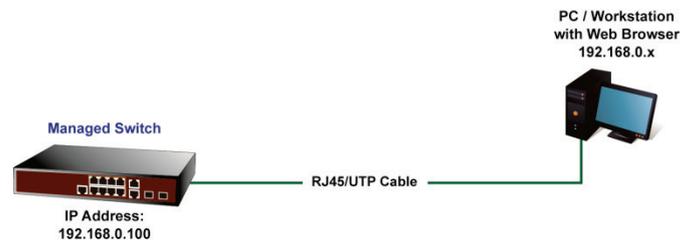
```
Press any key to continue
Username: admin
Password: *****
NS3503-16P# copy running-config startup-config
Success
```

## 8. Starting Web Management

The following shows how to start up the **Web Management** of the Managed Switch. Note the Managed Switch is configured through an Ethernet connection. Please make sure the manager PC must be set to the same **IP subnet address**.

For example, the default IP address of the Managed Switch is **192.168.0.100**, then the manager PC should be set to **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.

Figure 8-1: IP Management Diagram

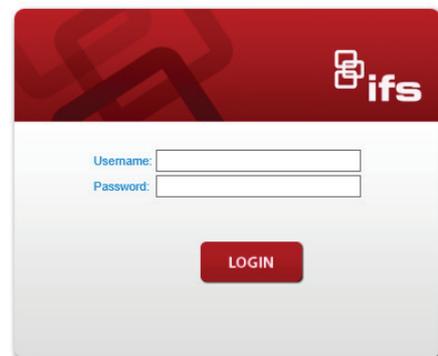


## 9. Logging in to the Managed Switch

1. Use Internet Explorer 8.0 or above Web browser and enter IP address <http://192.168.0.100> to access the Web interface.
2. When the following dialog box appears, please enter the default user name and password “**admin**”. The login screen in Figure 8-2 appears.

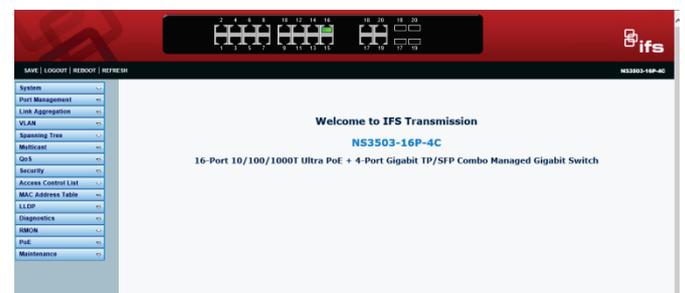
```
Default Username: admin
Default Password: admin
```

Figure 8-2: Login Screen



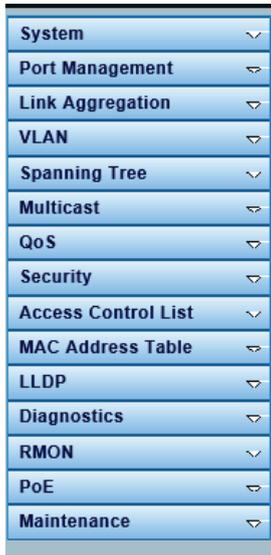
3. After entering the password, the main screen appears as Figure 7-3 shows.

Figure 8-3: Web Main Screen of Managed Switch



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

Figure 8-4: Switch Menu



Now, you can use the Web management interface to continue the Switch management.

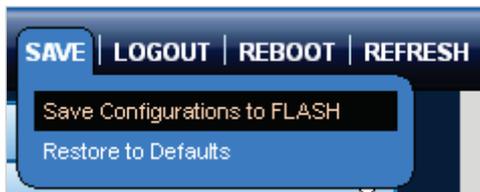
Please refer to the User’s Manual for further information.

## 10. Saving Configuration via the Web

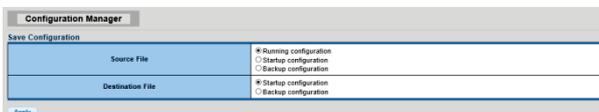
In the Managed Switch, the running configuration file is stored in the RAM. In the current version, the running configuration sequence of running-config can be saved from the RAM to FLASH by “**Save Configurations to FLASH**” function, so that the running configuration sequence becomes the startup configuration file, which is the configuration saved.

To save all applied changes and set the current configuration as a startup configuration, the startup-configuration file will be loaded automatically across a system reboot.

1. Click “**Save > Save Configurations to FLASH**” to login to the “Configuration Manager” page.



2. Press the “**Apply**” button to save running configuration to start up configuration.

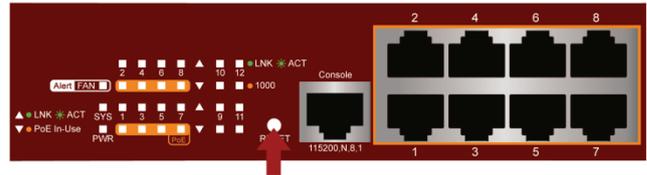


## 11. Recovering Back to Default Configuration

IP address has been changed or admin password has been forgotten –

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

Figure 10-1: NS3503-16P-4C Reset Button



## 12. Customer Support

Thank you for purchasing IFS products. You can browse our online FAQ resource and User’s Manual on IFS Web site first to check if it could solve your issue. If you need more support information, please contact IFS switch support team.

**IFS online FAQ:**

<http://www.Interlogix.com/support>

**Switch support team mail address:**

<http://www.Interlogix.com/support>