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NS3500-28T-4S

Quick Start Guide



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Intended use	Use this product only for the purpose it was designed for; refer to the data sheet and user documentation for details. For the latest product information, contact your local supplier or visit us online at www.interlogix.com .
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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European Union directives	2004/108/EC (EMC Directive): Hereby, UTC Building & Industrial Systems, Inc. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC.
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1. Package Contents

Thank you for purchasing NS3500-28T-4S - 28-Port 10/100/1000Mbps + 4-Port Shared SFP Managed Gigabit Switch.

The “**Managed Switch**” mentioned in this Guide refers to the NS3500-28T-4S.

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

- ◆ The Managed Switch x 1
- ◆ Quick Installation Guide x 1
- ◆ RS-232 to RJ-45 Cable x 1
- ◆ Rubber Feet x 4
- ◆ Two Rack-mounting Brackets with Attachment Screws x 1
- ◆ Power Cord x 1
- ◆ SFP Dust-proof Cap x 4

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

2. Requirements

- ◆ Workstations running Windows XP/2003/Vista/7/8/2008, 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 RJ-45 connectors.
 - ◆ The above PC is installed with Web Browser and JAVA runtime environment plug-in.

Note: It is recommended to use Internet Explorer 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.

3. Terminal Setup

To configure the system, connect a serial cable to a **COM port** on a PC or notebook computer and to RJ-45 type of console port of the Managed Switch.

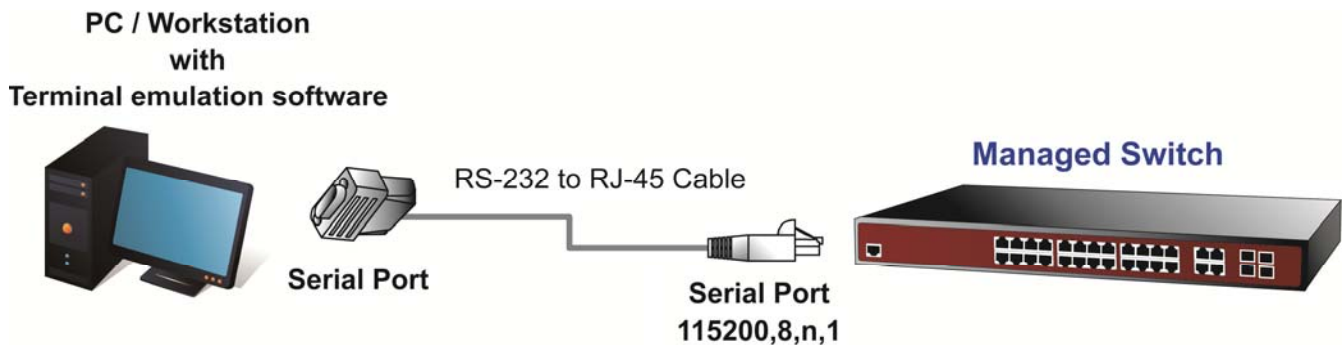


Figure 3-1 Managed Switch Console Connectivity

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

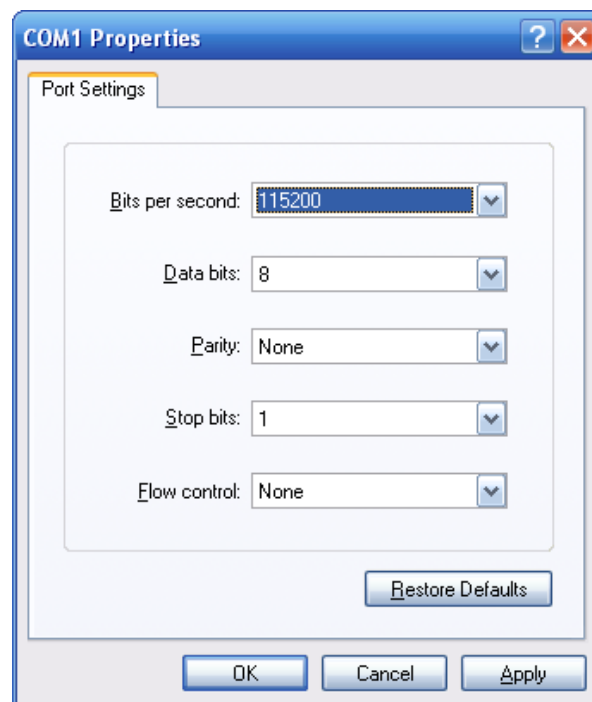


Figure 3-2 COM Port Configuration

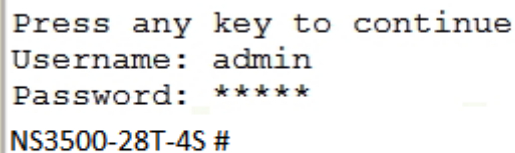
4. Logon to the Console

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**



```
Press any key to continue
Username: admin
Password: *****
NS3500-28T-4S #
```

Figure 4-1: Managed Switch Console Login Screen

The user can now enter commands to manage the Switch.

For a detailed description of the commands, please refer to the following chapters.

-
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.

Note:

5. Configuring IP Address via the Console

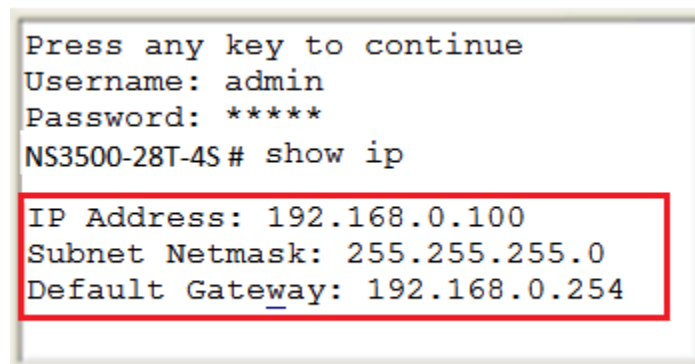
The Managed Switch is shipped with default IP address as follows:

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:

■ Display of the current IP address

1. On " **NS3500-28T-4S #**" prompt, enter "**show ip**".
2. The screen displays the current IP address, Subnet Mask and Gateway shown in Figure 5-1.

A screenshot of a terminal window showing the login process for the NS3500-28T-4S switch. The prompt is 'NS3500-28T-4S #'. The user enters 'show ip'. The output is displayed in a red-bordered box: 'IP Address: 192.168.0.100', 'Subnet Netmask: 255.255.255.0', and 'Default Gateway: 192.168.0.254'.

```
Press any key to continue
Username: admin
Password: *****
NS3500-28T-4S # show ip
IP Address: 192.168.0.100
Subnet Netmask: 255.255.255.0
Default Gateway: 192.168.0.254
```

Figure 5-1: IP Information Screen

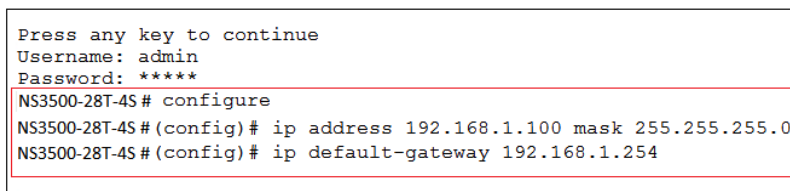
Configuration of the IP address

3. On " **NS3500-28T-4S#**" prompt, enter "**configure**".
4. On " **NS3500-28T-4S(config) #**" prompt, enter the following command and press **<Enter>** as shown in Figure 5-2.

NS3500-28T-4S(config) # **ip address 192.168.1.100 mask 255.255.255.0**
NS3500-28T-4S(config) # **ip default-gateway 192.168.1.254**

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

IP Address: 192.168.1.100
Subnet Mask: 255.255.255.0
Gateway: 192.168.1.254

A screenshot of a terminal window showing the configuration process for the NS3500-28T-4S switch. The prompt is 'NS3500-28T-4S #'. The user enters 'configure'. The prompt changes to 'NS3500-28T-4S(config) #'. The user enters 'ip address 192.168.1.100 mask 255.255.255.0'. The prompt changes to 'NS3500-28T-4S(config) #'. The user enters 'ip default-gateway 192.168.1.254'. The commands are highlighted with a red border.

```
Press any key to continue
Username: admin
Password: *****
NS3500-28T-4S # configure
NS3500-28T-4S(config) # ip address 192.168.1.100 mask 255.255.255.0
NS3500-28T-4S(config) # ip default-gateway 192.168.1.254
```

Figure 5-2: Setting IP Address Screen

5. 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 setting immediately. You can access the Web interface of Managed Switch through the new IP address.

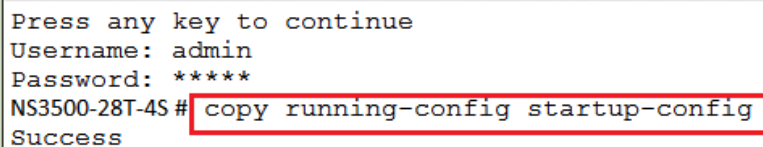
Note:

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

6. Saving the Configuration via the Console

In switch, the running configuration file stores in the RAM. In the current version, the running configuration sequence running-config can be saved from the RAM to FLASH by **write** command or **copy running-config startup-config** command, so that the running configuration sequence becomes the start up configuration file, which is called configuration save.

1. On “NS3500-28T-4S#” prompt, enter “**copy running-config startup-config**” as shown in Figure 6-1.



```
Press any key to continue
Username: admin
Password: *****
NS3500-28T-4S# copy running-config startup-config
Success
```

Figure 6-1: Saving the Configuration Screen

7. Starting Web Management

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

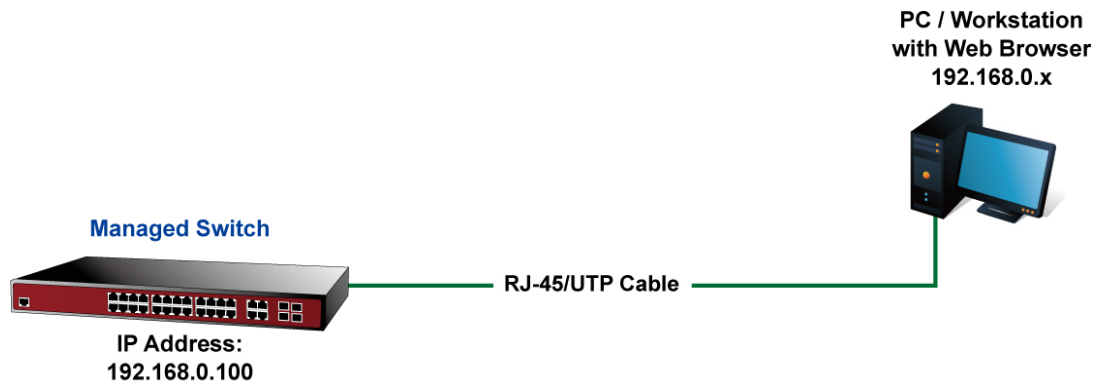


Figure 7-1: IP Management Diagram

7.2 Logging in 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 3-2 appears.

Default Username: **admin**

Default Password: **admin**

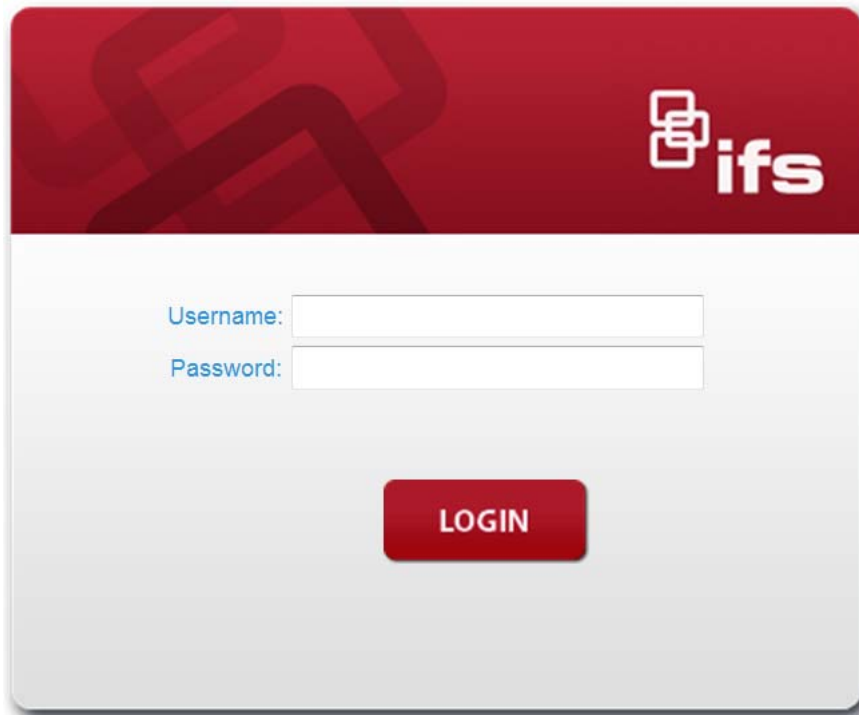
The image shows a web-based login interface. At the top, there is a red header bar with a white logo consisting of three stacked squares followed by the text 'ifs'. Below the header, the background is light gray. There are two input fields: the first is labeled 'Username:' in blue text and the second is labeled 'Password:' in blue text. Both labels are to the left of their respective white input boxes. Below the input fields, there is a red rectangular button with the word 'LOGIN' in white capital letters.

Figure 7-2: Login Screen

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

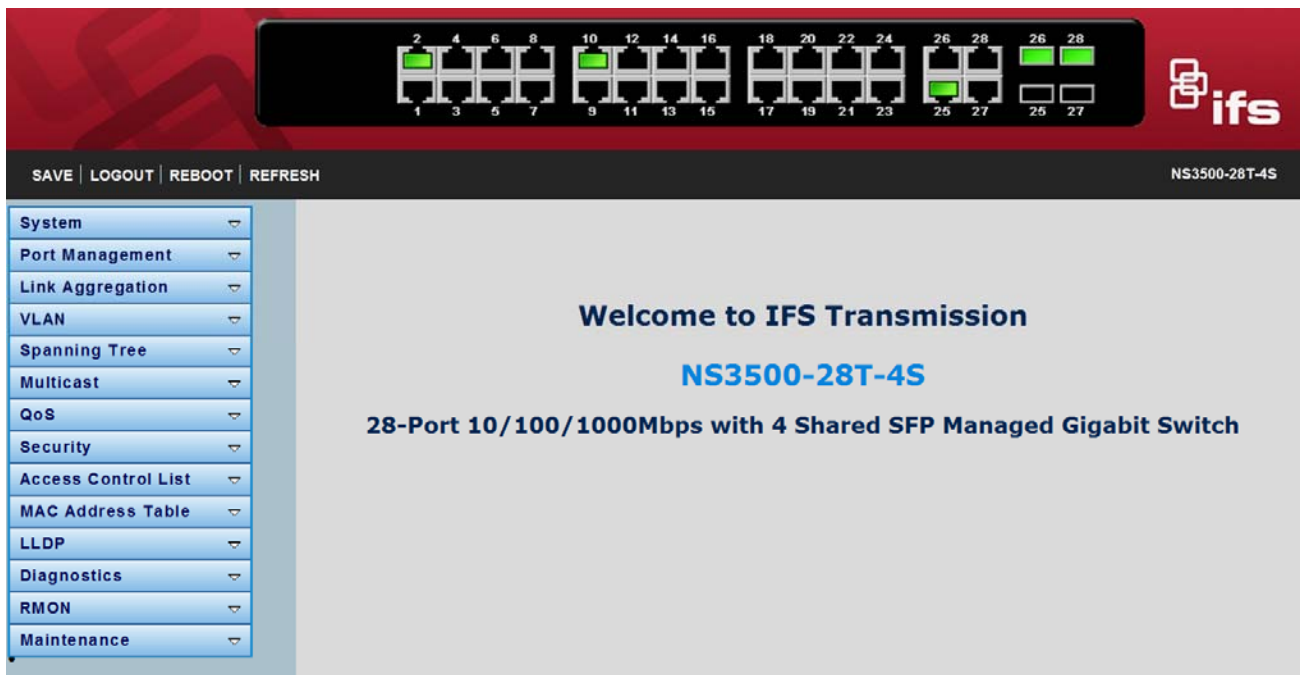


Figure 7-3: Web Main Screen of Managed Switch

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



Figure 7-4: Switch Menu

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

Please refer to the user's manual for more.

8. Saving Configuration via the Web

In the Managed Switch, the running configuration file stores 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 called configuration save.

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 "Configuration Manager" Page.



2. Press the "**Apply**" button to save running configuration to startup configuration.

Configuration Manager	
Save Configuration	
Source File	<input checked="" type="radio"/> Running configuration <input type="radio"/> Startup configuration <input type="radio"/> Backup configuration
Destination File	<input checked="" type="radio"/> Startup configuration <input type="radio"/> Backup configuration
<input type="button" value="Apply"/>	

9. 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 default value, press the **reset button** on the front panel for about **10 seconds**. After the device is rebooted, you can login the Web interface management within the same subnet of 192.168.0.xx.

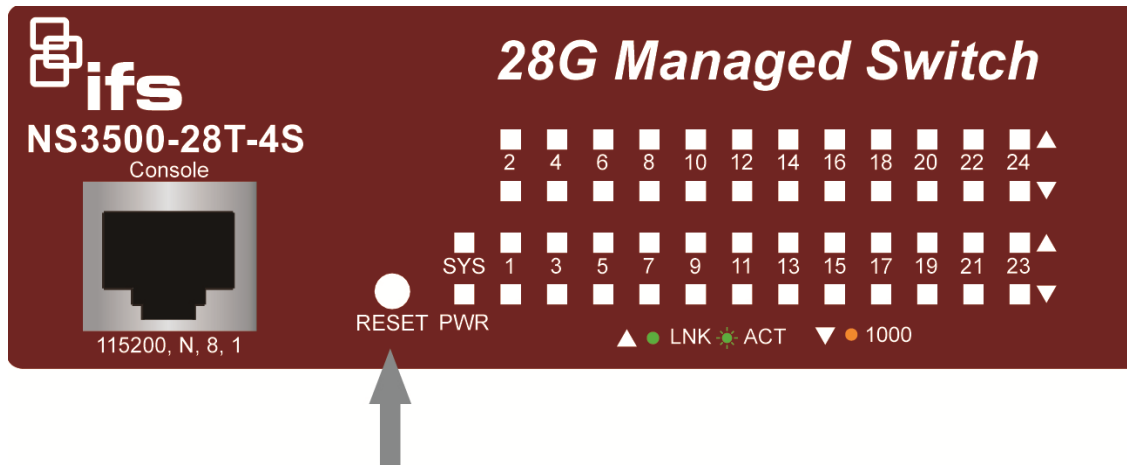


Figure 9-1: NS3500-28T-4S Reset Button

10. Customer Support

Thank you for purchasing INTERLOGIX products. You can browse our online FAQ resource on the INTERLOGIX website first to check if it could solve your issue. If you need more support information, please contact INTERLOGIX.com/support for the support team.

www.interlogix.com/customer support