



## netis Managed Switch Quick Installation Guide

This Quick Installation Guide is for:
- Network Engineer
- Network Administrator
The Switch mentioned in this Quick Installation Guide stands for netis 100Mbps & 1000Mbps Managed Switches, including models-ST3208, ST3216, ST3224, ST3310, ST3310GF, ST3324, ST3324G, ST3324GF, ST3326, ST3326M, ST3326GF, ST3328, ST3328M, ST3328GF, ST3526GF, PE6310H, PE6310, PE6310GFH, PE6310GF, PE6326, PE6328, PE6326P, PE6328P, PE6326GF, PE6328GF, etc. For simplicity, we take PE6328 as an example of the product images below.

### 1.Package Contents

Make sure that the package contains the following items. If any of the listed items is damaged or missing, please contact your distributor.



### 2.Appearance

#### 2.1 Front Panel



• LEDs
(Note: Not all the LED indicators in the following table are included on one switch. Please refer to the panel of your switch.)

Table with 3 columns: LED, Status, Indication. Rows include PWR, SYS (CPU), LINK/ACT (1-8/16/24, 9X-10X; 1X-26X/28X/I), and 10/100M (/1000M).

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For PE6310H/PE6310/PE6310GFH/PE6310GF/PE6326GF/PE6328GF, they have an LED mode switch button to change the port LED status indication. When the LINK LED is on (by default), the port LED is indicating the data transmission status (Yellow Green Color). When the PoE LED is on, the port LED is indicating the PoE power supply status (Orange Color).

When the LINK LED is on, the port LED is indicating the data transmission status.

Table with 3 columns: LED, Status, Indication. Rows include LINK/ACT On, Flashing, and Off.

After the LED mode switch button is pressed, the PoE LED is on and the port LED will indicate the PoE power supply status.

Table with 3 columns: LED, Status, Indication. Rows include LINK/ACT On, Off, PoE MAX On, Flashing, and Off.

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### • Port Feature

Table with 7 columns: Model, 10/100Mbps RJ45 Port, 10/100/1000 Mbps RJ45 Port, SFP Port, PoE Port, Console Port. Lists various switch models and their port capabilities.

#### 10/100Mbps RJ45 Port

Designed to connect to the device with a bandwidth of 10Mbps, 100Mbps or 1000Mbps.

#### SFP Port

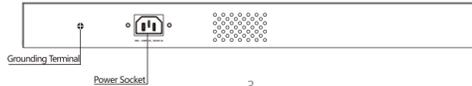
Designed to install the SFP module. ST3310/ST3310GF/ST3324GF/ST3326/ST3328M/ST3328GF/ST3328M/ST3328M/ST3328GF/PE6310H/PE6310/PE6310GFH/PE6310GF/PE6326/PE6328/PE6326P/PE6328P/PE6326GF/PE6328GF switch features some SFP transceiver slots which are shared with the associated 10/100/1000Mbps RJ45 ports.

#### Console Port

Designed to connect with the serial port of a computer or terminal for monitoring and configuring the switch.

#### 2.2 Rear Panel

(For some models)



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### Ground Terminal

You can ground the switch through the PE(Protecting Earth) cable of AC cord or with Ground Cable for lightning protection.

### Power Socket

Connect the female connector of the power cord here, and the male connector to the AC power outlet. Please make sure the voltage of the power supply meets the requirement of the input voltage (100~240V, 50/60Hz).

Caution: Please use the provided power cord in the package.

### 3.Safety Precautions

To avoid any device damage and bodily injury caused by improper use, please observe the following rules.

#### 3.1 Safety Precautions

- 1) Keep the power off during the installation.
2) Wear an ESD-preventive wrist strap, and make sure that the wrist strap has a good skin contact and is well grounded.
3) Use only the power cord provided with the switch.
4) Make sure that the supply voltage matches the specifications indicated on the rear panel of the switch.
5) Ensure the vent hole is well ventilated and unblocked.
6) Do not open or remove the cover of the switch.
7) Before cleaning the device, cut off the power supply. Do not clean it by the waterish cloth, and never use any other liquid cleaning method.

#### 3.2 Site Requirements

To ensure normal operation and long service life of the device, please install it in an environment that meets the requirements described in the following subsection.

#### Temperature/Humidity

Please keep a proper temperature and humidity in the equipment room. Too high/low humidity may lead to bad insulation, electricity leakage, mechanical property changes and corrosions. Too high temperature may accelerate aging of the insulation materials and can thus significantly shorten the service life of the device. For normal temperature and humidity of the device, please check the following table.

Table with 3 columns: Environment, Temperature, Humidity. Rows include Operating and Storage conditions.

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### Clearness

The dust accumulated on the switch can be absorbed by static electricity and result in poor contact of metal contact points. Some measures have been taken for the device to prevent static electricity, but too strong static electricity can cause deadly damage to the electronic elements on the internal circuit board. To avoid the effect of static electricity on the operation of the switch, please attach much importance to the following items:
1) Dust the device regularly, and keep the indoor air clean.
2) Keep the device well grounded and ensure static electricity has been transferred.

### Electromagnetic Interference

Electronic elements including capacitance and inductance on the device can be affected by external interferences, such as conducted emission by capacitance coupling, inductance coupling, and impedance coupling. To decrease the interferences, please make sure to take the following measures:

- 1) Use the power supply that can effectively filter interference from the power grid.
2) Keep the device far from high-frequency, strong-current devices, such as radio transmitting station.
3) Use electromagnetic shielding when necessary.

### Lightning Protection

Extremely high voltage currents can be produced instantly when lightning occurs and the air in the electric discharge path can be instantly heated up to 20,000°C. As this instant current is strong enough to damage electronic devices, more effective lightning protection measures should be taken.

- 1) Ensure the rack and device are well earthed.
2) Make sure the power socket has a good contact with the ground.
3) Keep a reasonable cabling system and avoid induced lightning.

### Installation Site

When installing the device on a rack or a flat workbench, please note the following items:

- 1) The rack or workbench is flat and stable, and sturdy enough to support the weight of 5.5kg at least.
2) The rack or workbench has a good ventilation system. The equipment room is well ventilated.
3) The rack is well grounded. Keep the power socket less than 1.5 meters away from the device.

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### 4.Product Installation

#### 4.1 Desktop Installation

Set the device on a flat surface strong enough to support the entire weight of the device with all fittings. The supplied rubber feet can be attached to the recessed areas on the bottom at each corner of the switch.

#### 4.2 Rack Installation

To install the device in a standard-sized, 19-inch rack, follow the instructions described below:

- 1) Check the grounding and stability of the rack.
2) Secure the supplied rackmount brackets to each side of the device with supplied screws.
3) After the brackets are attached to the device, use suitable screws (not provided) to secure the brackets to the rack.

### Caution:

- Please set 5~10cm gaps around the device for air circulation.
- Please avoid any heavy thing placed on the device.
- Please mount devices in sequence from the bottom to top of the rack and ensure a certain clearance between devices for the purpose of heat dissipation.

### 5.Connection

#### 5.1 Configure the Switch via GUI

- 1) To access the GUI of the switch, open a web browser and type the default management address http://192.168.2.11 in the address field of the browser, then press the Enter key.
Note: To log in to the GUI of the switch, the IP address of your PC should be set in static IP, such as 192.168.2.20, 255.255.255.0, 192.168.2.1).

- 2) Enter guest for the default username and password, both in lower case letters. Then click the Login button or press the Enter key.
3) After a successful login, the main page will appear as the following figure, and you can configure the functions by clicking the setup menus on the left side of the screen.

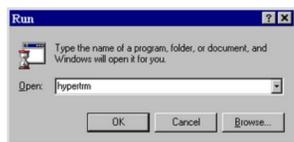


#### 5.2 Configure the Switch Using CLI

You can log in to the switch and access the CLI by the following two methods:
- Log in to the switch by the console port on the switch.
- Log in to the switch remotely by a Telnet or SSH connection through an Ethernet port. To log in to the switch by the console port on the Switch, please take the following steps:

#### Login by Console Port

To log in to the switch by the console port on the switch, please take the following steps:
1) Connect the PCs or Terminals to the console port on the switch by a provided cable.
2) On Windows XP, click "Start"> "Run" to open the Run window. Then type "hypertrm" into the Open: field and click OK.



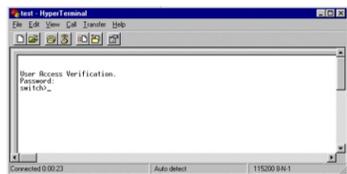
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- 3) When HyperTerminal starts, the Connection Description window will show up. Enter a name for the connection, use the default icon and click OK.
4) From the Connect using drop-down list, select either COM1 or COM2, and click OK.
5) Click Restore Defaults and select the following settings, and click OK.
Bits per second: 9600, or 115200, or 38400
Data bits: 8
Parity: None
Stop bits: 1
Flow control: None



Note: The "Bits per second" value varies on different switch models, please try 9600 and then 115200 or 38400. Each time when you try a different number, please click Restore Defaults first.

- 6) Type the password in the HyperTerminal window, the factory default value is guest. The DOS prompt window will appear after pressing the Enter button. It indicates that you can use the CLI now.



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#### Login by Telnet

To log on to the switch by a Telnet connection, please take the following steps:

- 1) Make sure the switch and the PC are in the same LAN.
2) Click "Start"> "Run" to open the Run window. Then type "cmd" into the Open: field and click OK.



- 3) Type "telnet 192.168.2.11" in the command prompt shown, and press the Enter button.
4) Type the username and password (the factory default value for both of them is guest) and press the Enter button, then you can use the CLI now.



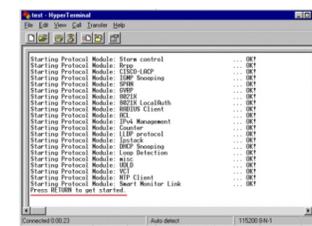
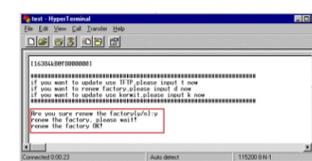
Note: For detailed CLI configuration instructions, please refer to the CLI Reference Guide on netis website: www.netis-systems.com.

### 6.Troubleshooting

- Q What could I do if I forgot the username and password of the switch?

- A 1) Make sure you had connected to your PC and the switch. Connect the PC console port to the console port of the switch and open HyperTerminal.
2) Power off and restart the Switch. Press "D" on your computer keyboard as an example of the product images below. Then you get below message from the console window.

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- Q What could I do if I could not access the web-based configuration page?

- A You are recommended to check the following items:
1) Check every port LED on the switch and make sure the cable is installed properly.
2) Try another port on the switch and make sure the cable meets the requirement and works normally.
3) Turn off the power. After a while, turn on the power again.
4) Make sure that the IP address of your PC is set within the subnet of the switch.
5) If you still cannot access the configuration page, please restore the switch to its factory defaults. Then the IP address should be set as 192.168.2.x ("x" is any number from 2 to 254 and Subnet Mask as 255.255.255.0) and the default login address is 192.168.2.11 and username and password are both guest.

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### Appendix:

#### FCC Statement

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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

#### Warning:

[A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.]
[Use only shielded cables to connect I/O devices to this equipment.]
You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
[ ]; depend on EUT condition.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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