

L3 Multi-Port Full Gigabit Stackable Managed Switch Series

SGS-6341-24T4X/SGS-6341-24P4X/

SGS-6341-48T4X/SGS-6341-24T6X/

SGS-6341-24P6X/SGS-6341-48T6X/

SGS-6341-16S8C4XR

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET L3 Multi-Port Full Gigabit Stackable Managed Switch, SGS-6341-24T4X/SGS-6341-24P4X/SGS-6341-48T4X/SGS-6341-24T6X/SGS-6341-24P6X/SGS-6341-48T6X/SGS-6341-16S8C4XR. The descriptions of these models are as follows:

SGS-6341-24T4X	Layer 3 24-Port 10/100/1000T + 4-Port 10G SFP+ Stackable Managed Switch
SGS-6341-24P4X	Layer 3 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Stackable Managed Switch (370W)
SGS-6341-48T4X	Layer 3 48-Port 10/100/1000T + 4-Port 10G SFP+ Stackable Managed Switch
SGS-6341-24P6X	Layer 3 24-Port 10/100/1000T 802.3at PoE + 6-Port 10G SFP+ Stackable Managed Ethernet Switch (370W)
SGS-6341-24T6X	Layer 3 24-Port 10/100/1000T + 6-Port 10G SFP+ Stackable Managed Ethernet Switch
SGS-6341-48T6X	Layer 3 48-Port 10/100/1000T + 6-Port 10G SFP+ Stackable Managed Ethernet Switch
SGS-6341-16S8C4XR	Layer 3 16-Port 100/1000X SFP + 8-Port Gigabit TP/SFP+ 4-Port 10G SFP+ Stackable Managed Switch (100~240V AC, 48V DC)

Unless specified, **“Managed Switch”** mentioned in this Quick Installation Guide refers to the above four models.

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

- The Managed Switch x 1
- QR Code Sheet x 1
- RJ45-to-DB9 Console Cable x 1
- Power Cord x 1
- Rubber Feet x 4
- Two Rack-mounting Brackets with Attachment Screws x 1
- Grounding Cable
- SFP Dust Cap

Model	SFP Dust Caps
SGS-6341-24T4X	4
SGS-6341-24P4X	8
SGS-6341-48T4X	4
SGS-6341-24T6X	6
SGS-6341-24P6X	6
SGS-6341-48T6X	6
SGS-6341-16S8C4XR	28

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

2. Switch Management

To set up the Managed Switch, the user needs to configure the Managed Switch for network management. The Managed Switch provides two management options: **Out-of-Band Management** and **In-Band Management**.

■ Out-of-Band Management

Out-of-band management is the management through Console interface. **Generally, the user will use out-of-band management for the initial switch configuration,** or when in-band management is not available.



Note

The Managed Switch is shipped with the **VLAN1 interface** configured with a default IP address of **192.168.0.254/24**. Users can assign a different IP address via the console interface to enable remote access to the switch through Telnet or HTTPS.

■ In-Band Management

In-band management refers to the management by logging in to the Managed Switch using Telnet or HTTPs, or using SNMP management software to configure the Managed Switch. In-band management enables the management of the Managed Switch to attach some devices to the Switch. The following procedures are required to enable In-band management:

1. Logging on to console
2. Assigning/Configuring IP address
3. Creating a remote login account
4. Enabling HTTP or Telnet server on the Managed Switch

In case in-band management fails due to Managed Switch configuration changes, out-of-band management can be used for configuring and managing the Managed Switch.



Note

The SGS-6341-24T6X, -24P6X, and -48T6X Managed Switches are shipped with the **management port** configured with a default IP address of **192.168.1.1/24**. Users can assign a different IP address via the console interface to enable remote access to the switch through Telnet or HTTPS.

3. Requirements

- **Workstations** running Windows 7/8/10/11, macOS 10.12 or later, Linux Kernel 2.6.18 or later, or other modern operating systems 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-RS232 converter.
 - The above Workstations have been installed with terminal emulator, such as Tera Term or PuTTY.
 - Serial cable -- one end is attached to the RS232 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 Google Chrome, Microsoft Edge or Firefox to access the Industrial Managed Switch. If the Web interface of the Industrial Managed Switch is not accessible, please turn off the anti-virus software or firewall and then try it again.

4. Terminal Setup

To configure the system, 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.

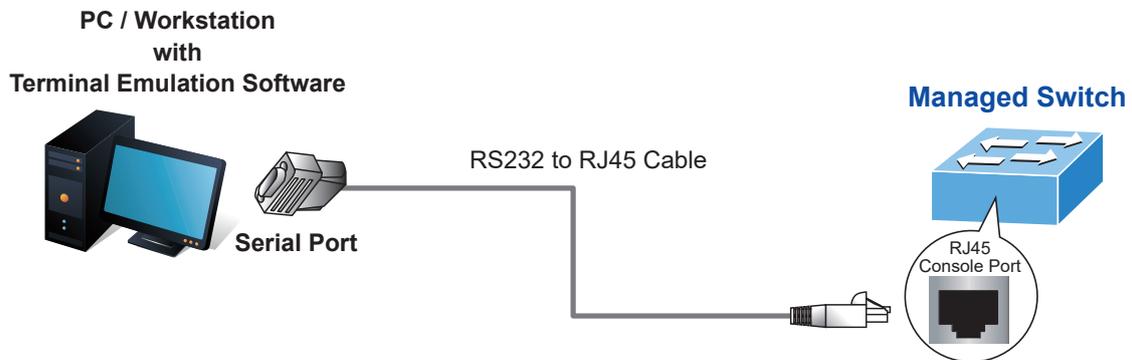


Figure 4-1: Managed Switch Console Connectivity

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

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

- ◆ Baud: 115200
- ◆ Parity: None
- ◆ Data bits: 8
- ◆ Stop bits: 1
- ◆ Flow control: None

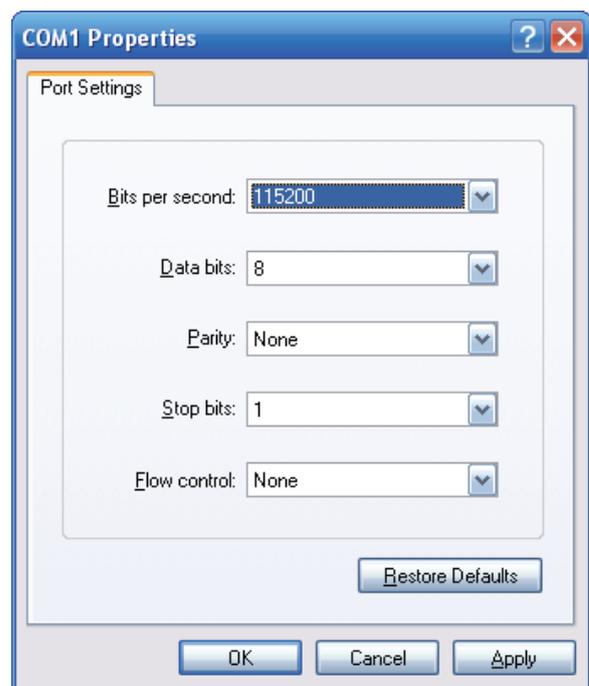


Figure 4-2: Tera Term COM Port Configuration

4.1 Logging on 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 for the login user name and password. The factory default user name and password are as follows as the login screen in Figure 4-3 appears.



Note

The following console screen is based on the firmware version before **May of 2024**.

Username: **admin**

Password: **admin**

```
User Access Verification
Username: admin
Password:
SGS-6341-Series#
```

Figure 4-3: 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.



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.

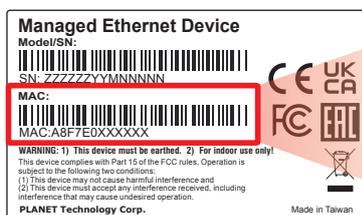


The following console screen is based on the firmware version of **May of 2024 or after**.

User name: **admin**

Password: **sw + the last 6 characters of the MAC ID in lowercase**

Find the MAC ID on your device label. The default password is "sw" or "mc" followed by the last six lowercase characters of the MAC ID.



MAC ID: A8F7E0XXXXXX
Default Password: swxxxxxx
("x" means the last 6 digits of the MAC address.
All characters should be in lowercase.)

Figure 4-4: Managed Switch MAC ID Label

Enter the default username and password, then set a new password according to the rule-based prompt and confirm it. Upon success, press any key to return to the login prompt. Log in with "admin" and the "new password" to access the CLI.

```
Please change default password!  
  
The password must contain 8-32 characters,including upper case  
,lower case,numerals,and other symbols.Please note,spaces(blank  
s) are not accepted!  
Enter Password:*****  
Re-Enter Password:*****  
Default password has been changed!  
SGS-6341-24P4X#
```

Figure 4-5: Create a New Password and Login Again

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

4.2 Configuring IP Address

The IP address configuration commands for VLAN1 interface are listed below. Before using in-band management, the Managed Switch must be configured with an IP address by out-of-band management (i.e. console mode). The configuration commands are as follows:

```
SGS-6341-Series#config  
SGS-6341-Series(config)#interface vlan 1  
SGS-6341-Series(config-if-Vlan 1)#ip address 192.168.1.254.255.255.0
```

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

IPv4 Address: 192.168.1.254

Subnet Mask: 255.255.255.0

```
SGS-6341-Series#config  
SGS-6341-Series(config)#interface vlan 1  
SGS-6341-Series(config-if-vlan1)#ip address 192.168.1.254 255.255.255.0
```

Figure 4-6: Configuring IPv4 Address Screen

To check the current IP address or modify a new IP address for the Managed Switch, please use the procedure as follows:

■ Show the current IP address

1. On "**SGS-6341-Series#**" prompt, enter "**show ip interface brief**".
2. The screen displays the current IP address, subnet mask and gateway as shown in Figure 4-7.

```
SGS-6341-Series#config  
SGS-6341-Series(config)#interface vlan 1  
SGS-6341-Series(config-if-vlan1)#ip address 192.168.1.254 255.255.255.0  
SGS-6341-Series(config-if-vlan1)#  
SGS-6341-Series(config-if-vlan1)#  
SGS-6341-Series(config-if-vlan1)#exit  
SGS-6341-Series(config)#exit  
SGS-6341-Series#show ip interface brief  
Index      Interface      IP-Address      Protocol  
11001     Vlan1          192.168.1.254   down  
17500     Loopback       127.0.0.1        up
```

Figure 4-7: Showing IP Information Screen

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 "**help**" anytime in console to get the help description.

4.3 Setting 1000BASE-X for SFP+ Port

The Managed Switch supports both **1000BASE-X** and **10GBASE-X** SFP transceiver by manual setting and the default SFP+ port speed is set to 10Gbps. For example, to establish the fiber connection with 1000BASE-X SFP transceiver in the **Ethernet 1/0/25**, the following command configuration is required:

```
SGS-6341-Series#config  
SGS-6341-Series(config)#interface ethernet 1/0/25  
SGS-6341-Series(config-if-ethernet 1/0/25)#speed-duplex force1g-full
```

```
SGS-6341-Series#config  
SGS-6341-Series(config)#interface ethernet 1/0/25  
SGS-6341-Series(config-if-ethernet1/0/25)#speed-duplex force1g-full
```

Figure 4-8: Setting 1000BASE-X Screen

4.4 Saving the Configuration

In Managed 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.

```
SGS-6341-Series#copy running-config startup-config  
SGS-6341-Series#write
```

```
SGS-6341-Series#copy running-config startup-config  
Write running-config to current startup-config successful
```

Figure 4-9: Copying Running-config Startup-config Screen

5. Starting Web Management

The Managed Switch provides a built-in browser interface. You can manage it remotely by having a remote host with Web browser, such as Microsoft Internet Explorer, Mozilla Firefox, Google Chrome or Apple Safari.

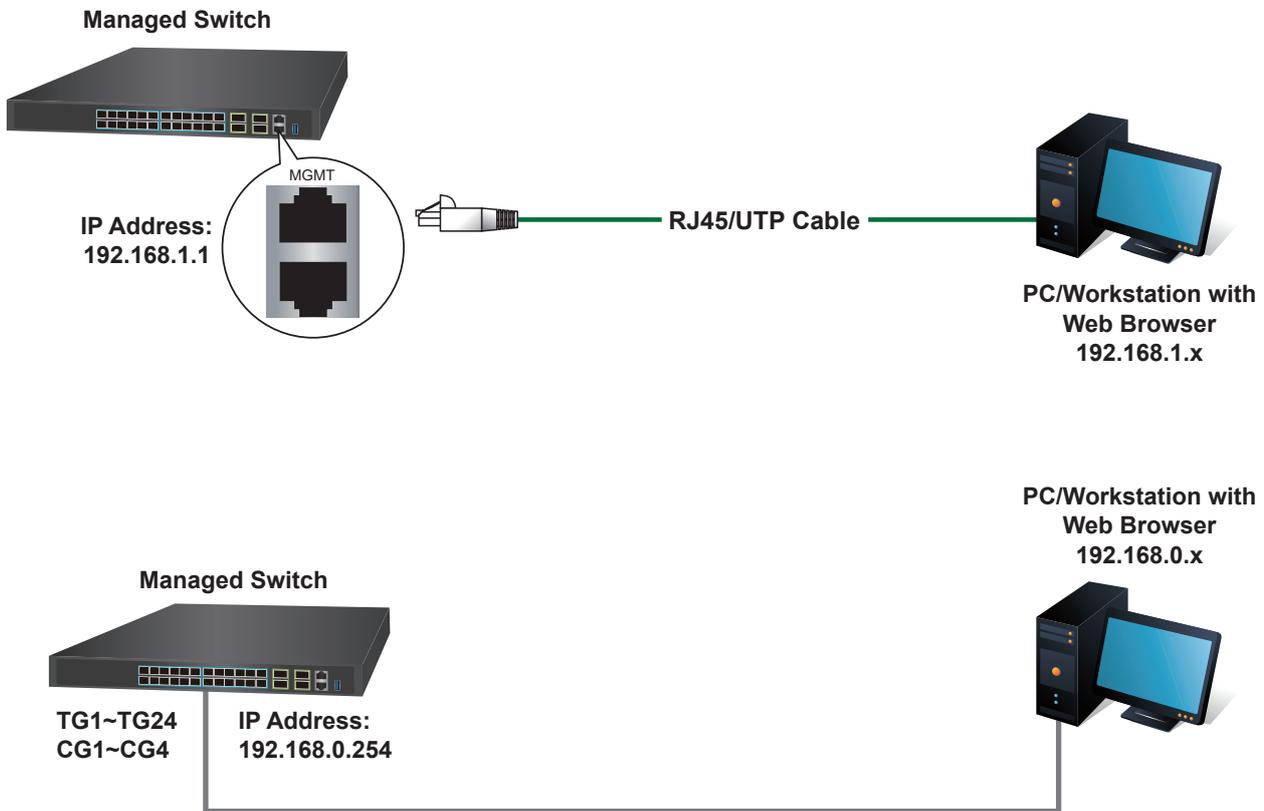


Figure 5-1: IP Management Diagram

The following shows how to start up the **Web Management** of the Managed Switch. Please 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 IP address of the Managed Switch is configured with **192.168.0.254**, then the manager PC should be set to **192.168.0.x** (where x is a number between 1 and 253, except 254), and the default subnet mask is 255.255.255.0.

5.1 Logging in to the Managed Switch

1. The Managed Switches are shipped with the VLAN1 interface configured with a default IP address of **192.168.0.254**. Use a web browser such as Google Chrome (latest version) and enter `https://192.168.0.254` to access the web interface.

For the SGS-6341-24T6X, -24P6X, and -48T6X models, the switches are also shipped with the management port configured with a default IP address of **192.168.1.1/24**. Users can assign a different IP address via the console interface to enable remote access through Telnet or HTTPS.



Note

The following console screen is based on the firmware version before **May of 2024**.

2. When the following dialog box appears, please enter the configured username **"admin"** and password **"admin"** (or the username/password you have changed via console). The login screen in Figure 5-2 and 5-3 appears.



Figure 5-2: Login Screen of SGS-6341-24T4X/-24P4X/-48T4X/-16S8C4XR

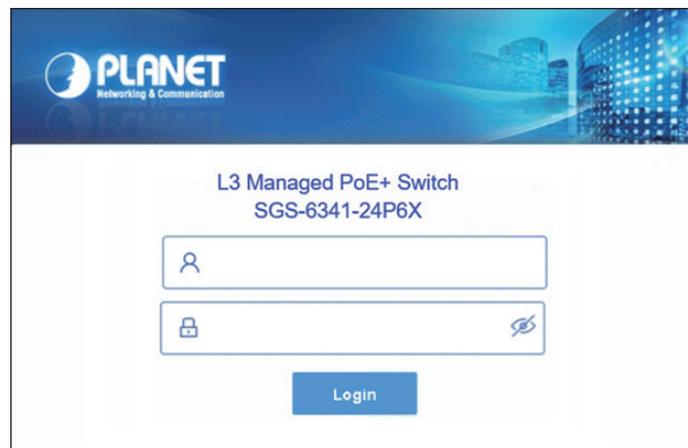


Figure 5-3: Login Screen of SGS-6341-24T6X/-24P6X/-48T6X

3. After entering the password, the main screen appears as shown in Figure 5-6.

 The following web screen is based on the firmware version of **May of 2024 or after**.

4. When the following dialog box appears, please enter the default user name **“admin”** and the password. Refer to **Section 4.1** to determine your initial login password.

Default IP Address: **192.168.0.100**
Default User Name: **admin**
Default Password: **sw + the last 6 characters of the MAC ID in lowercase**

5. Find the MAC ID on your device label. The default password is "sw" or "mc" followed by the last six lowercase characters of the MAC ID.

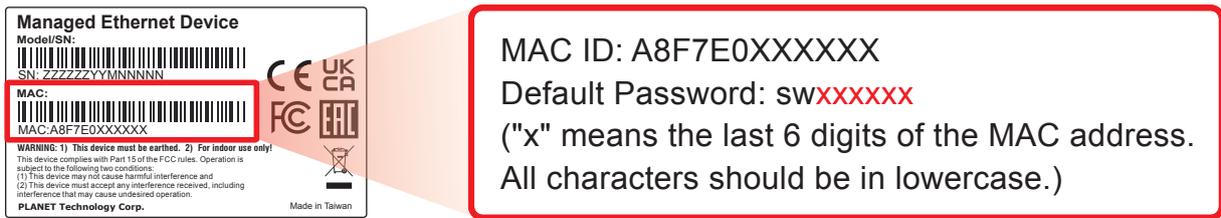


Figure 5-4: Industrial Managed Switch MAC ID Label

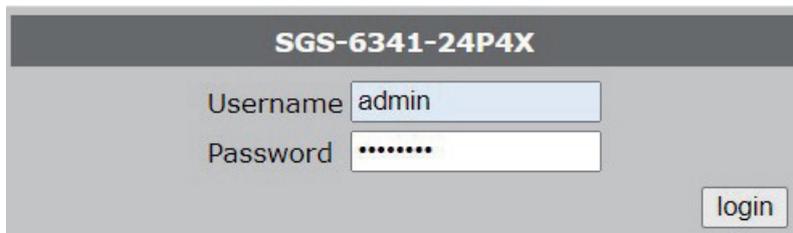


Figure 5-5: Login Screen

6. After logging in, you will be prompted to change the initial password to a permanent one.

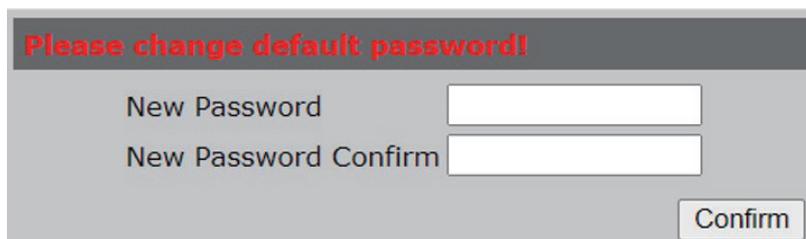


Figure 5-6: Create a New Password

- Enter the default username and password, then set a new password according to the rule-based prompt and confirm it. Upon success, press any key to return to the login prompt. Log in with "admin" and the "new password" to access the Web interface.

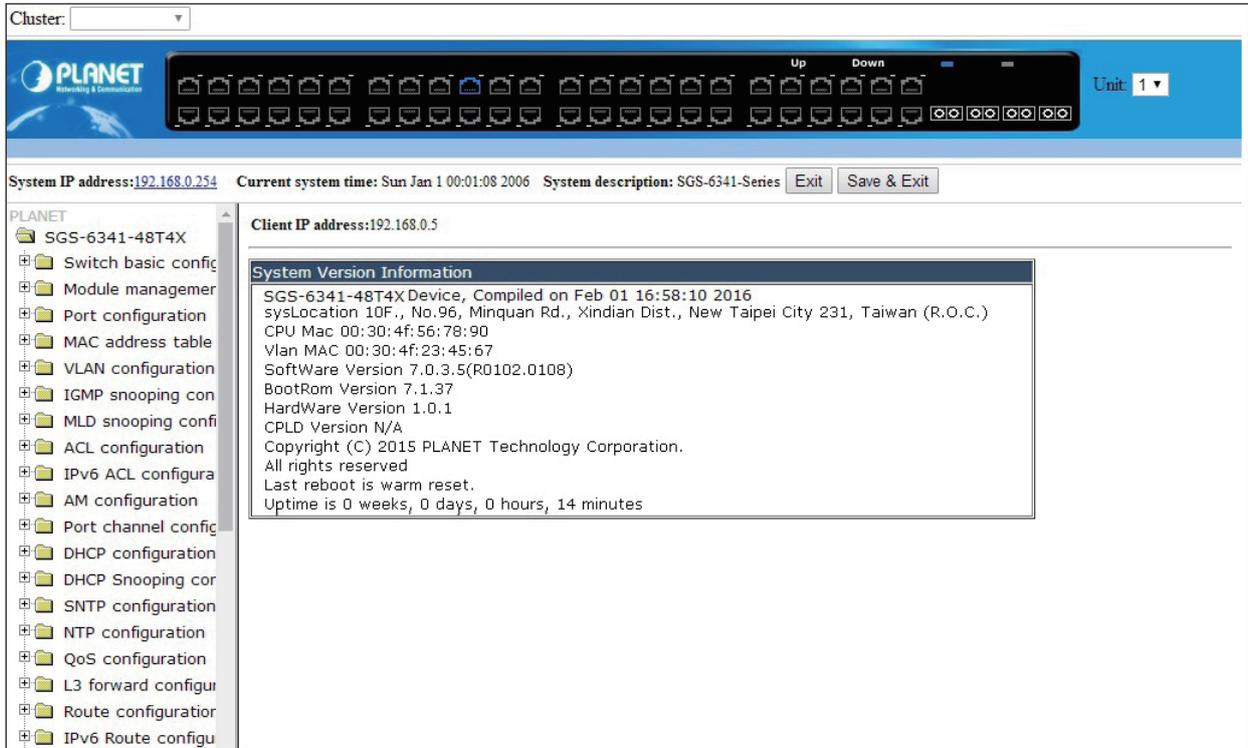


Figure 5-7: Web Main Screen of SGS-6341-24T4X/-24P4X/-48T4X/-16S8C4XR

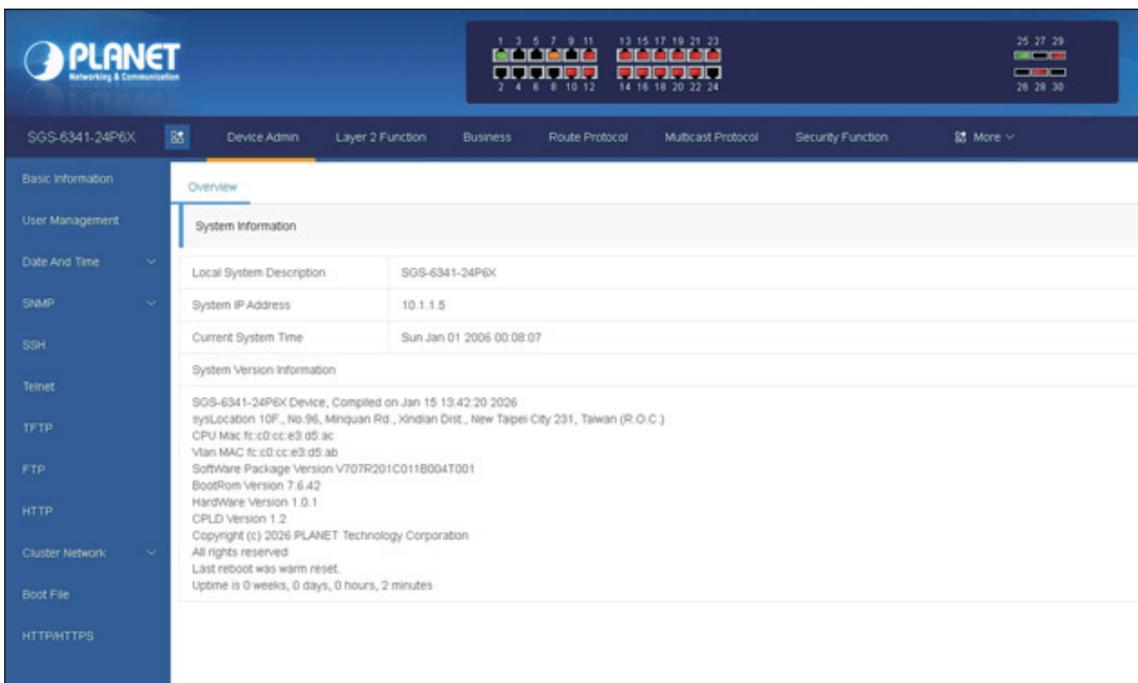


Figure 5-8: Web Main Screen of SGS-6341-24T6X/-24P6X/-48T6X

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

Now, you can use the Web management interface to continue the Switch management or manage the Managed Switch by console interface. Please refer to the user manual for more.

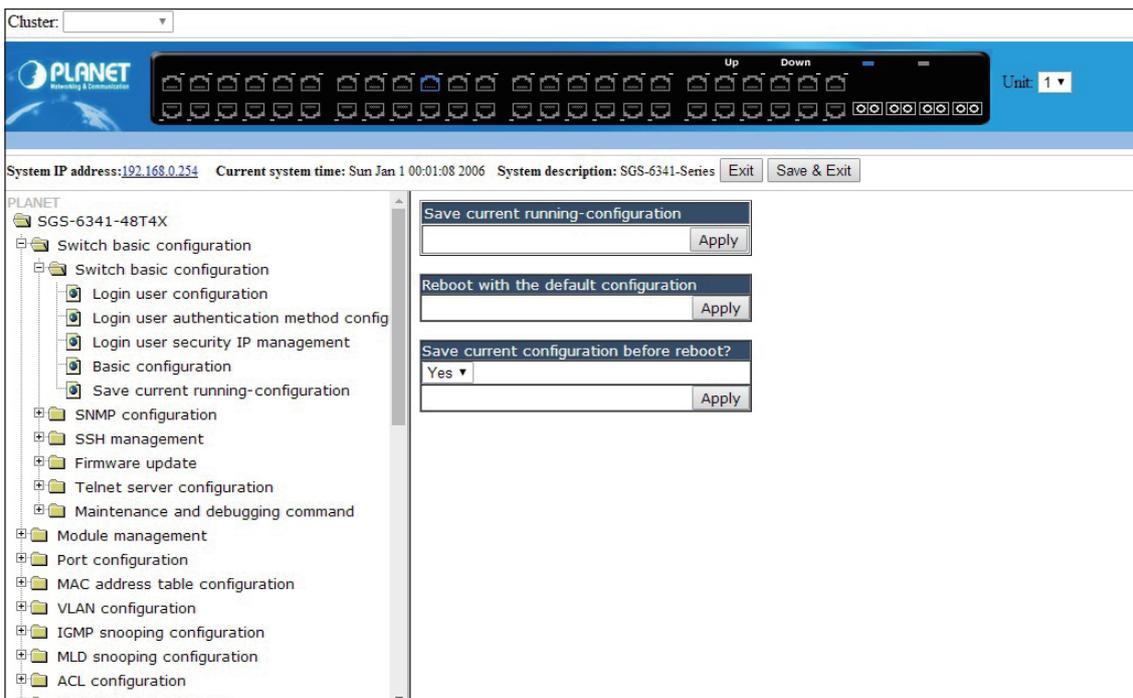
5.2 Saving Configuration via the Web

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 current running-configurations"** 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.

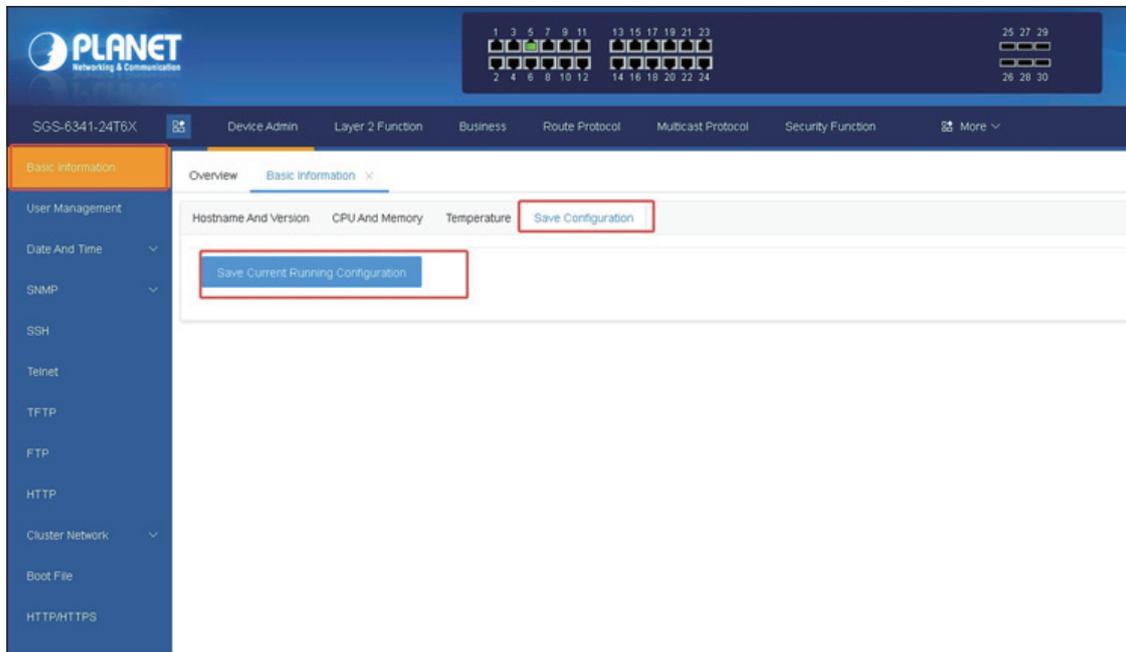
For SGS-6341-24T4X/-24P4X/-48T4X/-16S8C4XR Managed Switch

1. Click **"Switch basic configuration > Switch basic configuration > Save current running-configuration"** to log in "Save current running-configuration" Page.
2. Press the **"Apply"** button to save current running-configuration to start up configuration.



For SGS-6341-24T6X/-24P6X/-48T6X Managed Switch

3. Click **Device Admin > Basic Information > Save Configuration**, then press **“Save Current Running Configuration”** to save the current running configuration to the startup configuration.



6. Recovering Back to Default Configuration

6.1 Hardware-based Reset

For **SGS-6341-24P4X**, **SGS-6341-24T4X**, **SGS-6341-48T4X**, and **SGS-6341-16S8C4XR**, you can restore the switch to factory default settings by using the hardware reset button.

To reset the IP address to the default value **192.168.0.254** and restore the login credentials to their default values, press and hold the hardware reset button on the rear panel for approximately **10 seconds**.

After the device reboots, you can access the management Web interface from a PC within the same subnet (**192.168.0.xx**).

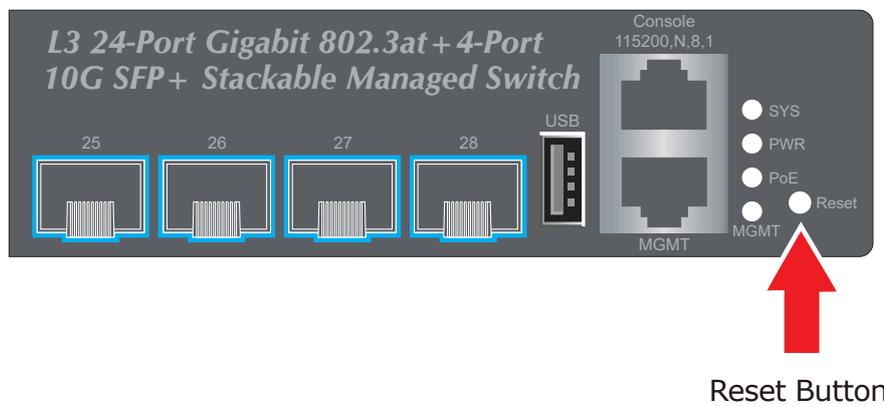


Figure 6-1: SGS-6341-24P4X Reset Button

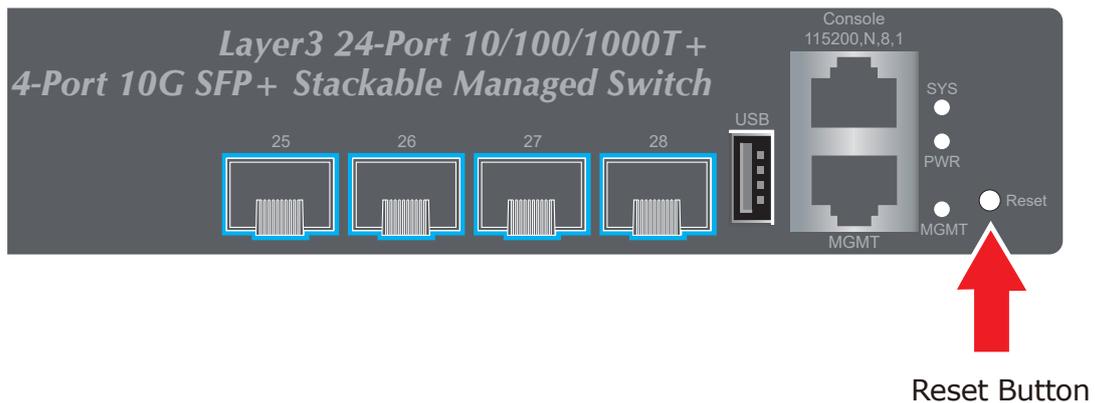


Figure 6-2: SGS-6341-24T4X Reset Button

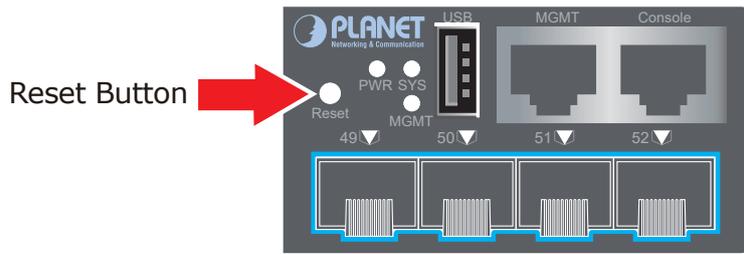


Figure 6-3: SGS-6341-48T4X Reset Button

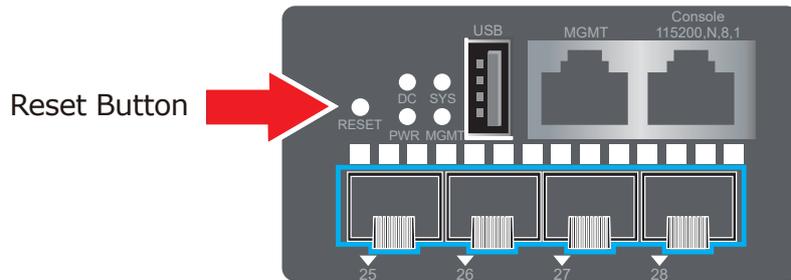


Figure 6-4: SGS-6341-16S8C4XR Reset Button

6.2 Software-based Reset

For SGS-6341-24P6X, SGS-6341-24T6X, and SGS-6341-48T6X, you can reset the switch to factory default settings, which restores the IP address to the default value 192.168.0.254 and resets the login credentials.

Use the following procedure to restore the device to the default configuration:

1. Use a console cable to connect to the switch and reboot the device.
2. At the beginning of the boot process, press **Ctrl + b** to enter Boot mode.
3. Enter the command **"boot startup-config null"** to restore the factory default settings.
4. Enter the command **"reboot"** to reboot the switch.

After the reboot, the switch will be restored to its factory default settings.

Refer to Section 4.1 for login and initial configuration instructions

```
[Boot]: boot startup-config null
3212 bytes written, 0 bytes skipped
default factory-config will be used.
[Boot]: reboot
```

Figure6-5: Restore to factory default settings

7. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource at the PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET switch support team.

PLANET online FAQs:

<https://www.planet.com.tw/en/support/faq>

Switch support team mail address:

support@planet.com.tw

SGS-6341 Series User's Manua:

<https://www.planet.com.tw/en/support/downloads?&method=keyword&keyword=SGS-6341&view=3#list>



(Please select your switch model name from the drop-down menu of Product Models.)

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