

**L2+ 24-Port Gigabit Managed Switch with
Hardware Layer3 IPv4/IPv6 Static Routing**

GS-5220-16S8C

GS-5220-16S8CR

Quick Installation Guide

Table of Contents

1. Package Contents	3
2. Requirements	4
3. Terminal Setup	5
4. Logon to Console.....	6
5. Configuring IP Address.....	7
6. Starting Web Management	10
7. Saving Configuration.....	13
8. Recovering Back to Default Configuration.....	14
9. Wiring DC Power Inputs	15
10. Customer Support	16

1. Package Contents

Thank you for purchasing PLANET L2+ 24-port Gigabit Managed Switch with Layer3 IPv4/IPv6 Static Routing. The descriptions of these models are as follows:

GS-5220-16S8C L2+ 24-port 100/1000X SFP Slots with 8-port Shared TP Managed Switch

GS-5220-16S8CR L2+ 24-port 100/1000X SFP Slots with 8-port Shared TP Managed Switch + AC/DC Redundant Power

“Managed Switch” is 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:

- Managed Switch x 1
- Quick Installation Guide x 1
- RJ-45 to RS232 Cable x 1
- Rubber Feet x 4
- Two Rack-mounting Brackets with Attachment Screws x 1
- Power Cord x 1
- SFP Dust Cap x 24

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 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.

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 serial (console) port of the Managed Switch.

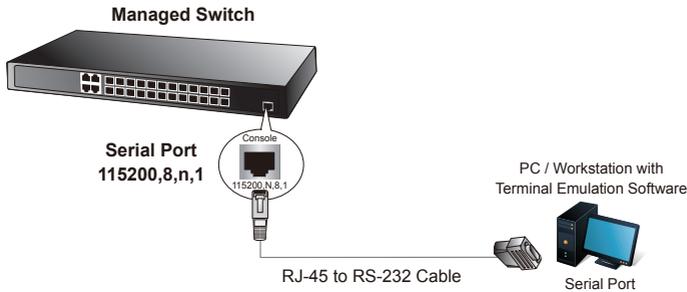


Figure 3-1: GS-5220-16S8C/GS-5220-16S8CR Console Connectivity

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. 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: Hyper Terminal COM Port Configuration

4. Logon to 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**

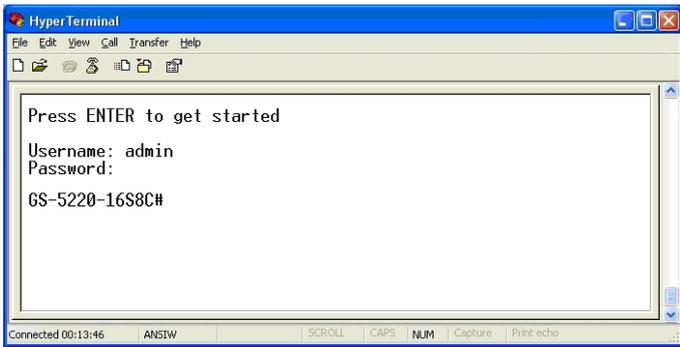


Figure 4-1: Managed Switch Console Login Screen

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.

5. Configuring IP Address

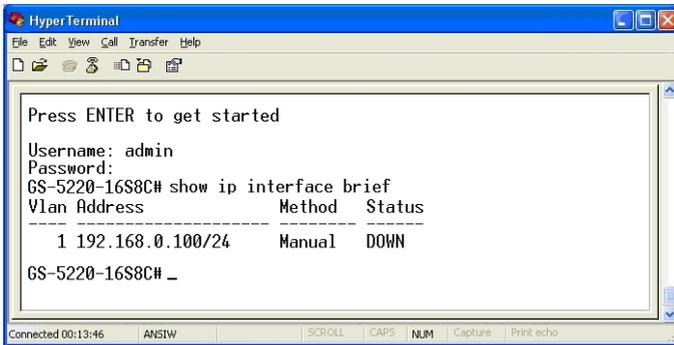
The Managed Switch is shipped with default IP address shown below.

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. At the “#” prompt, enter “**show ip interface brief**”.
2. The screen displays the current IP address shown in Figure 5-1.



```
Hyper Terminal
File Edit View Call Transfer Help
Press ENTER to get started
Username: admin
Password:
GS-5220-16S8C# show ip interface brief
Vlan Address          Method  Status
-----
 1 192.168.0.100/24   Manual  DOWN
GS-5220-16S8C# _
```

Connected 00:13:46 ANSIV SCROLL CAPS NUM Capture Print echo

Figure 5-1: IP Information Screen

■ Configuration of the IP Address

3. At the “#” prompt, enter the following command and press <Enter> as shown in Figure 5-2.

```
GS-5220-16S8C# configure terminal  
GS-5220-16S8C(config)# interface vlan 1  
GS-5220-16S8C(config-if-vlan)# ip address 192.168.1.100 255.255.255.0
```

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

```
IP Address: 192.168.1.100  
Subnet Mask: 255.255.255.0
```

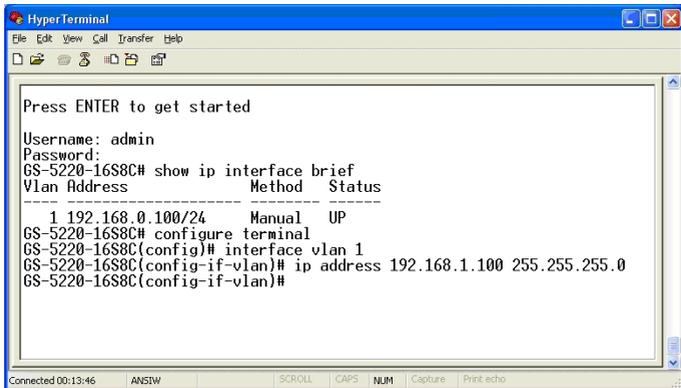


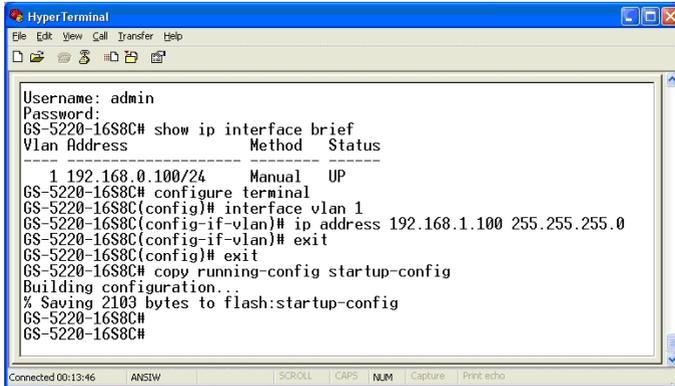
Figure 5-2: Configuring IP Address Screen

4. Repeat step 1 to check if the IP address is changed.

- Store the current switch configuration

5. At the “#” prompt, enter the following command and press **<Enter>**.

copy running-config startup-config



```
HyperTerminal
File Edit View Call Transfer Help
[Icons]
-----
Username: admin
Password:
GS-5220-16S8C# show ip interface brief
Vlan Address          Method Status
-----
1 192.168.0.100/24    Manual  UP
GS-5220-16S8C# configure terminal
GS-5220-16S8C(config)# interface vlan 1
GS-5220-16S8C(config-if-vlan)# ip address 192.168.1.100 255.255.255.0
GS-5220-16S8C(config-if-vlan)# exit
GS-5220-16S8C(config)# exit
GS-5220-16S8C# copy running-config startup-config
Building configuration...
% Saving 2103 bytes to flash:startup-config
GS-5220-16S8C#
GS-5220-16S8C#
-----
Connected 00:13:46  ANS5W  | SCROLL  | CAPS  NUM  | Capture  | Print echo
```

Figure 5-3: Saving Current Configuration Command 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 the Managed Switch through the new IP address.



Note

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

6. 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 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.

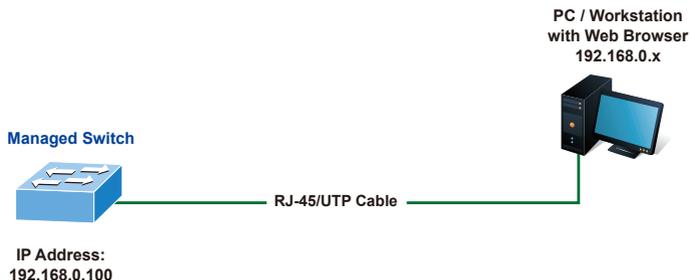


Figure 6-1: IP Management Diagram

Logging in the Managed Switch

1. Use Internet Explorer 8.0 or above Web browser and enter IP address **<http://192.168.0.100>** (the factory default IP address or the one that you have just changed in console) to access the Web interface.

- When the following dialog box appears, please enter the default user name and password **"admin"** (or the password you have changed via console). The login screen in Figure 6-2 appears.

Default IP Address: **192.168.0.100**
Default Username: **admin**
Default Password: **admin**



Figure 6-2: Login Screen

- After entering the password, the main screen appears as Figure 6-3 shows.



Figure 6-3: Web Main Screen of Managed Switch

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

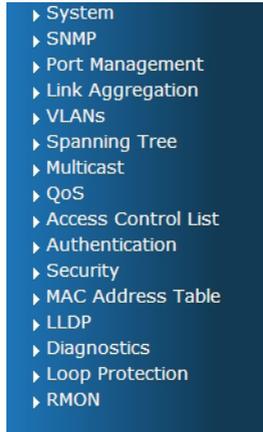


Figure 6-4: Switch Menu



Note

If you are not familiar with Switch functions or the related parameter, press **"Help icon"** anytime on the Web page to get the help description.

Now, you can use the Web management interface to continue the Switch management or manage the Switch by console interface.

Please refer to the user's manual for more.

7. Saving Configuration

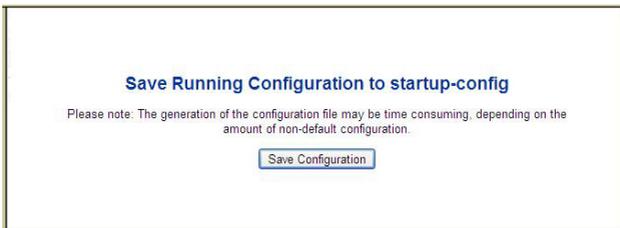
In the Managed Switch, the running configuration file stores in the RAM. In the current version, the running configuration sequence of running-config can be saved from the RAM to FLASH by executing save startup config command, so that the running configuration sequence becomes the startup configuration 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 System, **Save Startup Config**.



2. Press the **"Save Configuration"** button.



8. 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 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.

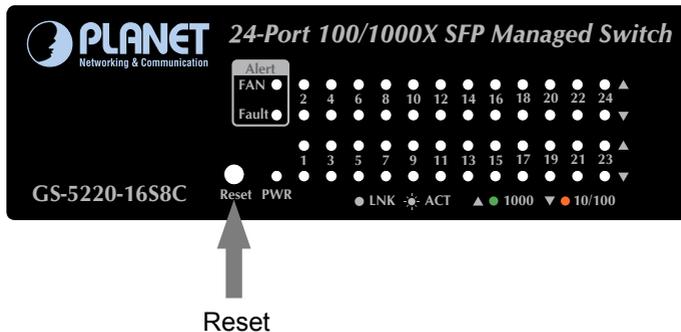


Figure 8-2: GS-5220-16S8C Series Reset Button

9. Wiring DC Power Inputs

■ DC Power Connector

The rear panels of the GS-5220-16S8CR contain a power switch and a DC power connector, which accepts DC power input voltage from 36V to 60V DC. Connect the power cable to the Managed Switch at the input terminal block. The size of the two screws in the terminal block is M3.5.

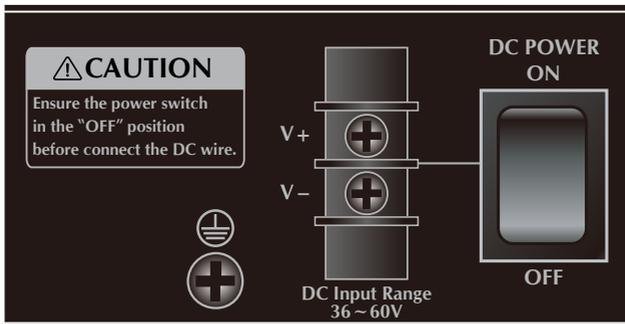


Figure 9-1: Rear Panel of GS-5220-16S8CR



Warning

Before connecting the DC power cable to the input terminal block of the GS-5220-16S8CR, ensure that the power switch is in the "OFF" position and the DC power is **OFF**.



Note

The wire gauge for the terminal block should be in the range of 12 ~ 24 AWG. The DC Input range is from 36V to 60V DC.

10. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource and User's Manual on 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 FAQ :

<http://www.planet.com.tw/en/support/faq.php?type=1>

Switch support team mail address :

support_switch@planet.com.tw

GS-5220-16S8C / GS-5220-16S8CR User's Manual

<http://www.planet.com.tw/en/support/download.php?type1=1&model=48563&type=3>



Copyright © PLANET Technology Corp. 2014.

Contents are subject to revision without prior notice.

PLANET is a registered trademark of PLANET Technology Corp. All other trademarks belong to their respective owners.