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PLANET GS-4210 802.3bt PoE++ Series L2/L4 Managed Gigabit Ethernet Switch Installation Guide

Contents

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Product Information

The L2/L4 Managed Gigabit Ethernet Switch GS-4210 802.3bt PoE++ Series is a network switch designed for small to medium-sized businesses. It comes in various models with different port configurations, including PoE+ and SFP ports, to meet different network requirements. This switch provides advanced management features, such as VLAN, QoS, and SNMP, to ensure network efficiency and security.

Product Package Contents

The package includes the following items:

- L2/L4 Managed Gigabit Ethernet Switch (model specific)
- Quick Installation Guide
- RS-232 to RJ45 Console Cable
- Rubber Feet
- Two Rack-mounting Brackets with Attachment Screws
- Power Cord
- SFP Dust Caps

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

Requirements
The following requirements must be met to use the Managed Switch:

- Workstations running Windows XP/2003/2008/2012/Vista/7/8/10/11, MAC OS X or later, Linux, UNIX, or other platforms compatible with TCP/IP protocols.
- Workstations installed with Ethernet NIC (Network Interface Card).
- Serial Port Connection (Terminal) – Workstations with COM Port (DB9) or USB-to-RS-232 converter and terminal emulator software, such as Hyper Terminal, putty or tera term.
- Ethernet Port Connection – Network cables using standard network (UTP) cables with RJ45 connectors.
- PC installed with Web browser. It is recommended to use Chrome 98.0.xxx or above to access the Managed Switch. If the Web interface of the Managed Switch is not accessible, turn off the anti-virus software or firewall and then try again.

Product Terminal Setup

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. A terminal program is required to make the software connection to the Managed Switch. Follow these steps:

1. Run terminal program on the OS.
2. Connect the RS232 end of the cable to the serial port of the PC and the RJ45 end to the console port of the Managed Switch.
3. Configure the terminal program with the following settings: baud rate 115200, data bits 8, stop bits 1, parity none, flow control none.
4. Press Enter to display the login prompt.

5. Enter the default username (admin) and password (admin) to log in to the Managed Switch.

Package Contents

Thank you for purchasing PLANET L2/L4 Managed Gigabit Ethernet Switch. The descriptions of this series are shown below:

GS-4210-8HP2T2S	4-port 10/100/1000T 802.3bt PoE + 4-port 10/100/1000T 802.3at PoE + 2-port 10/100/1000T + 2-port 100/1000X SFP Managed Switch
GS-4210-8HP2S	2-port 10/100/1000T 802.3bt PoE + 6-port 10/100/1000T 802.3at PoE + 2-port 100/1000X SFP Managed Switch
GS-4210-16UP4C	16-port 10/100/1000T 802.3bt PoE + 4-port Gigabit TP/ SFP Combo Managed Switch
GS-4210-24UP4C	24-port 10/100/1000T 802.3bt PoE + 4-port Gigabit TP/ SFP Combo Managed Switch
GS-4210-24HP2C	4-port 10/100/1000T 802.3bt PoE + 20-port 10/100/1000T 802.3at PoE + 2-port Gigabit TP/SFP Combo Managed Switch

"Managed Switch" mentioned in this Quick Installation Guide refers to the above models.

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

Model Name Packaged Item	GS-4210- 8H P2T2S	GS-4210- 8H P2S	GS-4210- 16 UP4C	GS-4210- 24 UP4C	GS-4210- 24HP2C
The Managed Switch	■	■	■	■	■
Quick Installation Guide	■	■	■	■	■
RS-232 to RJ45 Console Cable	■	■	■	■	■
Rubber Feet	■	■	■	■	■
Two Rack-mounting Brackets with Attachment Screws	■	■	■	■	■
Power Cord	■	■	■	■	■
SFP Dust Caps	2	2	4	4	2

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

Requirements

- Workstations running Windows XP/2003/2008/2012/Vista/7/8/10/11, 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 a terminal emulator, such as Hyper Terminal included in Windows XP/2003, putty, or tera term.
    - Serial cable — One end is attached to the RS-232 serial port, while the other end is to the RJ45 type 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.

Note:

- It is recommended to use Chrome 98.0.xxx 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.

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 console port of the Managed Switch.
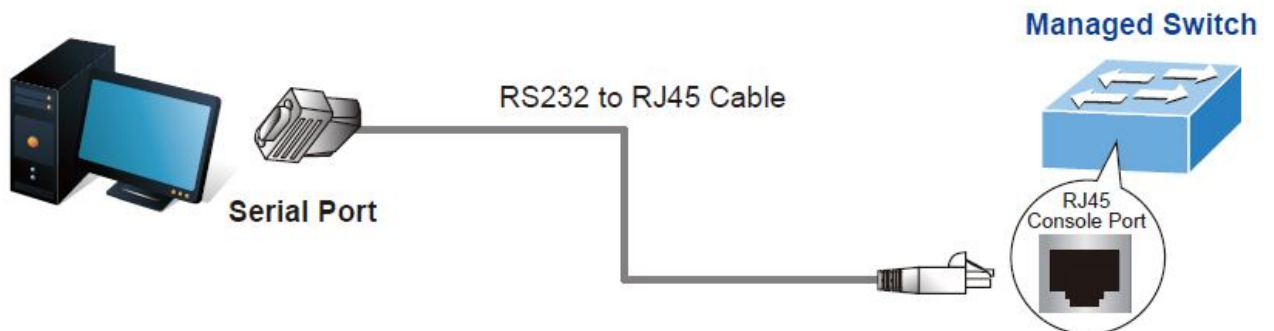
Figure 3-1: Managed Switch Console Connectivity

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

1. Run the 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

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 to log in with user name and password. The factory default user name and password are shown as follows, and the login screen in Figure 3-2 appears.

- **Username:** admin
- **Password:** admin

```
Press any key to continue
Username: admin
Password: *****
GS-4210#
```

Figure 3-2: 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.

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

Configuring IP Address via the Console

The Managed Switch is shipped with the 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:

Showing the current IP address

1. At the "GS-4210 Series#" prompt, enter "show ip".
2. The screen displays the current IP Address, Subnet Mask and Gateway as shown in Figure 3-3.

```
Press any key to continue
Username: admin
Password: *****
GS-4210# show ip
IP Address: 192.168.0.100
Subnet Netmask: 255.255.255.0
Default Gateway: 192.168.0.254
```

Figure 3-3: IP Information Screen

Configuring IP address

3. At the "GS-4210 Series#" prompt, enter "configure".
4. At the "GS-4210 Series(config)#" prompt, enter the following command and press <Enter> as shown in Figure

3-4.

GS-4210 Series(config)# ip address 192.168.1.100 mask 255.255.255.0

GS-4210 Series(config)# ip default-gateway 192.168.1.254

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

1. **IP Address:** 192.168.1.100

2. **Subnet Mask:** 255.255.255.0

3. **Gateway:** 192.168.1.254

```
Press any key to continue
Username: admin
Password: *****
GS-4210# configure
GS-4210(config)# ip address 192.168.1.100 mask 255.255.255.0
GS-4210(config)# ip default-gateway 192.168.1.254
```

Figure 3-4: IP Address Screen

5. 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 GS-4210 Managed Switch Series through the new IP address.

Storing Current Switch Configuration
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 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 "GS-4210 Series#" prompt, enter "copy running-config startup-config" as shown in Figure 3-5.

```
Press any key to continue
Username: admin
Password: *****
GS-4210# copy running-config startup-config
Success
```

Figure 3-5: Storing Current Configuration Command Screen

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

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, if 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.
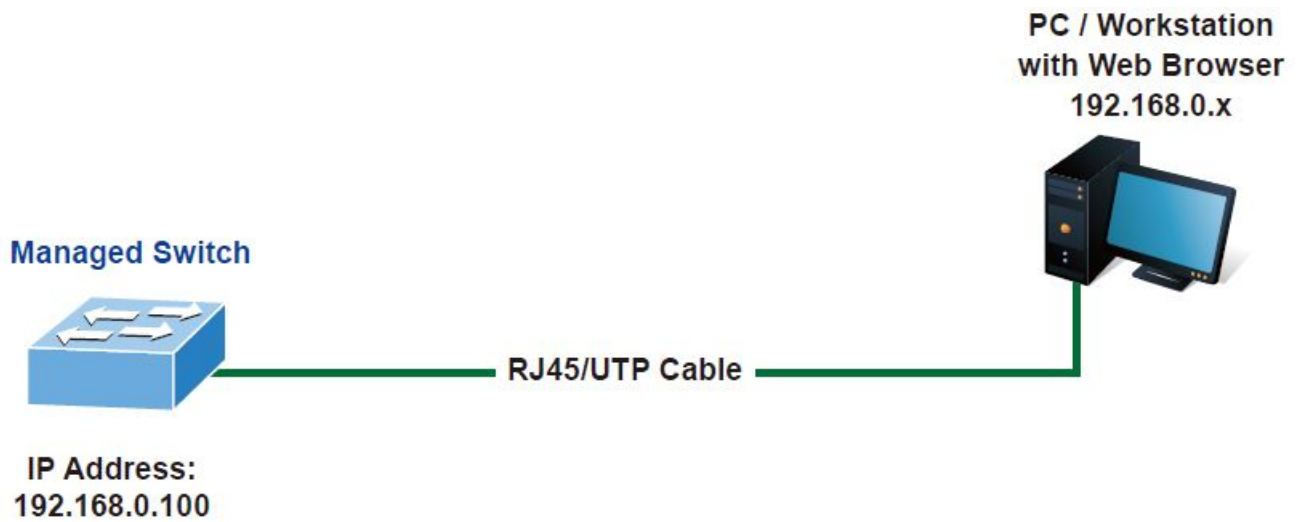
Figure 4-1: IP Management Diagram

Logging in to the Managed Switch

1. Use Chrome 98.0.xxx or above Web browser and enter the IP address **https://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 4-2 appears.
   - **Default Username:** admin
   - **Default Password:** admin

Figure 4-2: Login Screen

3. After entering the password, the main screen appears as Figure 4-3 shows.

Figure 4-3: Web Main Screen of Managed Switch

The Switch Menu on the top of the Web page lets you access all the commands and statistics the Managed Switch provides. The Switch Menu always contains one or more buttons, such as "System", "Switching","QoS", "Security", "Ring" "PoE" and "Maintenance".
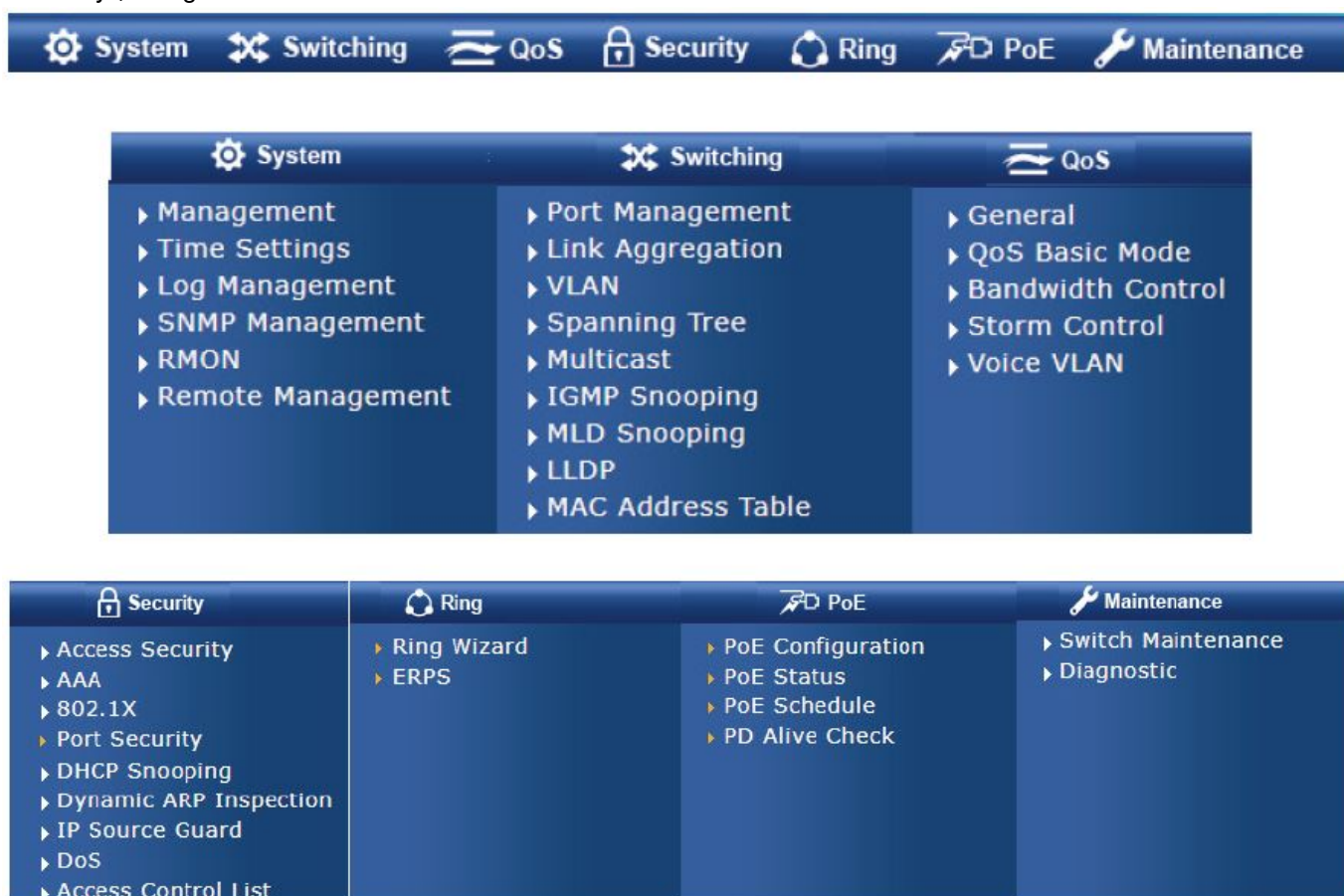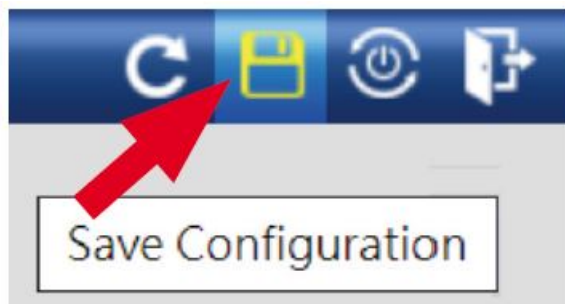

Figure 4-4: Switch Menu

Now, you can use the Web management interface to continue the Switch management. Please refer to the user's manual for more.

Saving Configuration via the Web
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 log in to the "Configuration Manager" page.

2. Press the "Apply" button to save the running configuration to start up the configuration.


Recovering Back to Default Configuration

**The IP address has been changed or the 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-based reset button on the front panel for about 10 seconds. After the device is rebooted, you can log in to the management Web interface within the same subnet of 192.168.0.xx.
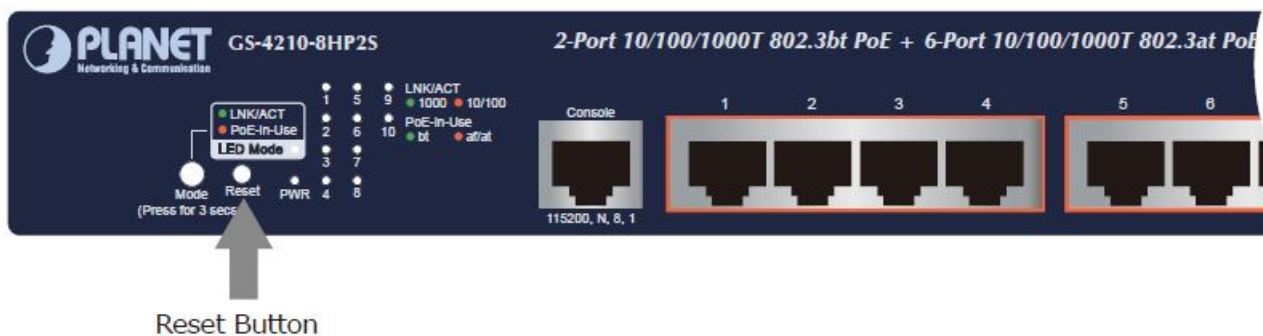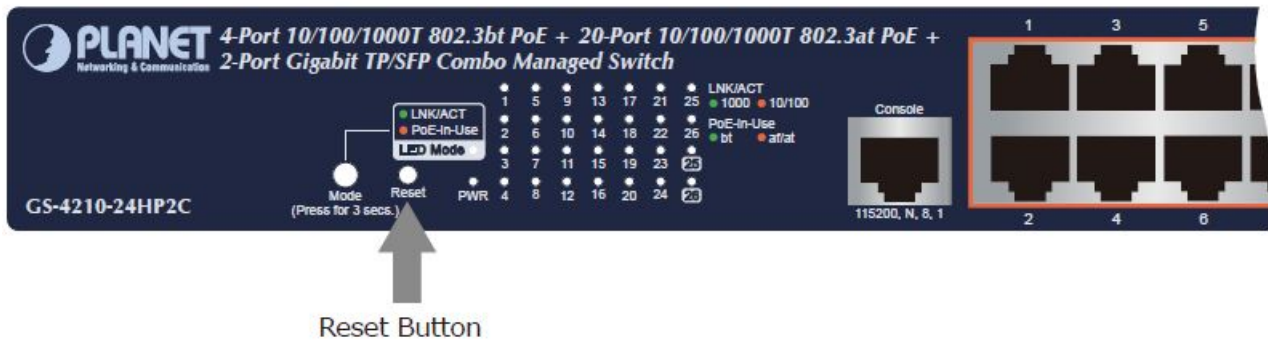

Reset Button

Figure 5-1: GS-4210-8HP2S Reset Button
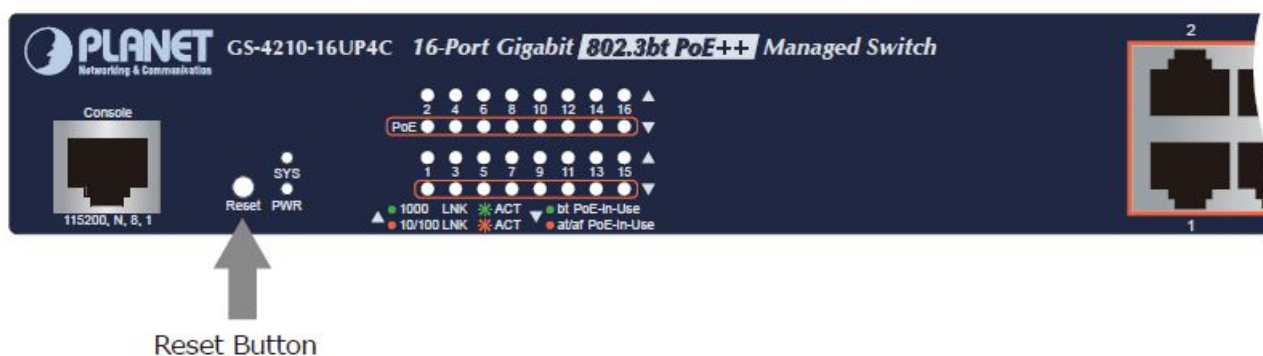
Reset Button

Figure 5-2: GS-4210-16UP4C Reset Button
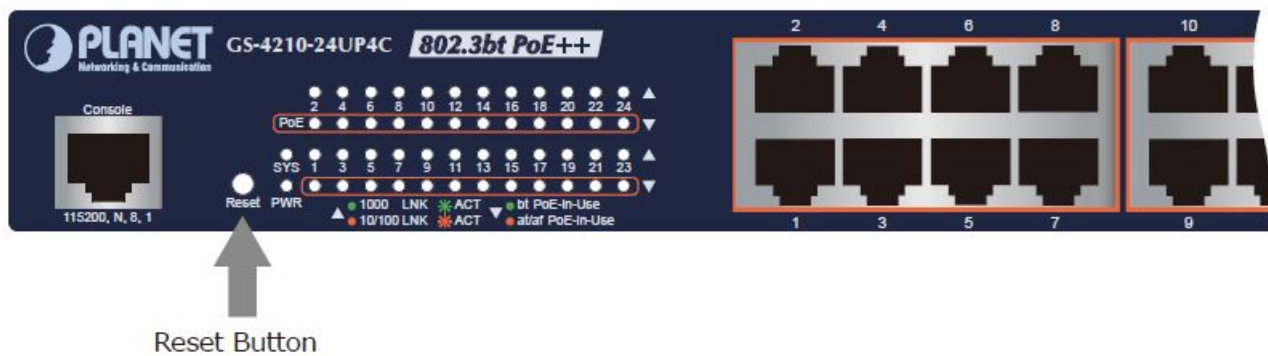
Figure 5-3: GS-4210-24UP4C Reset Button

Figure 5-4: GS-4210-24HP2C Reset Button

Customer Support

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

PLANET online FAQs:
https://www.planet.com.tw/en/support/faq

Support team mail address:
support@planet.com.tw

GS-4210 802.3bt PoE Series User's Manual:
https://www.planet.com.tw/en/support/download. php?&method=keyword&keyword=GS-4210&view=3#list

(Please select your switch model name from the Product Model drop-down menu)

Documents / Resources

PLANET GS-4210 802.3bt PoE++ Series L2/L4 Managed Gigabit Ethernet Switch [pdf] Installation Guide

GS-4210 802.3bt PoE Series L2 L4 Managed Gigabit Ethernet Switch, GS-4210 802.3bt PoE Series L2 Managed Gigabit Ethernet Switch, L2 Managed Gigabit Ethernet Switch, GS-4210 802.3bt PoE Series L4 Managed Gigabit Ethernet Switch, L4 Managed Gigabit Ethernet Switch, Gigabit Ethernet Switch, Gigabit Switch, Ethernet Switch, Switch

L2/L4 Managed Gigabit Ethernet Switch

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