

**Industrial L2+ Multi-Port Full Gigabit
Managed Ethernet Switch**

**IGS-5225-4T2S/IGS-5225-4UP1T2S/IGS-5225-8P2S/
IGS-5225-8P4S/IGS-5225-8T2S2X/IGS-5225-8P2S2X**

Quick Installation Guide

Table of Contents

1. Package Contents.....	3
2. Requirements.....	5
3. Wiring the Power Inputs	6
4. Terminal Setup.....	8
5. Logon to the Console.....	9
6. Configuring IP address.....	11
7. Starting Web Management	14
8. Saving Configuration via Web.....	17
9. Resetting the Switch to Default	18
10. Customer Support.....	20

1. Package Contents

Thank you for purchasing PLANET L2+ Industrial Managed Switch, IGS-5225 Series. The descriptions of these models are as follows:

IGS-5225-4T2S:	Industrial L2+ 4-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch
IGS-5225-4UP1T2S:	Industrial L2+ 4-Port 10/100/1000T Ultra PoE + 1-Port 10/100/1000T + 2-Port 100/1000X SFP Managed Switch
IGS-5225-8P2S:	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP Managed Ethernet Switch
IGS-5225-8P4S:	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 4-Port 100/1000X SFP Managed Ethernet Switch
IGS-5225-8T2S2X:	Industrial L2+ 8-Port 10/100/1000T + 2-Port 100/1000X SFP + 2-Port 10G SFP+ Managed Ethernet Switch
IGS-5225-8P2S2X:	Industrial L2+ 8-Port 10/100/1000T 802.3at PoE + 2-Port 100/1000X SFP + 2-Port 10G SFP+ Managed Ethernet Switch

“**Industrial Managed Switch**” mentioned in this Quick Installation Guide refers to the above six models.

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

- The Industrial Managed Switch x 1
- Quick Installation Guide x 1
- DIN Rail Kit x 1
- Wall Mounting Kit x 1
- DB9 to RJ45 Interface RS232 Console Cable x 1
- Dust Cap (Please refer to the table below.)

	RJ45 Dust Cap	SFP Dust Cap
IGS-5225-4T2S	5	2
IGS-5225-8P2S	9	2
IGS-5225-8P4S	9	4
IGS-5225-8T2S2X	9	4
IGS-5225-8P2S2X	9	4
IGS-5225-4UP1T2S	6	2

If any of these are missing or damaged, please contact your dealer immediately. If possible, retain the carton including the original packing materials to enable you to repack the product in case there is a need to return it to us for repair.

2. Requirements

The Industrial Managed Switch provides remote login interface for management purposes. The following equipment is necessary for further management:

- **Workstations** running Windows XP/2003/Vista/7/8/2008/10, 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-RS232 converter.
 - The above Workstations have been installed with terminal emulator, such as Hyper Terminal included in Windows XP/2003, putty or tera term.
 - Serial cable -- one end is attached to the RS232 serial port, while the other end to the console port of the Industrial 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 Internet Explorer 8.0 or above to access the Industrial Managed Switch.

3. Wiring the Power Inputs

The Upper Panel of the **Industrial Managed Switch** indicates a DC inlet power socket and consists of one terminal block connector within 6 contacts. Please follow the steps below to insert the power wire.

1. Insert positive/negative DC power wires into Contacts 1 and 2 for Power 1, or Contacts 5 and 6 for Power 2.

- IGS-5225-8P2S/IGS-5225-8P4S/IGS-5225-8P2S2X/IGS-5225-4UP1T2S: 48~56V DC

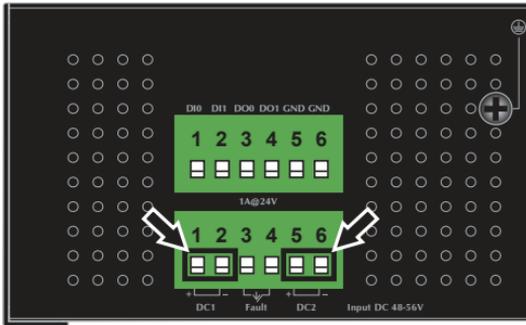


Figure 3-1: IGS-5225-8P2S/IGS-5225-8P4S/IGS-5225-8P2S2X/IGS-5225-4UP1T2S Upper Panel

- IGS-5225-8T2S2X: 12~48V DC, 24V AC

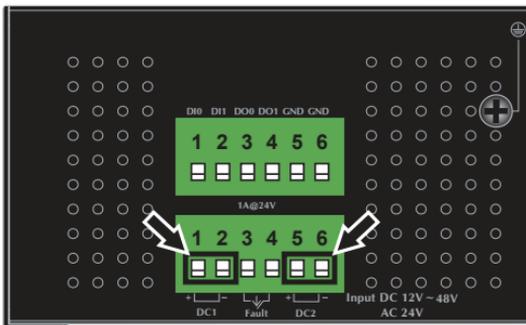


Figure 3-2: IGS-5225-8T2S2X Upper Panel

■ IGS-5225-4T2S: 12~48V DC, 24V AC

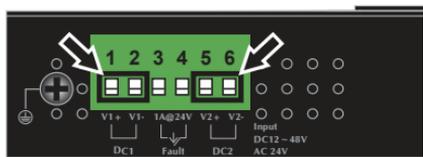


Figure 3-3: IGS-5225-4T2S Upper Panel

2. Tighten the wire-clamp screws for preventing the wires from loosening.



1	2	3	4	5	6
V+	V-			V+	V-
Power 1				Power 2	

	Positive (+) Pin	Negative (-) Pin
IGS-5225 Series	Pin 1/5	Pin 2/6

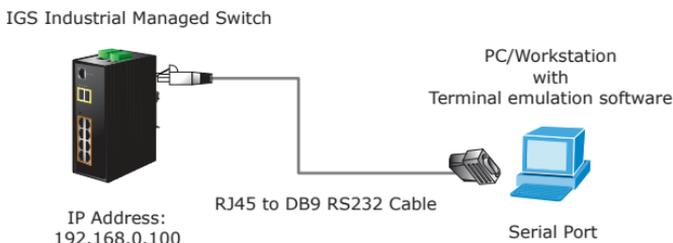


Note

The wire gauge for the terminal block should be in the range from **12 to 24 AWG**.

4. Terminal Setup

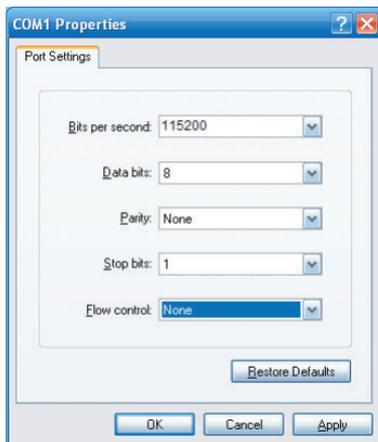
To configure the system, connect a serial cable to a COM port on a PC or notebook computer and to RJ45 type serial (console) port of the Industrial Managed Switch. The console port of the Industrial Managed Switch is DCE already, so that you can connect the console port directly through PC without the need of null modem.



A terminal program is required to make the software connected to the IGS-5225 series Industrial 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
- Parity: None
- Data bits: 8
- Stop bits: 1
- Flow control: None



5. Logon to the Console

Once the terminal has been connected to the device, power on the Industrial Managed Switch and the terminal will display “running testing procedures”.



Note

The following terminal configuration takes IGS-5225-8P4S for example.

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 5-1 appears

User name: **admin**

Password: **admin**

```
HyperTerminal
File Edit View Call Transfer Help
Password: +RAM: 0x80000000-0x88000000 [0x80021978-0x87fe0000 available]
FLASH: 0x40000000-0x40ffffff, 256 x 0x10000 blocks
== Executing boot script in 3.000 seconds - enter ^C to abort
> fis load -d managed
Image loaded from 0x80040000-0x80ef55d4
> go
exit
Press ENTER to get started
Username:
```

Figure 5-1: Console Login Screen

The user can now enter commands to manage the Industrial 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.

6. Configuring IP address

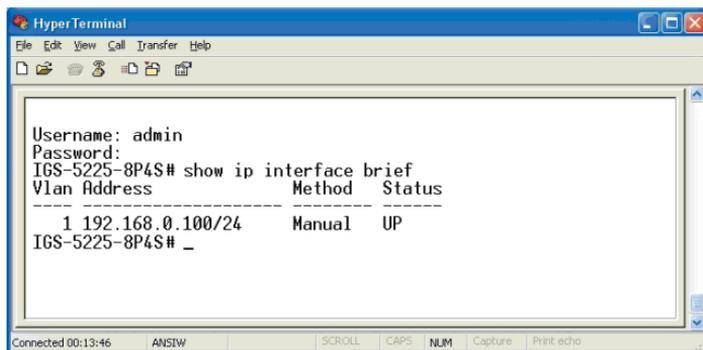
The Industrial Managed Switch is shipped with default IP address shown below:

```
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 procedure 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 6-1.



```
HyperTerminal
File Edit View Call Transfer Help
[Icons]
Username: admin
Password:
IGS-5225-8P4S# show ip interface brief
Vlan Address Method Status
-----
1 192.168.0.100/24 Manual UP
IGS-5225-8P4S# _
Connected 00:13:46 ANSIV | SCROLL CAPS NUM Capture Print echo
```

Figure 6-1: IP Information Screen

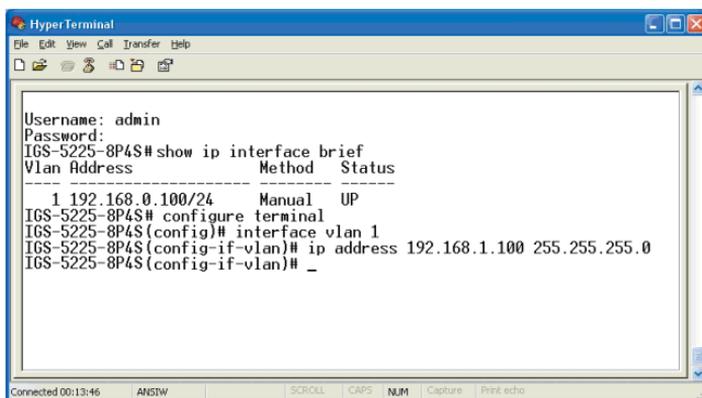
■ Configuration of the IP Address

3. At the “#” prompt, enter the following command and press **<Enter>** as shown in Figure 6-2.

```
IGS-5225-8P4S# configure terminal
IGS-5225-8P4S (config)# interface vlan 1
IGS5225-8P4S (config-if-vlan)# ip address 192.168.1.100
255.255.255.0
```

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

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



```
HyperTerminal
File Edit View Call Transfer Help
[Icons]
Username: admin
Password:
IGS-5225-8P4S# show ip interface brief
Vlan Address Method Status
-----
1 192.168.0.100/24 Manual UP
IGS-5225-8P4S# configure terminal
IGS-5225-8P4S(config)# interface vlan 1
IGS-5225-8P4S(config-if-vlan)# ip address 192.168.1.100 255.255.255.0
IGS-5225-8P4S(config-if-vlan)# _
Connected 00:13:46 ANSIV SCROLL CAPS NUM Capture Print echo
```

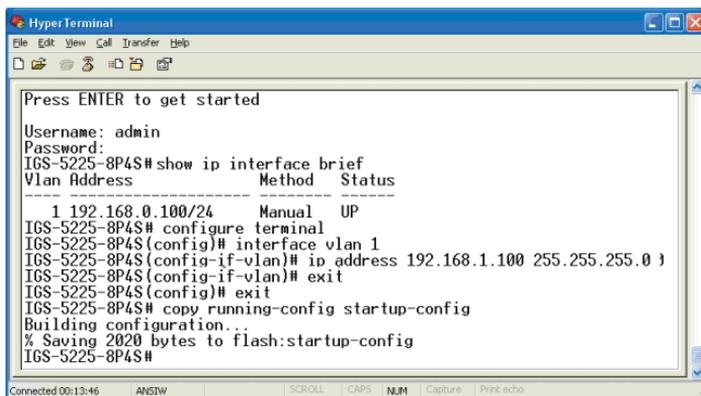
Figure 6-2: Configuring IP Address Screen

4. Repeat step 1 to check if the IP address has 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
Press ENTER to get started
Username: admin
Password:
IGS-5225-8P4S# show ip interface brief
Vlan Address          Method  Status
-----
1 192.168.0.100/24    Manual  UP
IGS-5225-8P4S# configure terminal
IGS-5225-8P4S(config)# interface vlan 1
IGS-5225-8P4S(config-if-vlan)# ip address 192.168.1.100 255.255.255.0
IGS-5225-8P4S(config-if-vlan)# exit
IGS-5225-8P4S(config)# exit
IGS-5225-8P4S# copy running-config startup-config
Building configuration...
% Saving 2020 bytes to flash:startup-config
IGS-5225-8P4S#
```

Figure 6-3: Saving Current Configuration Command Screen

If the IP is successfully configured, the Industrial Managed Switch will apply the new IP address setting immediately. You can access the Web interface of the Industrial 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.

7. Starting Web Management

The following shows how to start up the **Web Management** of the Industrial Managed Switch. Note the Industrial 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 default IP address of the Industrial 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.

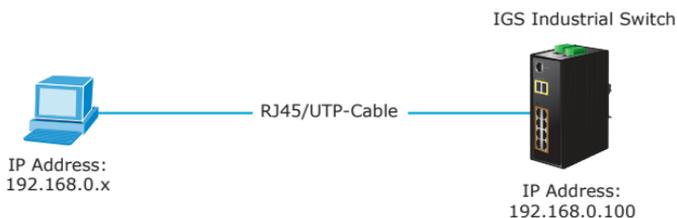


Figure 7-1: IP Management Diagram

Logging in to the Industrial Managed Switch

1. Use Internet Explorer 8.0 or above for Web browser and enter IP address **http://192.168.0.100** (the factory-default IP address) to access the Web interface.
2. When the following dialog box appears, please enter the default user name "**admin**" and password "**admin**" (or the password you have changed before) as shown in Figure 7-2.

Default IP Address: **192.168.0.100**

Default User Name: **admin**

Default Password: **admin**



Figure 7-2: Login Screen

3. After entering the password, the main screen appears as shown in Figure 7-3.

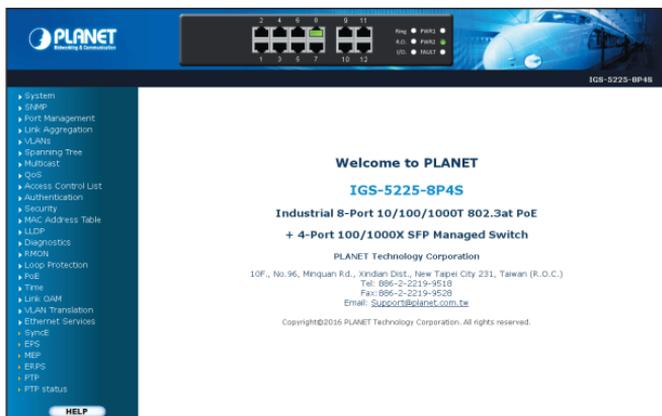


Figure 7-3: Web Main Screen of Industrial Managed Switch

The Switch Menu on the left of the Web page lets you access all the functions and status the Industrial Managed Switch provides.



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



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.

8. Saving Configuration via Web

In the Industrial 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.



9. Resetting the Switch to Default

To reset the IP address to the default IP address “**192.168.0.100**” and the user password to factory default mode (default password is **admin**), 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 and default password. Be noted that all the previous setups will be disappeared after the factory default reset is made.

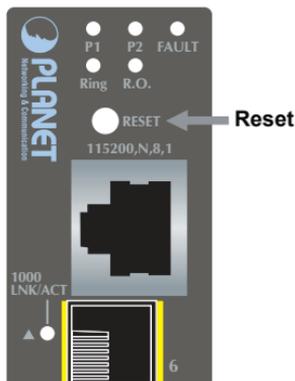


Figure 8-1: IGS-5225-4T2S Reset Button

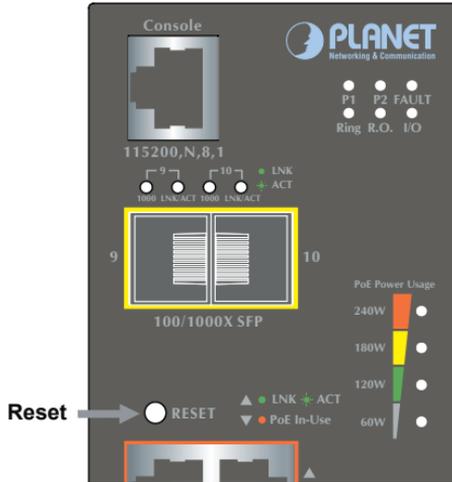


Figure 8-2: IGS-5225-8P2S/IGS-5225-4UP1T2S Reset Button

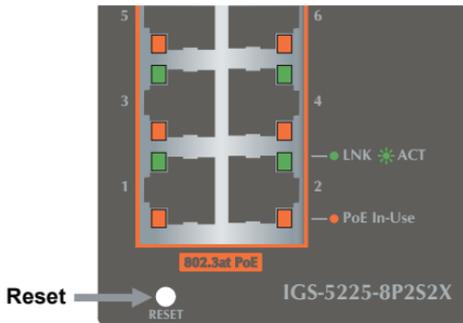


Figure 8-3: IGS-5225-8P4S/IGS-5225-8T2S2X/IGS-5225-8P2S2X Reset Button

10. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource 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>

Switch support team mail address:

support_switch@planet.com.tw

IGS-5225-4T2S/IGS-5225-8P2S/IGS-5225-8P4S/IGS-5225-8T2S2X/
IGS-5225-8P2S2X/IGS-5225-4UP1T2S User's Manual:

<http://www.planet.com.tw/en/support/download.php?type1=22153&model=&type=3>



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

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