

**Industrial L3 Multi-Gigabit/10Gigabit
Managed Ethernet Switch**

IGS-6325-4T2X/IGS-6325-4UP2X/IGS-6325-5X1T

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET L3 Multi-Gigabit/10Gigabit Industrial Managed Switch, IGS-6325-4T2X/IGS-6325-4UP2X/IGS-6325-5X1T. “**Industrial Managed Switch**” mentioned in this Quick Installation Guide refers to the above models.

The descriptions of these models are shown below:

IGS-6325-4T2X	Industrial L3 4-Port 2.5GBASE-T + 2-Port 10G SFP+ Managed Ethernet Switch
IGS-6325-4UP2X	Industrial L3 4-Port 2.5GBASE-T 802.3bt PoE + 2-Port 10G SFP+ Managed Ethernet Switch
IGS-6325-5X1T	Industrial L3 5-Port 10GBASE-X SFP+ + 1-Port 10GBASE-T Managed Ethernet Switch

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

	IGS-6325-4T2X	IGS-6325-4UP2X	IGS-6325-5X1T
The Industrial Managed Switch	■	■	■
DB9 to RJ45 Interface RS232 Console Cable	■	■	■
Quick Installation Guide sheet	■	■	■
Wall Mounting Kit	■	■	■
RJ45 Dust Cap	5	5	2
SFP Dust Cap	2	2	5

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 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-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**.



Note

It is recommended to use Chrome 98.0.xxx or above to access the Industrial Managed Switch.

3. Wiring the Power Inputs

The Upper Panel of the **Industrial Managed Switch** indicates an inlet power socket and consists of one green terminal block connector with 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.

■ DC 9-48V, AC 24V (IGS-6325-4T2X & IGS-6325-5X1T)

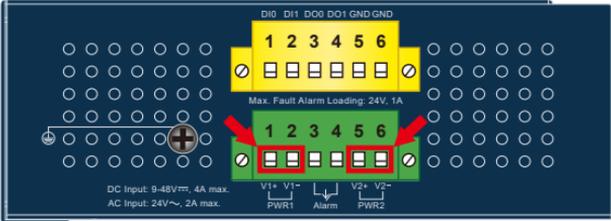


Figure 3-1: IGS-6325-5X1T Upper Panel

(Wiring methods also apply to IGS-6325-4T2X except different max. input current values)

Refer to the table below for the Input Voltage and Current Values for each model

	IGS-6325-4T2X	IGS-6325-5X1T
DC Input Voltage	9-48V DC	9-48V DC
Max. DC Input Current	3A	4A
AC Input Voltage	24V AC	24V AC
Max. AC Input Current	1.5A	2A

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

■ DC 48-54V (IGS-6325-4UP2X)

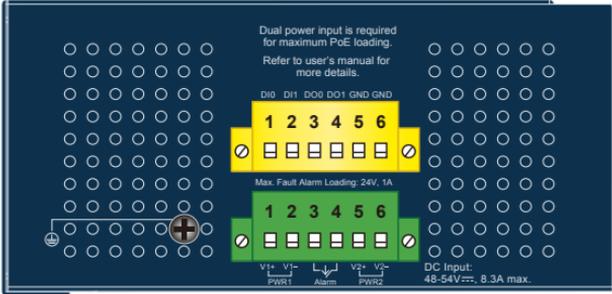


Figure 3-2: IGS-6325-4UP2X Upper Panel

	IGS-6325-4UP2X
DC Input Voltage	48-54VDC
Max. DC Input Current	8.3A



Caution

PWR1 and PWR2 must provide **exactly the same DC voltage** for power load balance while operating with dual power input.

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

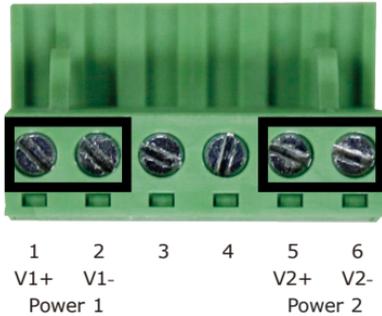


Figure 3-3: Power 1 & 2 Pins of Terminal Block Connector



Note

1. The wire gauge for the terminal block should be in the range from **12 to 24 AWG**.
2. Please check the AWG Ampere specification before connecting PLANET Industrial Managed Switch.

3.1 Grounding the Device

Users **MUST** complete grounding wired with the device; otherwise, a sudden lightning could cause fatal damage to the device.

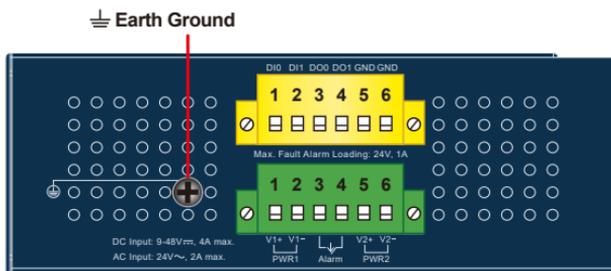


Figure 3-4: Grounding Method (applies to all three models)



Note

LIGHTNING DAMAGE IS NOT COVERED UNDER WARRANTY.

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.

IGS Industrial Managed Switch



RJ45 to DB9 RS232 Cable

PC/Workstation with
Terminal Emulation Software



A terminal program is required to make the software connected to the 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



4.1 Logging on to the Console

Once the terminal is connected to the device, power on the Industrial 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.



Note

The IGS-6325-4T2X is used as a representative in all the following console screens.

Username: **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" followed by the last six lowercase characters of the MAC ID.

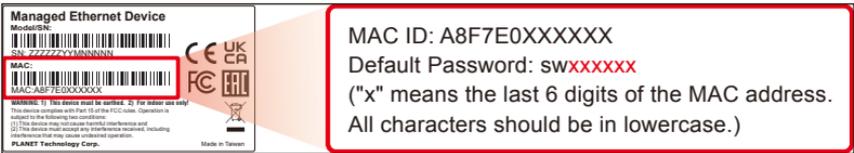


Figure 4-1: MAC ID Label

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.

```
(New)Password:
Verify (New)Password:
The password is set successfully.

Press ENTER to get started

Username: admin
Password:
IGS-6325-4T2X#
```

Figure 4-2: Create a New Password and Login Again

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.

4.2 Configuring IP Address via Console

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 assign a new IP address to the Switch, please use the commands as follows

■ Display of the Current IP Address

1. At the “#” prompt, enter “**show ip interface brief**”.

```
IGS-6325-Series # show ip interface brief
```

2. The screen displays the current IP address shown in Figure 4-3.

```
IGS-6325-4T2X# show ip interface brief  
Interface Address Method Status  
-----  
VLAN 1 192.168.0.100/24 Manual UP  
IGS-6325-4T2X#
```

Figure 4-3: IP Information Screen

■ Configuration of the IP Address

3. At the “#” prompt, enter the following command and press <Enter> as shown in Figure 4-4.

```
IGS-6325-Series# configure terminal  
IGS-6325-Series(config)# interface vlan 1  
IGS-6325-Series(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
```

```
IGS-6325-4T2X# configure terminal  
IGS-6325-4T2X(config)# interface vlan 1  
IGS-6325-4T2X(config-if-vlan)# ip address 192.168.1.100 255.255.255.0  
IGS-6325-4T2X(config-if-vlan)#
```

Figure 4-4: Configuring IP Address Screen

4. Enter "exit" command twice to return to the global configuration mode.
5. Repeat step 1 to check if the IP address has changed.

4.3 Storing the Current Switch Configuration

1. At the "#" prompt, enter the following command and press <Enter>.

```
# copy running-config startup-config
```

```
IGS-6325-412X# copy running-config startup-config
Building configuration...
% Saving 2850 bytes to flash:startup-config
IGS-6325-412X#
```

Figure 4-5: 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.

5. 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.

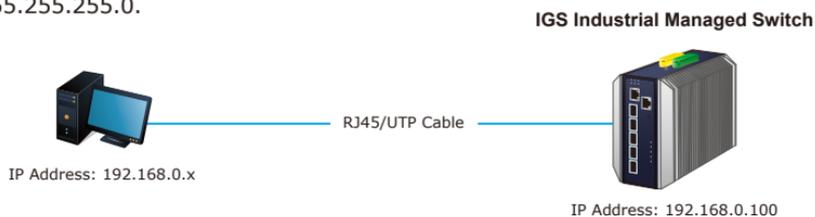


Figure 5-1: IP Management Diagram

5.1 Logging in to the Industrial Managed Switch

1. Use Chrome 98.0.xxx or above for Web browser and enter IP address **<https://192.168.0.100>** (the factory-default IP address) to access the Web interface.
2. When the following dialog box in **Figure 5-2** appears, please enter the default user name and password. Refer to **Section 4.1** to determine your initial login password.

Default Username: **admin**

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

The screenshot shows a web browser's authentication dialog. The title bar reads 'Authentication required'. Below it, the URL 'https://192.168.0.100' is displayed, followed by a warning: 'Your connection to this site is not private'. There are two text input fields: one for 'Username' and one for 'Password'. At the bottom right, there are two buttons: a blue 'Log in' button and a white 'Cancel' button with a grey border.

Figure 5-2: Login Screen

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



Figure 5-3: Web Main Screen of Industrial Managed Switch

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



Figure 5-4: Switch Menu

System	Switching	Routing	QoS
<ul style="list-style-type: none"> ▶ Management ▶ SNMP ▶ RMON ▶ DHCP Relay ▶ DHCP Server ▶ Industrial Protocol ▶ Remote Management 	<ul style="list-style-type: none"> ▶ Port Management ▶ Link Aggregation ▶ VLANs ▶ VLAN Translation ▶ Private VLANs ▶ VCL ▶ GVRP ▶ MRP ▶ Spanning Tree ▶ IGMP Snooping ▶ MLD Snooping ▶ MVR ▶ LLDP ▶ MAC Address Table ▶ Loop Protection ▶ UDLD ▶ Link OAM ▶ CFM ▶ sFlow ▶ PTP 	<ul style="list-style-type: none"> ▶ IP Configuration ▶ IP Status ▶ IPv4 Routing Info. Base ▶ IPv6 Routing Info. Base ▶ OSPF ▶ OSPF Database ▶ OSPFv3 ▶ OSPFv3 Database ▶ RIP ▶ Router 	<ul style="list-style-type: none"> ▶ General ▶ Bandwidth Control ▶ Storm Control ▶ Differentiated Services ▶ QCL ▶ Voice VLAN

Figure 5-5: Switch Sub-menu

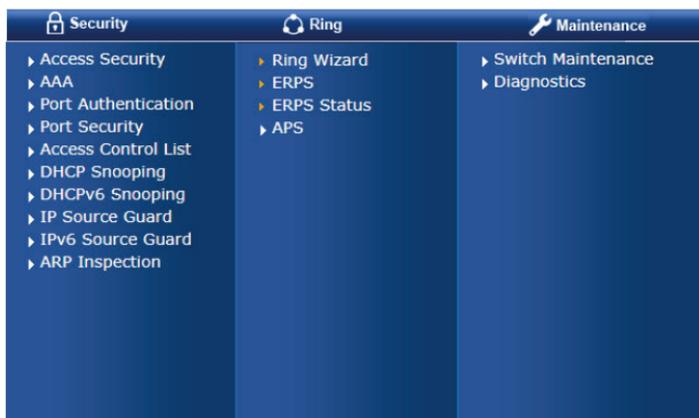


Figure 5-6: Switch Sub-menu

In addition to the menu items that IGS-6325-4T2X/IGS-6325-5X1T presents above, the IGS-6325-4UP2X which supports IEEE 802.3bt PoE also provides a specific menu item for related PoE functional settings.



Figure 5-6: Switch Sub-menu (ONLY for IGS-6325-4UP2X)

Now, you can use the Web management interface to continue the Switch management.



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.

5.2 Saving Configuration via Web

To save the current configuration as a startup configuration, click the “Save” icon, and then the startup configuration file will be loaded automatically across a system reboot.

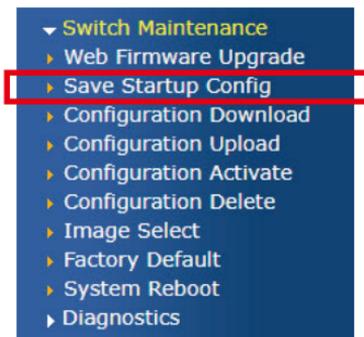
1. Click the **Save** icon on the top Switch Menu bar.



2. Press the “**Save Configuration**” button.



3. Or the other way to save the setting is to Click **Maintenance**, and **Save Startup Config**.



6. Restoring 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**” and the user password to factory default (default password is **admin**), press the recessed **reset button** on the front panel for about **10 seconds**. After the device reboots, you can log in the management Web interface within the same subnet of 192.168.0.xxx with default password. Please note that all the previous settings will disappear after resetting the switch to factory default.

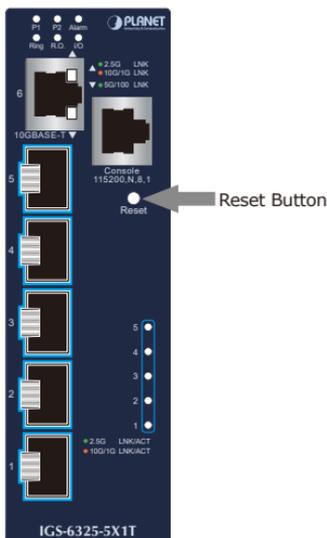


Figure 6-1: IGS-6325-5X1T Reset Button
(Reset button can be found on each model.)

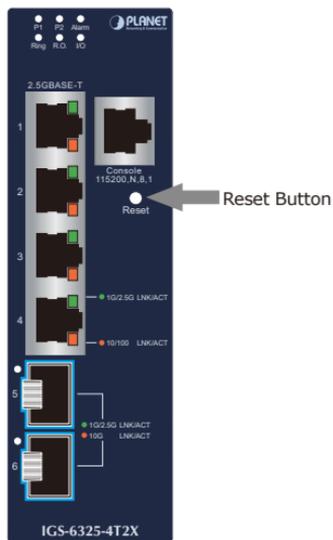


Figure 6-2: IGS-6325-4T2X Reset Button

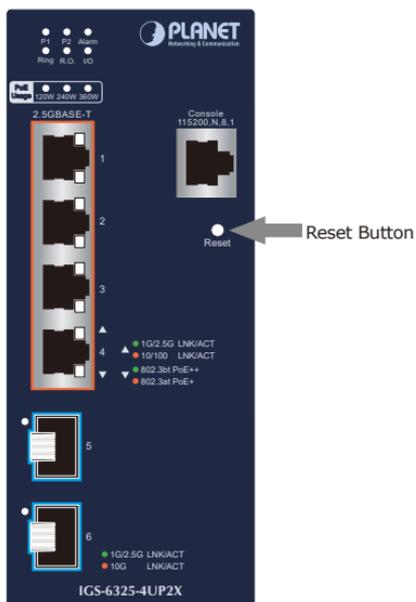


Figure 6-3: IGS-6325-4UP2X Reset Button

7. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource on PLANET web site 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

Industrial User's Manual:

<https://www.planet.com.tw/en/support/downloads?&method=keyword&keyword=IGS-6325&view=3#list>



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

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