

**Industrial L3 5-Slot Modular  
Managed Ethernet Switch**

**IMS-6325-5**

Quick Installation Guide

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# 1. Package Contents

Thank you for purchasing PLANET Industrial L3 Modular Managed Switch, IMS-6325-5. The description of the model is follows:

IMS-6325-5	Industrial Layer 3 5-Slot Modular Managed Ethernet Switch (-40~75 degrees C)
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“**Industrial Modular Managed Switch**” mentioned in this Quick Installation Guide refers to the above model.

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

	IMS-6325-5
The Industrial Modular Managed Switch	■
DB9 to RJ45 Interface RS232 Console Cable	■
Quick Installation Guide sheet	■
Wall Mounting Kit	■
DIN-rail Kit	2
RJ45 Dust Cap	5
SFP Dust Cap	4

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.



Note

Expansion cards are sold separately and come in two models to match your connectivity needs:

- IMS-4T for copper-based connections
- IMS-4S for fiber optic connections

Select and purchase the appropriate card based on your network infrastructure requirements.

## 2. Requirements

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

- **Workstations** running Windows 7/8/10/11, macOS 10.12 or later, Linux Kernel 2.6.18 or later, 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 SecureCRT, 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 Modular Managed Switch.
- **Ethernet Port Connection**
  - **Network cables** -- Use standard network (UTP) cables with RJ45 connectors.
  - The above PC is installed with a **Web browser**.



Note

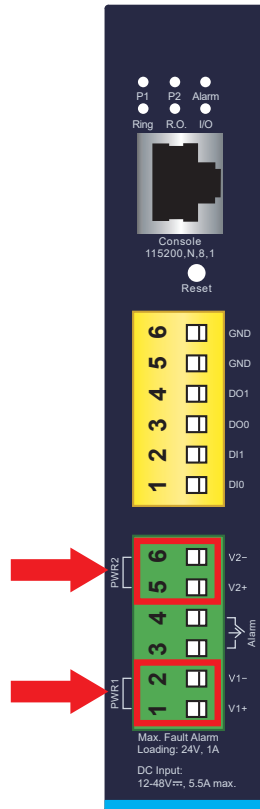
It is recommended to use Google Chrome, Microsoft Edge or Mozilla Firefox to access the Industrial Modular Managed Switch.

### 3. Wiring the Power Inputs

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

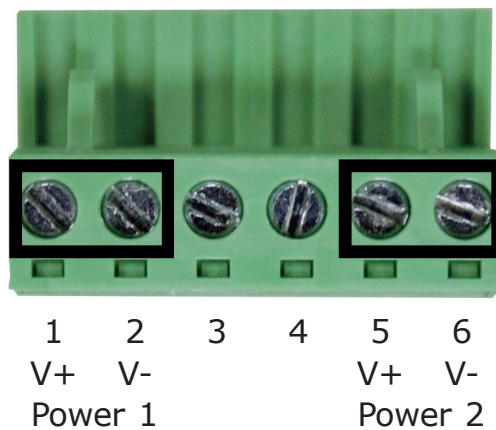
1. Insert positive and negative DC power wires into Contacts 1 and 2 for Power 1, or Contacts 5 and 6 for Power 2.

■ **IMS-6325-5:** DC 12-48V



**Figure 3-1:** IMS-6325-5 Front Panel

Tighten the wire-clamp screws to prevent the wires from loosening.



**Figure 3-2:** Pins of 6-contact 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 wire AWG Ampere specification before connecting PLANET Industrial Modular Managed Switch.

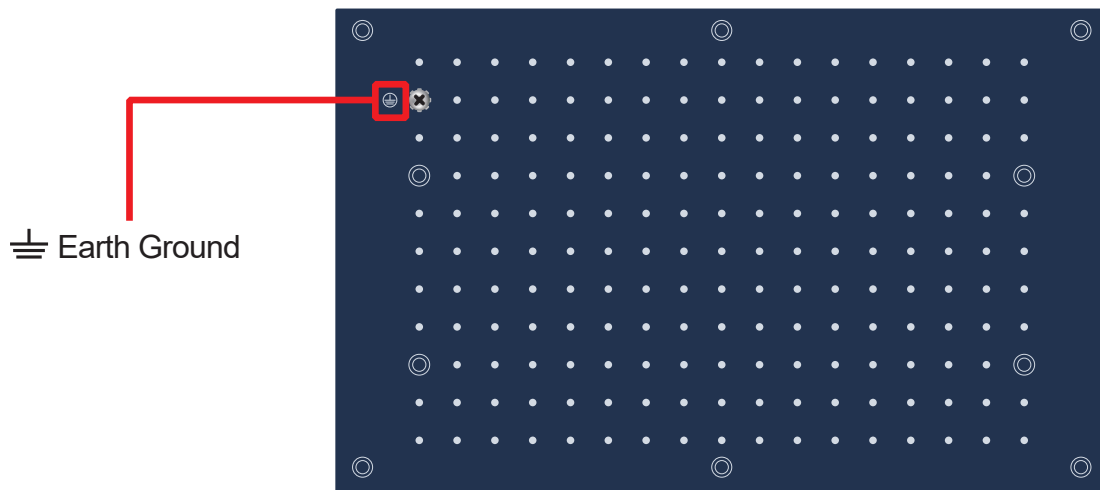


Caution

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

### 3.1 Grounding the Device

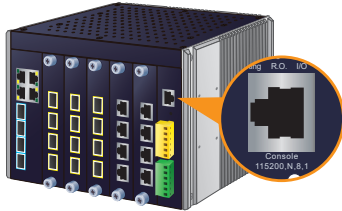
Users **MUST** complete grounding wired with the device; otherwise, a sudden lightning could cause fatal damage to the device.



## 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 Modular Managed Switch.

### Industrial Modular Switch



Console Port  
115200,N,8,1

### PC/Workstation with Terminal Emulation Software



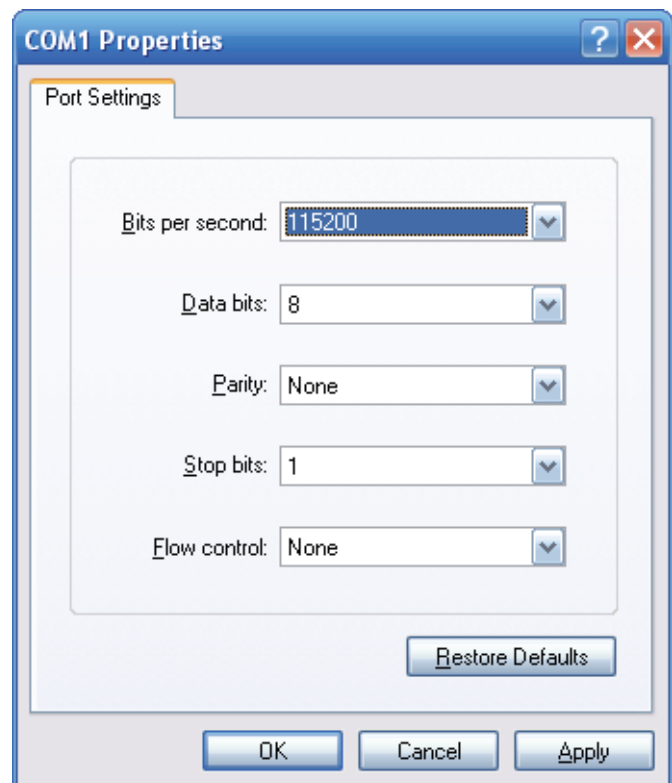
Serial Port

RJ45 to DB9 RS232 Cable

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



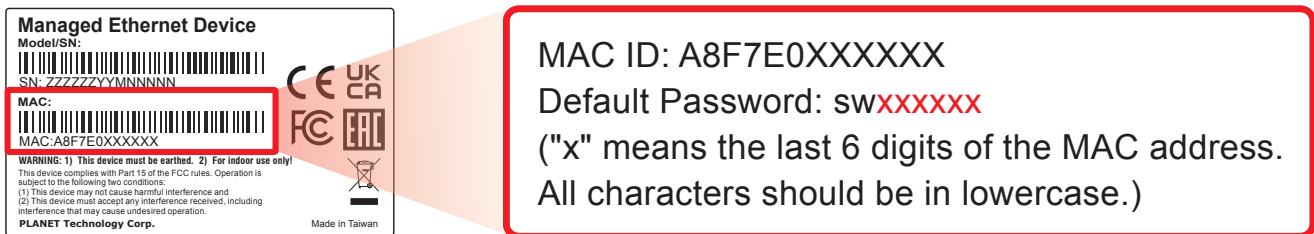
## 4.1 Logging on to the Console

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

Default Username: **admin**

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

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:  
IMS-6325-5#
```

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

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



## 4.2 Configuring IP Address via Console

The Industrial Modular Managed Switch is shipped with a 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 it to 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**”.

```
IMS-6325-5 # show ip interface brief
```

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

```
IMS-6325-5#show ip interface brief  
Interface Address Method Status  
-----  
VLAN 1 192.168.0.100/24 Manual UP  
IMS-6325-5#
```

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.

```
IMS-6325-5# configure terminal  
IMS-6325-5 (config)# interface vlan 1  
IMS-6325-5 (config-if-vlan)# ip address 192.168.1.100 255.255.255.0
```

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

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

```
IMS-6325-5# configure terminal  
IMS-6325-5(config)# interface vlan 1  
IMS-6325-5(config-if-vlan)# ip address 192.168.1.100 255.255.255.0  
IMS-6325-5(config-if-vlan)# █
```

Figure 4-4: Configuring IP Address Screen

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

## ■ Storing current switch configuration

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

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

```
IMS-6325-5# copy running-config startup-config
Building configuration...
% Saving 2691 bytes to flash:startup-config
IMS-6325-5# █
```

Figure 4-5: Saving Current Configuration Command Screen

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

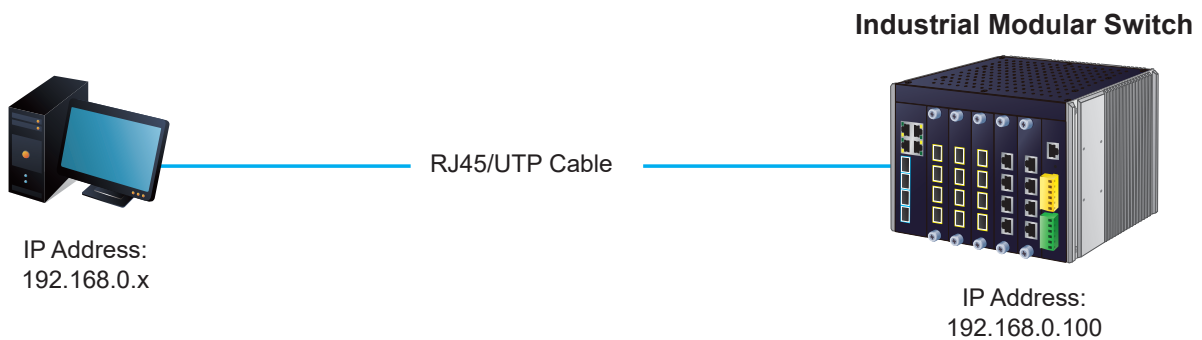


Figure 5-1: IP Management Diagram

### 5.1 Logging in to the Industrial Modular Managed Switch

1. Use your preferred web browser such as Chrome, Edge, Firefox, etc. 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 appears, please enter the default username and password as shown in Figure 5-2.

The screenshot shows a web browser's authentication dialog box. The title is "Authentication required" and the URL is "https://192.168.0.100". Below the URL, it says "Your connection to this site is not private". There are two input fields: "Username" and "Password". At the bottom right, there are two buttons: "Log in" (in blue) and "Cancel" (in grey).

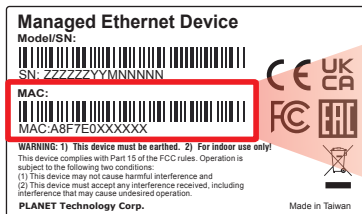
Figure 5-2: Login Screen

2.1 When the login dialog box appears, please enter the default user name **“admin”** and the default password.

Default IP Address: **192.168.0.100**

Default Username: **admin**

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



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

Figure 5-3: MAC ID Label

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

### Change Password

New Password	
<b>Password</b>	<input type="password"/> <input type="checkbox"/> show password
<b>Retype Password</b>	<input type="password"/>

The password must contain 8-31 characters, including upper case, lower case, numerals and other symbols. Please note, spaces (blanks) are not accepted.

Figure 5-4: Change Password Screen

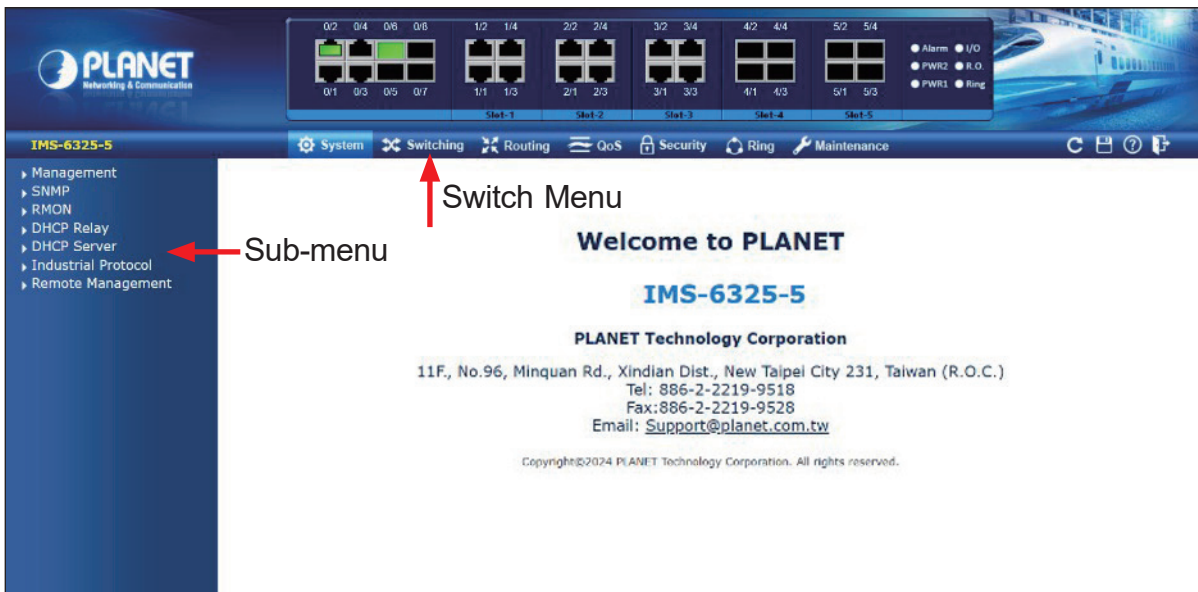


If you have already changed the password via console or web login, please use this new password to log in and skip steps 2.1 and 2.2.

3. Once the password change is complete, re-enter the web interface using your new password and the main screen appears as **Figure 5-5** shows.



**Figure 5-5:** Web Main Screen without Installed Expansion Cards

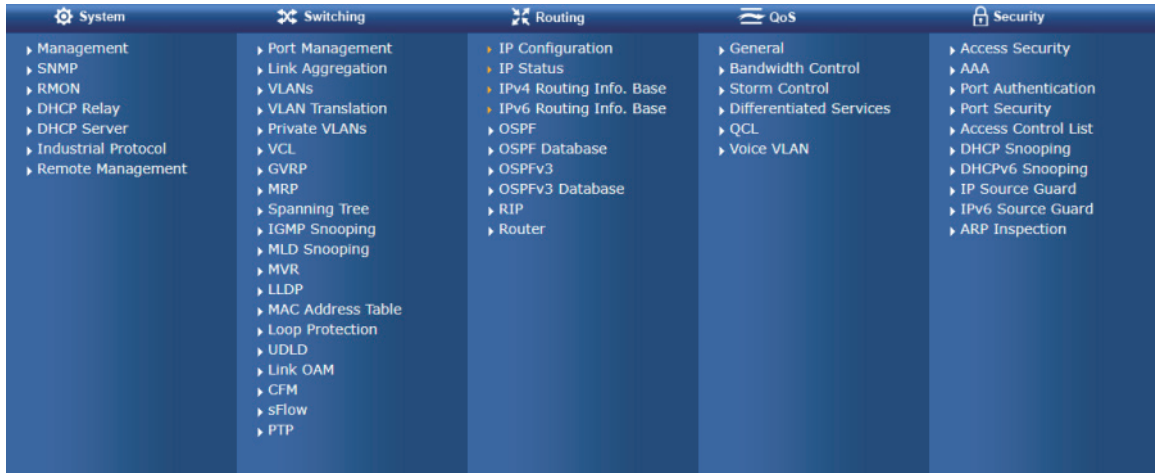


**Figure 5-6:** Web Main Screen with Fully Installed Expansion Cards

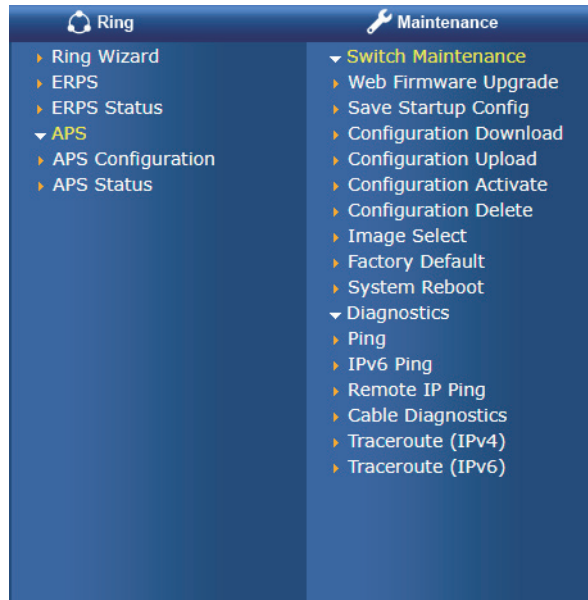
The Switch Menu on the top of the Web page lets you access all the commands and statistics the Industrial Modular Managed Switch provides. The Switch Menu always contains one or more buttons, such as **“System”**, **“Switching”**, **“Routing”**, **“QoS”**, **“Security”**, **“Ring”** and **“Maintenance”**.



**Figure 5-7:** Switch Menu



**Figure 5-8: Switch Sub-menu**



**Figure 5-9: Switch Sub-menu**

Now, you can access the Web management interface to continue managing the switch. For more detailed information, please refer to the user manual.



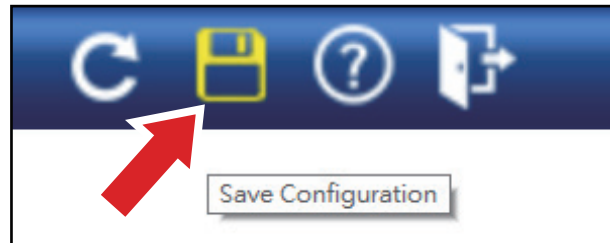
Note

If you're unfamiliar with any switch functions or parameters, click the **"Help"** icon on any Web page to view helpful descriptions.

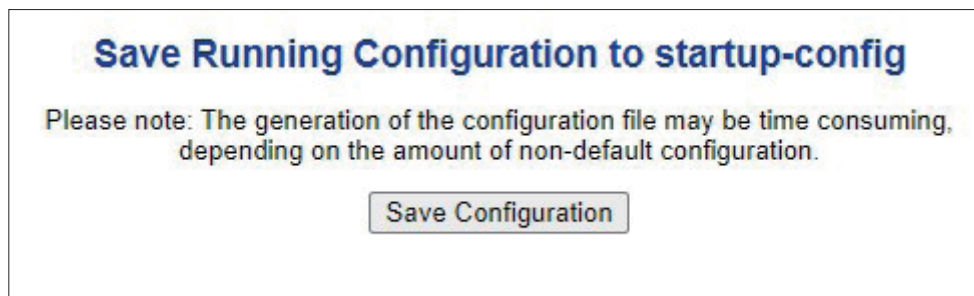
## 5.2 Saving Configuration via Web

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.

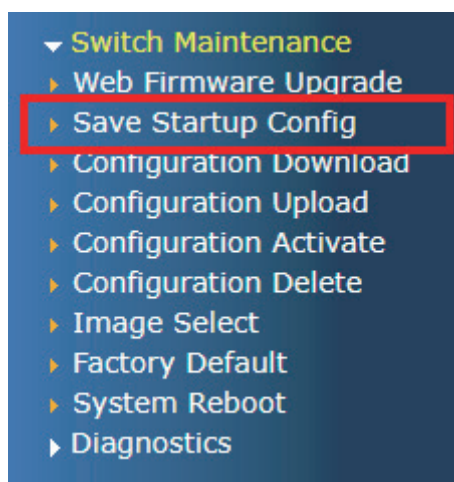
1. Click the **Save** icon on the top Switch Menu bar.



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



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



## 6. Installing the Expansion Cards into the Slots

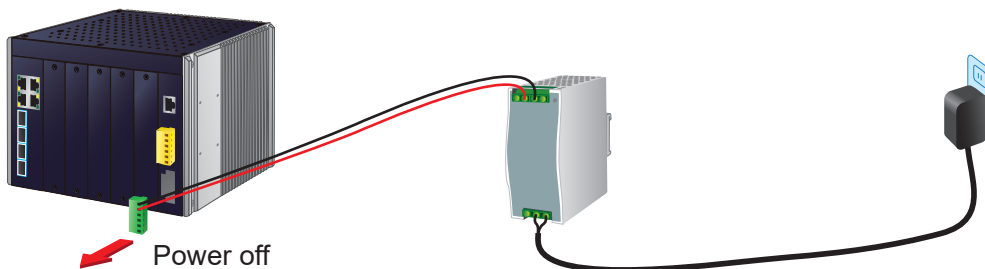
There are two types of expansion cards available to enhance the switching capabilities of the Industrial Modular Managed Switch. They are:

Model Name	Description
IMS-4T	4-Port 10/100/1000T Switch Module for IMS-6325-5 (-40~75 degrees C)
IMS-4S	4-Port 100/1000X SFP Switch Module for IMS-6325-5 (-40~75 degrees C)

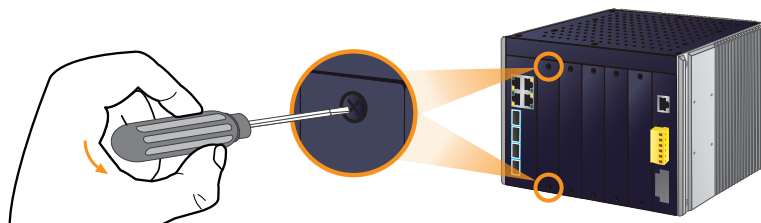
You can install any combination of cards into the 5 available slots on the Industrial Modular Managed Switch based on your requirements. If not all 5 slots are used, leave the blanking plate on the unused slots to prevent dust from entering.

To install the expansion card, please follow these steps:

1. Make sure the switch is completely powered off.

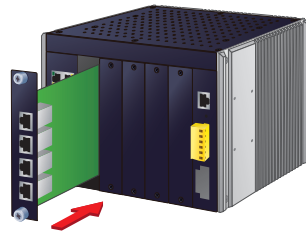


2. Loosen the thumbscrews of the blanking plate and remove it from the switch.

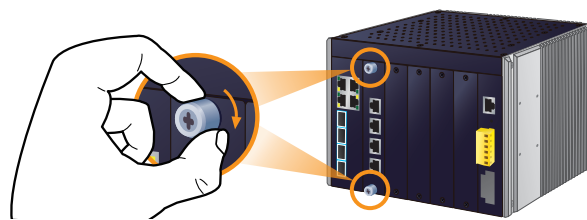




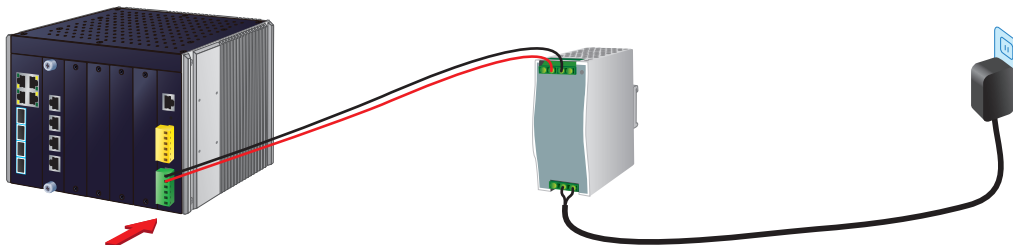
- Carefully slide the expansion card into the guide slot and ensure it is fully inserted into place.



- Tighten the thumbscrews to secure the expansion card, and then restore power to the switch.



- Once the switch is powered on, the expansion cards will be automatically detected and ready for use.



Reconnect the power terminal block and reboot the switch.

## 7. Restoring Default Configuration

■ If the IP address has been changed or the admin password has been forgotten –

To reset the IP address to the default "192.168.0.100" and restore the user password to the factory default (the default password is **based on MAC ID**), press and hold the **reset button** on the front panel for approximately **10 seconds**. Once the device reboots, you can access the management web interface within the same subnet of 192.168.0.xx using the default password. Please note that this action will erase all previous settings and restore the device to its factory default state.

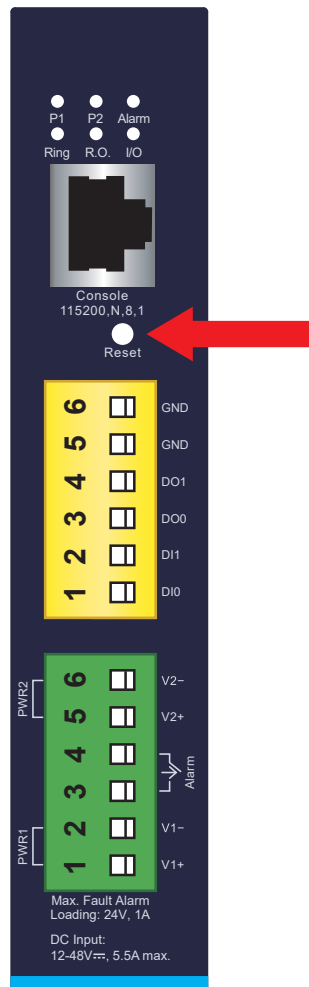


Figure 7-1: IMS-6325-5 Reset Button

## 8. Customer Support

Thank you for choosing PLANET products. For troubleshooting, we recommend checking our online FAQ section on the PLANET website first. If you require further assistance, please don't hesitate to contact the PLANET switch support team.

PLANET online FAQs:

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

Switch support team mail address:

[support@planet.com.tw](mailto:support@planet.com.tw)

IMS-6325-5 User's Manual:

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



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

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