Industrial L2+ Managed Gigabit Switch with 10G Uplink

IGS-4215 DIN-rail Series

Quick Installation Guide

Table of Contents

1. Package Contents 3
2. Requirements 5
3. Wiring the Power Inputs 6
    3.1 Grounding the Device 8
4. Terminal Setup 9
    4.1 Logging on to the Console 10
    4.2 Configuring IP Address via Console 11
    4.3 Storing Current Switch Configuration 12
5. Starting Web Management 13
    5.1 Logging in to the Industrial Managed Switch 13
    5.2 Saving Configuration via Web 15
6. Restoring Default Configuration 16
7. Customer Support 18

1. Package Contents

Thank you for purchasing one of PLANET L2+ Managed Gigabit Switch series. The descriptions of these models are shown below:

IGS-4215-8T4X	Industrial L2+ 8-Port 10/100/1000T + 4-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)
IGS-4215-8UP4X	Industrial L2+ 8-Port 10/100/1000T 802.3bt PoE + 4-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)
IGS-4215-16T4X	Industrial L2+ 16-Port 10/100/1000T + 4-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)
IGS-4215-16P4X	Industrial L2+ 16-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)
IGS-4215-24T4X	Industrial L2+ 24-Port 10/100/1000T + 4-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)
IGS-4215-24P4X	Industrial L2+ 24-Port 10/100/1000T 802.3at PoE + 4-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)

"Industrial Managed Switch" is used as an alternative name in this Quick Installation Guide.

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 Sheet x 1
- DIN-rail Kit x 1
- Wall Mounting Kit x 1
- CloudNMS App Quick Guide Sheet x 1
- CloudNMS App label sticker x1
- Dust Caps:

Model	RJ45 Dust Caps	SFP Dust Caps
IGS-4215-8T4X	8	4
IGS-4215-8UP4X	8	4
IGS-4215-16T4X	16	4
IGS-4215-24T4X	24	4
IGS-4215-16P4X	16	4
IGS-4215-24P4X	24	4

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

2. Requirements

- 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 USB ports.
  - The above Workstations have been installed with **terminal emulator**, such as Tera Term or PuTTY.
  - USB cable -- one end is attached to the USB Type A/Type C port on the workstation, while the other end is connected to the USB Type C console port of the Industrial Managed Switch.
- **Ethernet Port Connection**
  - Network cables -- Use standard network (UTP) cables with RJ45 connectors.
  - The above workstation is installed with Web browser.

Note

It is recommended to use Google Chrome, Microsoft Edge or Firefox to access the Industrial Managed Switch. If the Web interface of the Industrial Managed Switch is not accessible, please turn off the anti-virus software or firewall and then try it again.

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 and negative DC power wires into contacts 1 and 2 for Power 1 or 5 and 6 for Power 2.

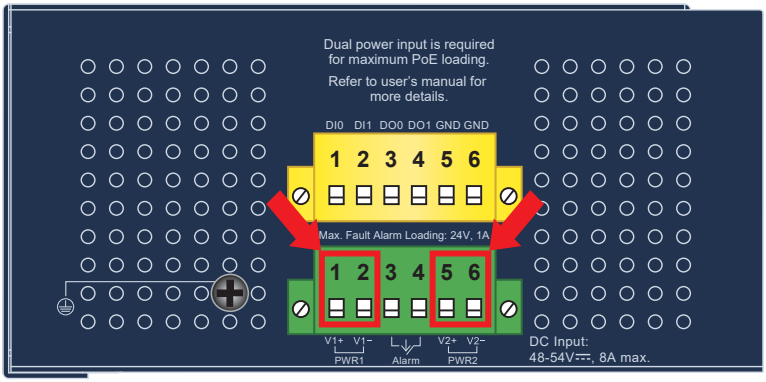


Figure 3-1: IGS-4215-8UP4X

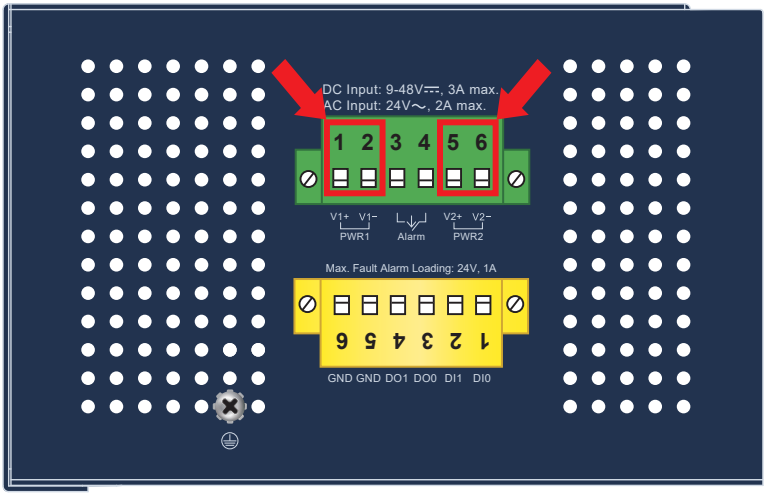


Figure 3-2: IGS-4215-24T4X (shown as a representative model)

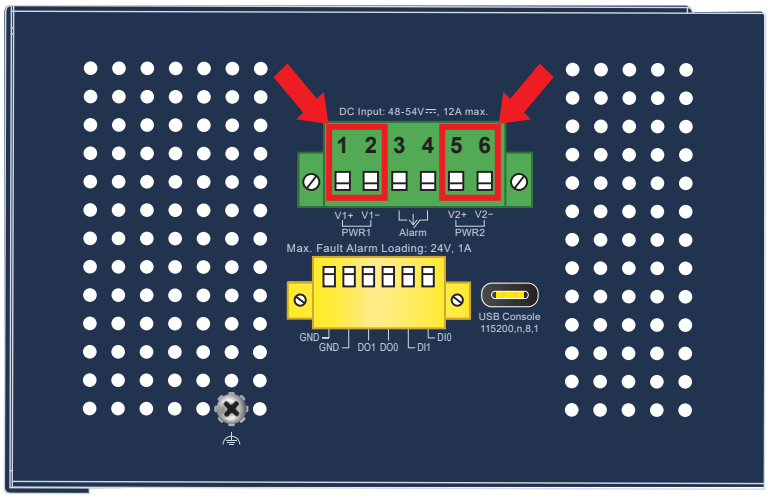
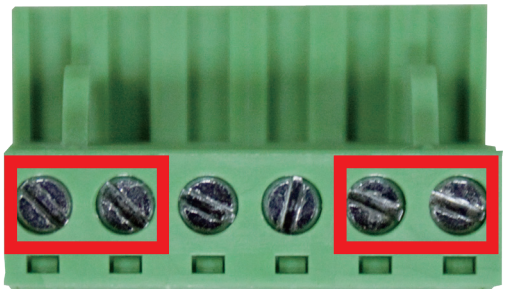


Figure 3-3: IGS-4215-24P4X

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



1 2 3 4 5 6
V1+ V1- V2+ V2-
Power 1 Power 2

Item	Positive (+) Pin	Negative (-) Pin
IGS-4215 Series	Pin 1/5	Pin 2/6

Note

1. The wire gauge for the terminal block should be in the range from **12** to **24 AWG**.
2. The power input range of each model is shown below:

Model	Input Power Range (DC)	Input Power Range (AC)
IGS-4215-8T4X	9V ~ 48V	24V
IGS-4215-8UP4X	48 ~ 54V	-
IGS-4215-16T4X	9V ~ 48V	24V
IGS-4215-16P4X	48 ~ 54V	-
IGS-4215-24T4X	9V ~ 48V	24V
IGS-4215-24P4X	48 ~ 54V	-

Caution

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

3.1 Grounding the Device

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

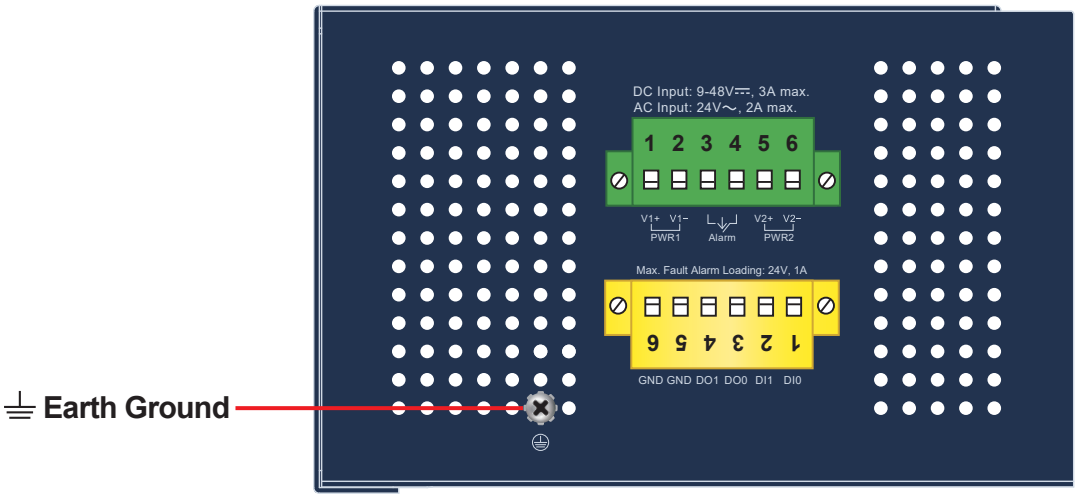


Figure 3-4: IGS-4215-24T4X (shown as a representative model)

4. Terminal Setup

To configure the system, connect one end of a USB data cable to a **USB port** on a PC or notebook computer and the other end to the USB Type-C console port of the Industrial Managed Switch.

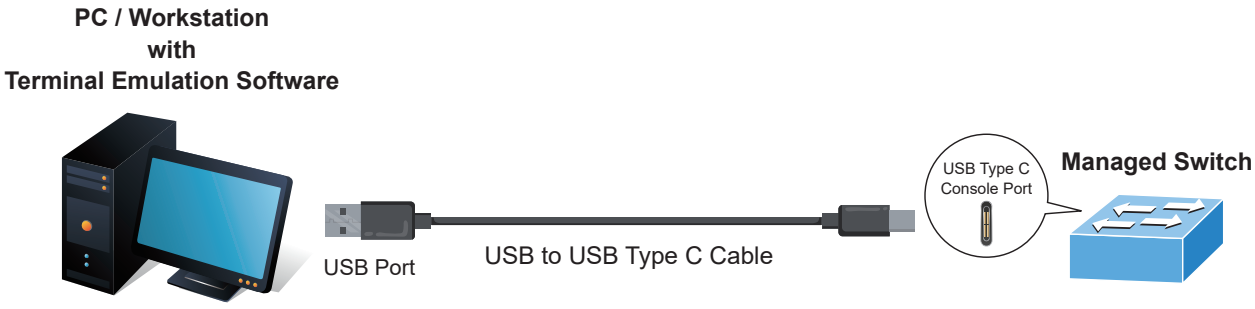


Figure 4-1: Industrial Managed Switch Console Connectivity

A terminal program is required to make the connection 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
   - Data bits: 8
   - Parity: None
   - Stop bits: 1
   - Flow control: None

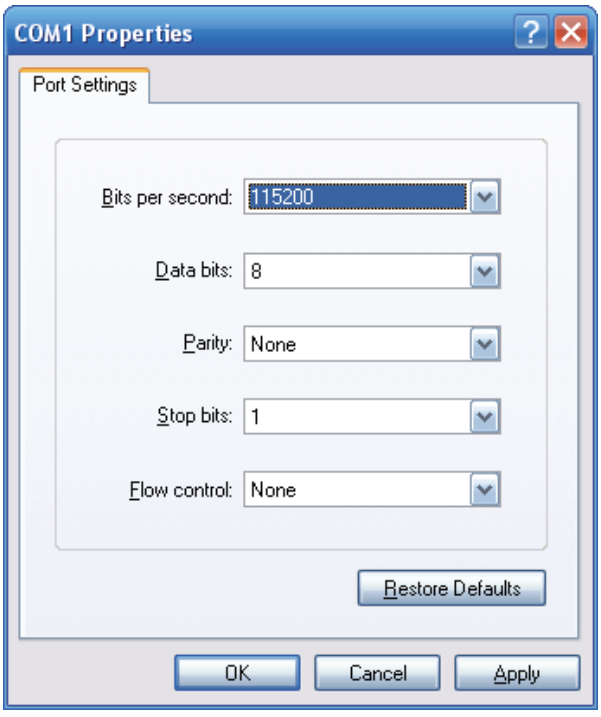


Figure 4-2: COM Port Configuration

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.

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.

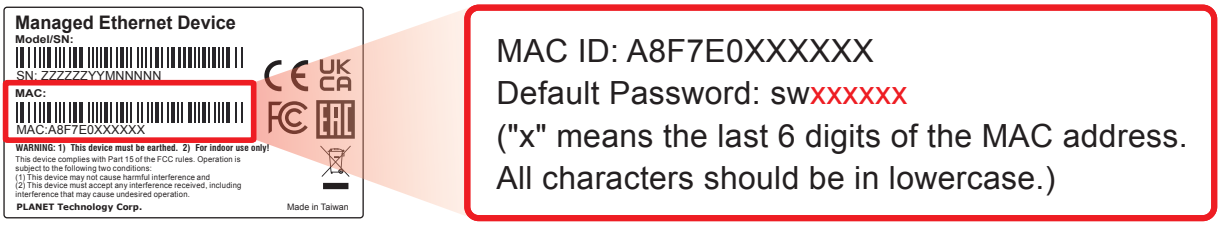


Figure 4-3: MAC ID Label

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: *********
Success.
Press any key to continue
Username: admin
Password: *********
IGS-4215-24T4X#
```

Figure 4-4: Create a New Password and Log In 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 IGS-4215 series supports IP static routing, which requires specific command lines to display and modify its IP settings.

The Industrial 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 Industrial Managed Switch, please use the procedure as follows:

■ Display of Current IP Address

1. At the **"IGS-4215-24T4X#"** prompt, enter the following command and press **<Enter>**.

IGS-4215-24T4X# **show vlan interface**

2. The screen displays the current IP address, as shown in **Figure 4-5**.

```
IGS-4215-24T4X# show vlan interface
VLAN |   IP Address    |  Network Mask  |  DHCP  |            IPv6 Address/prefix             | AutoConf |  DHCPv6
-----+----------------+----------------+--------+---------------------------------------------+----------+----------
   1|   192.168.0.100|   255.255.255.0| Disable|                 fe80::aaf7:e0ff:fe11:bb/64|    Enable|   Disable
IGS-4215-24T4X#
```

Figure 4-5: IP Information Screen

■ Configuration of the IP address

1. At the "IGS-4215-24T4X#" prompt, enter **"configure"**.
2. At the **"IGS-4215-24T4X(config)#"** prompt, enter the following command and press **<Enter>** as shown in **Figure 4-6**.

IGS-4215-24T4X(config)# **interface VLAN 1**
IGS-4215-24T4X(config-if-vlan)# **ip address 192.168.1.100 mask 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-4215-24T4X# configure
IGS-4215-24T4X(config)# interface VLAN 1
IGS-4215-24T4X(config-if-vlan)# ip address 192.168.1.100 mask 255.255.255.0
IGS-4215-24T4X(config-if-vlan)# end
IGS-4215-24T4X#
```

Figure 4-6: Configuring IP Address Screen

3. Repeat the previous steps to check if the IP address has changed.

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 Industrial Managed Switch through the new IP address.

4.3 Storing Current Switch Configuration

1. At the **"IGS-4215-24T4X#"** prompt, enter **"copy running-config startup-config"** as shown in Figure 4-7.

```
IGS-4215-24T4X# copy running-config startup-config
Success
IGS-4215-24T4X#
```

Figure 4-7: The Save Configuration Screen

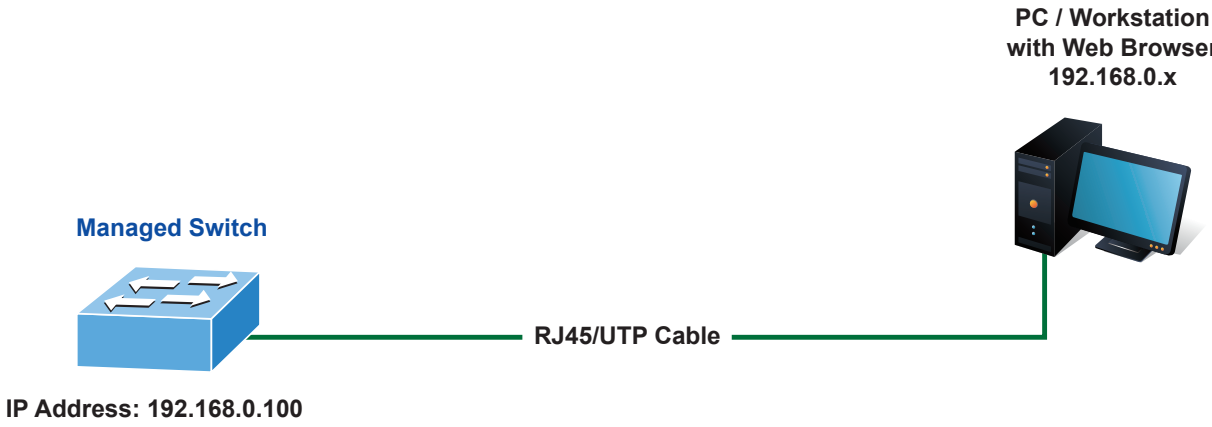
Note

If you are not familiar with console command or the related parameter, enter **"?"** 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.



5.1 Logging in to the Industrial Managed Switch

1. Use Google Chrome, Microsoft Edge or Firefox Web browser and enter IP address ***https://192.168.0.100*** to access the Web interface.
2. When the following dialog box in **Figure 5-1** appears, please enter the default user name and password Refer to **Section 4.1** to determine your initial login password.

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

Figure 5-1: Web Login Screen

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

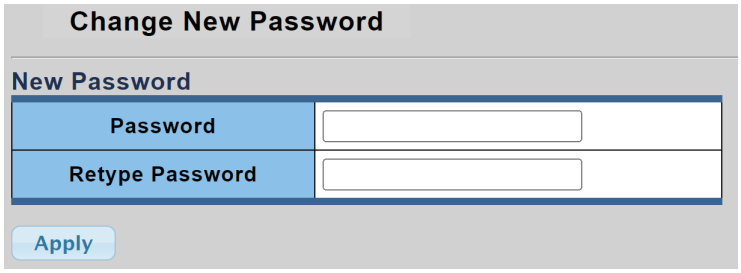


Figure 5-2: Create a New Password

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

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

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

Figure 5-4: Switch Menu

Figure 5-5: Switch Sub-menu

Figure 5-6: Switch Sub-menu

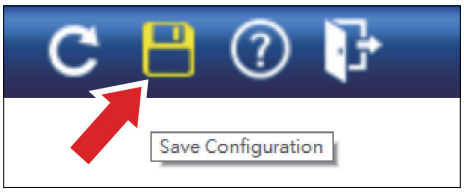
(Note that the IGS-4215-8UP4X/IGS-4215-16P4X/IGS-4215-24P4X model includes an additional PoE sub-menu.)

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

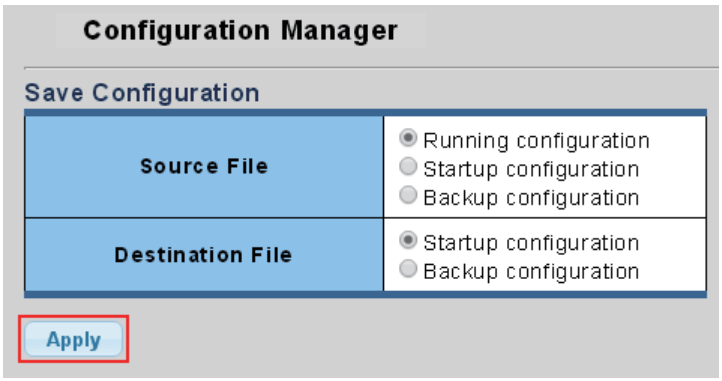
5.2 Saving Configuration via Web

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 **"Apply"** button to save running configuration to start up configuration.



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"** or reset the login password to 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 the management Web interface within the same subnet of 192.168.0.xx.

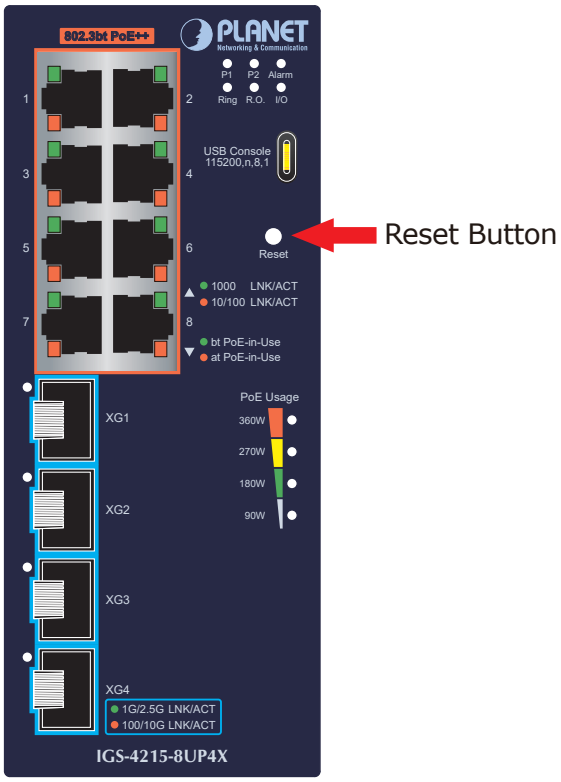


Figure 6-1: IGS-4215-8T4X/IGS-4215-8UP4X Reset Button

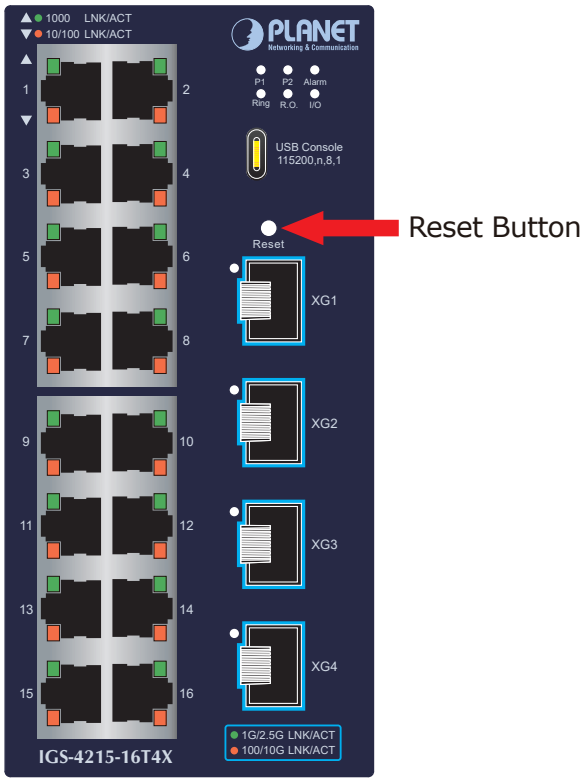


Figure 6-2: IGS-4215-16T4X/IGS-4215-16P4X Reset Button

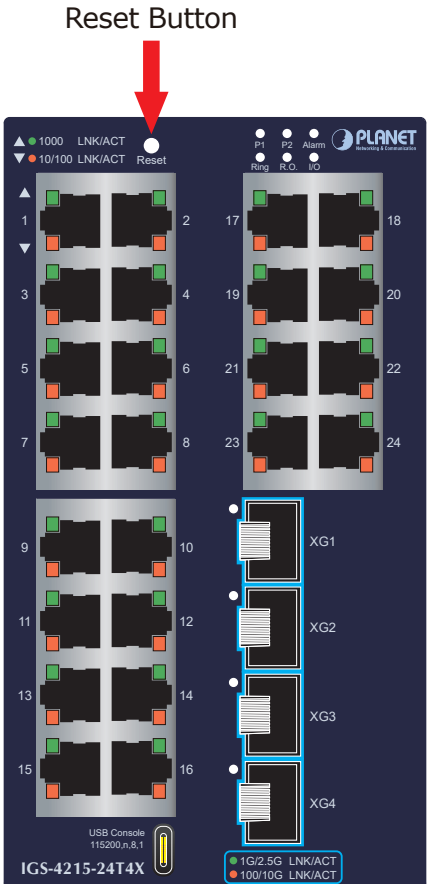


Figure 6-3: IGS-4215-24T4X/IGS-4215-24P4X Reset Button

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

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

IGS-4215 DIN-rail Series User's Manual:
https://www.planet.com.tw/en/support/downloads?&method=keyword&keyword=igs-4215&view=3#list

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

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