



Planet Technology Industrial L2, L4 Managed Gigabit Switch with 10G Uplink Installation Guide

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Planet Technology Industrial L2, L4 Managed Gigabit Switch with 10G Uplink



Specifications

- **Model:** IGS-4215-8T4X / IGS-4215-8UP4X / IGS-4215-16T4X
- **Type:** Industrial L2/L4 Managed Gigabit Switch with 10G Uplink
- **Temperature Range:** -40~75 degrees C
- **Ports:**
 - IGS-4215-8T4X: 8 x 10/100/1000T + 4 x 10G SFP+
 - IGS-4215-8UP4X: 8 x 10/100/1000T 802.3bt PoE + 4 x 10G SFP+
 - IGS-4215-16T4X: 16 x 10/100/1000T + 4 x 10G SFP+

Product Usage Instructions

Package Contents

Upon unpacking, the box should contain:

- The Industrial Managed Switch x 1
- Quick Installation Guide Sheet x 1
- Dust Caps for RJ45 and SFP ports
- DIN-rail Kit x 1
- Wall Mounting Kit x 1

Requirements

For proper usage, ensure the following:

- Workstations running compatible operating systems with TCP/IP protocols.
- Workstations have Ethernet NIC installed.

- Terminal emulator software like Tera Term or PuTTY is installed.
- USB cable for connecting to the USB Type C console port.
- Network cables with RJ45 connectors for Ethernet port connection.
- Web browser recommended: Google Chrome, Microsoft Edge, or Firefox.

Wiring the Power Inputs

To wire the power inputs, follow these steps:

1. Insert positive/negative DC power wires into contacts 1 and 2 for Power 1 or 5 and 6 for Power 2 on the green terminal block connector.
2. Dual power input is required for maximum PoE loading. Refer to the user's manual for more details.

FAQ

- **Q:** What should I do if any item is missing or damaged in the package?
- **A:** If any item is found missing or damaged, please contact your local reseller for a replacement.
- **Q:** Which web browsers are recommended for accessing the Industrial Managed Switch?
- **A:** It is recommended to use Google Chrome, Microsoft Edge, or Firefox to access the Industrial Managed Switch. If the Web interface is not accessible, try turning off anti-virus software or firewall.

Package Contents

Thank you for purchasing PLANET L2/L4 Managed Gigabit Switch. The descriptions of these models are shown below:

IGS-4215-8T4X	Industrial L2/L4 8-Port 10/100/1000T + 4-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)
IGS-4215-8UP4X	Industrial L2/L4 8-Port 10/100/1000T 802.3bt PoE + 4-Port 10G SFP+ Managed Ethernet Switch (-40~75 degrees C)
IGS-4215-16T4X	Industrial L2/L4 16-Port 10/100/1000T + 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
- Dust Caps

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

- DIN-rail Kit x 1
- Wall Mounting Kit x 1

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

Requirements

- Workstations running Windows 8/10/11, MAC OS X or later, Linux, UNIX, or other
- afforms 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 a Web browser.

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.

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 5 and 6 for Power 2.

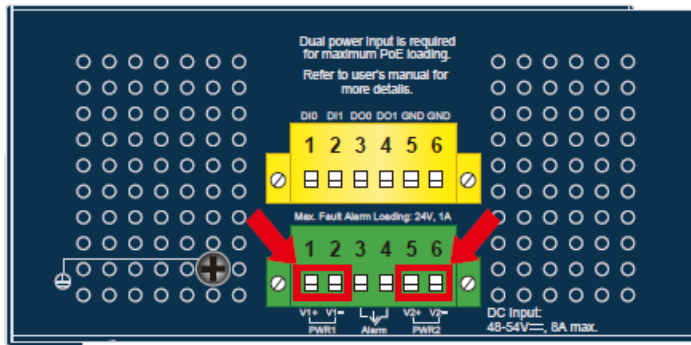
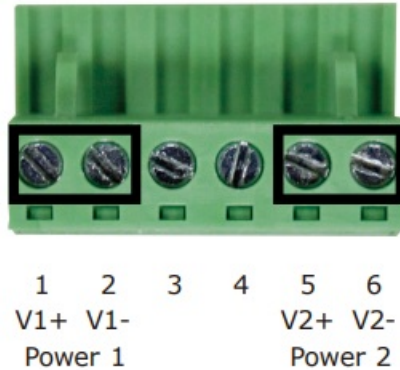


Figure 3-1: IGS-4215-8UP4X

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



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

1. The wire gauge for the terminal block should be in the range of 12 to 24 AWG.
2. The power input range of IGS-4215-8T4X and IGS-4215-16T4X is 9V ~ 48V DC and supports 24V AC.

Caution

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

Grounding the Device

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

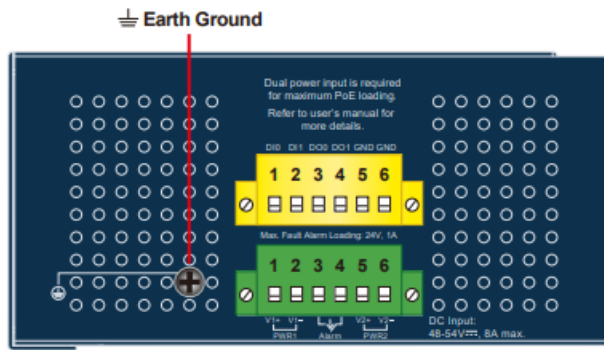


Figure 3-2: IGS-4215-8UP4X

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.

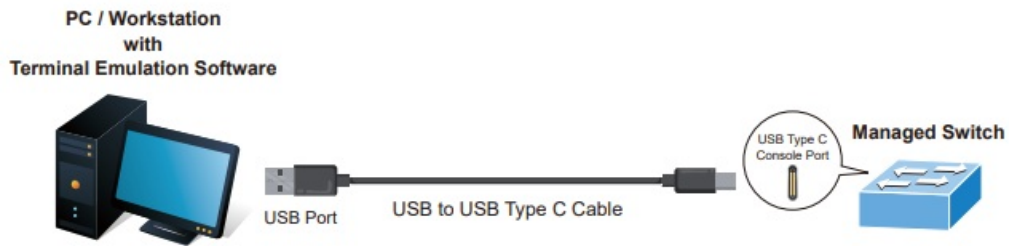


Figure 4-1: Industrial Managed Switch Console Connectivity

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

1. Run 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

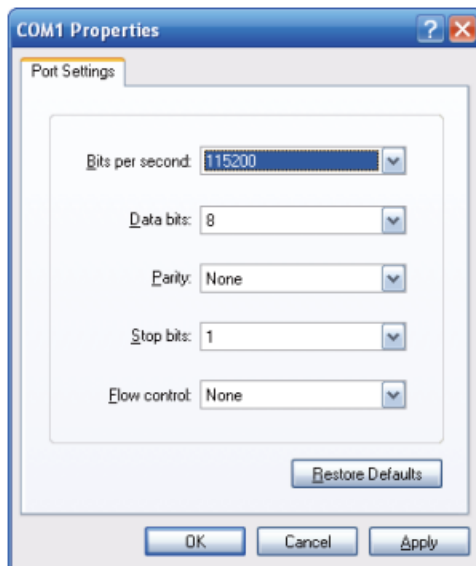


Figure 4-2: COM Port Configuration

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.

NOTE

The following console screen is based on the IGS-4215-8UP4X. The display of the IGS-4215-8T4X/IGS-4215-16T4X is the same.

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.

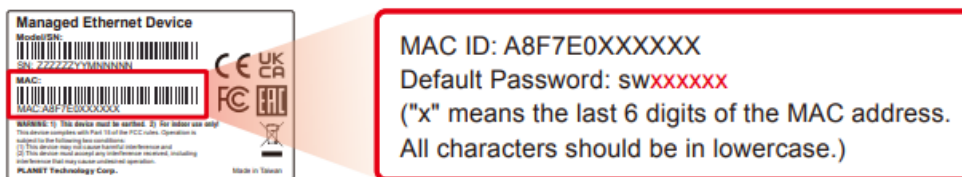


Figure 4-3: MAC ID Label

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.

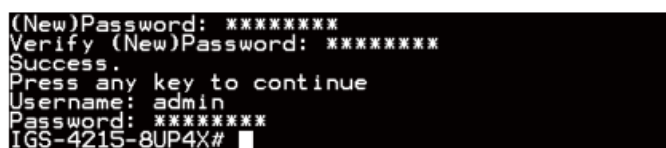


Figure 4-4: Create a New Password and Login Again

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

Configuring IP Address via Console

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 procedures as follows

Show the current IP address

1. At the “IGS-4215-8UP4X#” prompt, enter “show ip”.
2. The screen displays the current IP address, subnet mask and gateway as shown in Figure 4-5

```
Press any key to continue
Username: admin
Password: *****
IGS-4215-8UP4X# show ip
IP Address: 192.168.0.100
Subnet Netmask: 255.255.255.0
Default Gateway: 192.168.0.254
IGS-4215-8UP4X#
```

Figure 4-5: IP Information Screen

Configuration of the IP Address

3. At the “IGS-4215-8UP4X #” prompt, enter “configure”.
4. At the “IGS-4215-8UP4X (config)#” prompt, enter the following command and press <Enter> as shown in Figure 4-5.
 1. IGS-4215-8UP4X (config)# ip address 192.168.1.100 mask 255.255.255.0
 2. IGS-4215-8UP4X (config)# ip default-gateway 192.168.1.254

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

1. IP Address: 192.168.1.100
2. Subnet Mask: 255.255.255.0
3. Gateway: 192.168.1.254

```
IGS-4215-8UP4X(config)# ip address 192.168.1.100 mask 255.255.255.0
IGS-4215-8UP4X(config)# ip default-gateway 192.168.1.254
IGS-4215-8UP4X(config)#
```

Figure 4-6: IP Address Screen

5. Repeat Step 1 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 the Industrial Managed Switch through the new IP address

Storing Current Switch Configuration

1. At the “IGS-4215-8UP4X#” prompt, enter “copy running-config startup-config” as shown in Figure 4-7.


```
Press any key to continue
Username: admin
Password: *****
IGS-4215-8UP4X# copy running-config startup-config
Success
IGS-4215-8UP4X#
```

Figure 4-7: The Configuration Save Screen

NOTE If you are not familiar with 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 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, if 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.

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 Figure 4-3 to determine your initial login password. Username: admin Password: sw + the last 6 characters of the MAC ID in lowercase

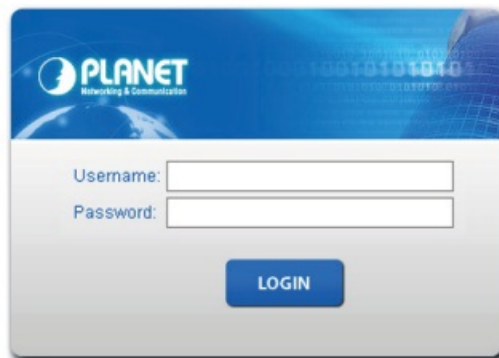


Figure 5-1: Web Login Screen

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

Change New Password	
New Password	
Password	<input type="text"/>
Retype Password	<input type="text"/>
Apply	

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

(Using IGS-4215-8UP4X as a representative)

The Switch Sub-Menu on the left of the Web page lets you access all the commands and statistics the Industrial Managed PoE+ Switch provides



Figure 5-4: Switch Menu



Figure 5-5: Switch Sub-menu

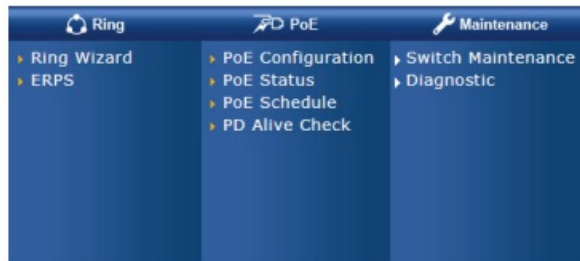


Figure 5-6: Switch Sub-menu

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 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 the running configuration to start up the configuration

Configuration Manager	
Save Configuration	
Source File	<input checked="" type="radio"/> Running configuration <input type="radio"/> Startup configuration <input type="radio"/> Backup configuration
Destination File	<input checked="" type="radio"/> Startup configuration <input type="radio"/> Backup configuration
<input type="button" value="Apply"/>	

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.

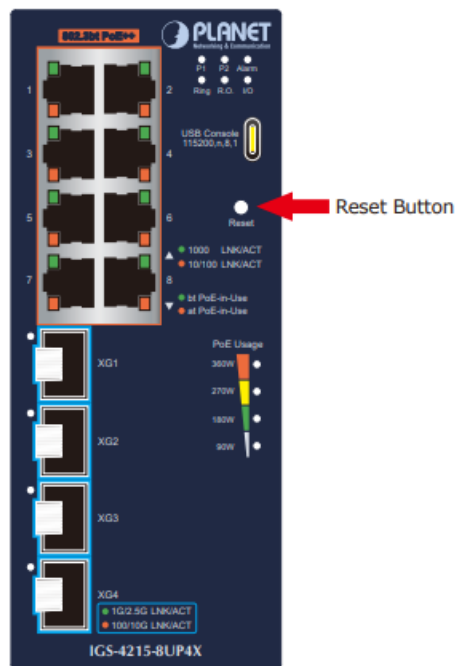


Figure 6-1: IGS-4215 Series Reset Button

CONTACT

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 switch support team


- PLANET online FAQs: <https://www.planet.com.tw/en/support/faq>
- Switch support team mail address: support@planet.com.tw
- IGS-4215-8T4X/IGS-4215-16T4X/IGS-4215-8UP4X 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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Documents / Resources

	<p>Planet Technology Industrial L2, L4 Managed Gigabit Switch with 10G Uplink [pdf] Installation Guide</p> <p>IGS-4215-8T4X, IGS-4215-8UP4X, IGS-4215-16T4X, Industrial L2 L4 Managed Gigabit Switch with 10G Uplink, Industrial L2, Industrial L4, Industrial L2 Managed Gigabit Switch with 10G Uplink, Industrial L4 Managed Gigabit Switch with 10G Uplink, Managed Gigabit Switch with 10G Uplink, Managed Gigabit Switch, Gigabit Switch Uplink, 10G Uplink, Uplink</p>
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References

- [User Manual](#)

Manuals, [Privacy Policy](#)

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