

Industrial Wall-mount Managed Gigabit Ethernet Switch

WGS-804HPT

WGS-4215-8T/WGS-4215-8T2S/WGS-4215-8P2S

WGS-4215-16P2S

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET Industrial Wall-mount Managed Gigabit Switch, WGS-804HPT and WGS-4215 series. The table below shows the models with the number of ports:

| Model Name | 10/100/1000T Copper Ports | 802.3at PoE Ports | 100/1000 SFP Fiber Optical Interface |
|----------------|---------------------------|-------------------|--------------------------------------|
| WGS-4215-8T | 8 | – | – |
| WGS-4215-8T2S | 8 | – | 2 |
| WGS-804HPT | 8 | 4 | – |
| WGS-4215-8P2S | 8 | 8 | 2 |
| WGS-4215-16P2S | 16 | 16 | 2 |

In the following section, unless specified, the term **“Wall-mount Managed Switch”** mentioned in this quick installation guide refers to the above models.

Open the box of the Wall-mount Managed Switch and carefully unpack it. The box should contain the following items:

| The Wall-mount Managed Switch x 1 | Quick Installation Guide x 1 pc | 3-pin Terminal Block Connector x 1 pc |
|--|--|---|
|  (Vary on the model) |  |  |
| DIN-rail Kit x 1 set | Magnet Kit x 1 set | Wall-mounted Kit x 1 set |
|  |  |  |
| RJ45 Dust Cap x 8 pcs | SFP Dust Cap x 2 pcs | |
|  (x16 for WGS-4215-16P2S only) |  (WGS-4215-8T2S/WGS-4215-8P2S/ WGS-4215-16P2S only) | |

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

2. Requirements

- 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)
- 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 Wall-mount Managed Switch. If the Web interface of the Wall-mount Managed Switch is not accessible, please turn off the anti-virus software or firewall and then try it again.

3. Wiring the Power Inputs

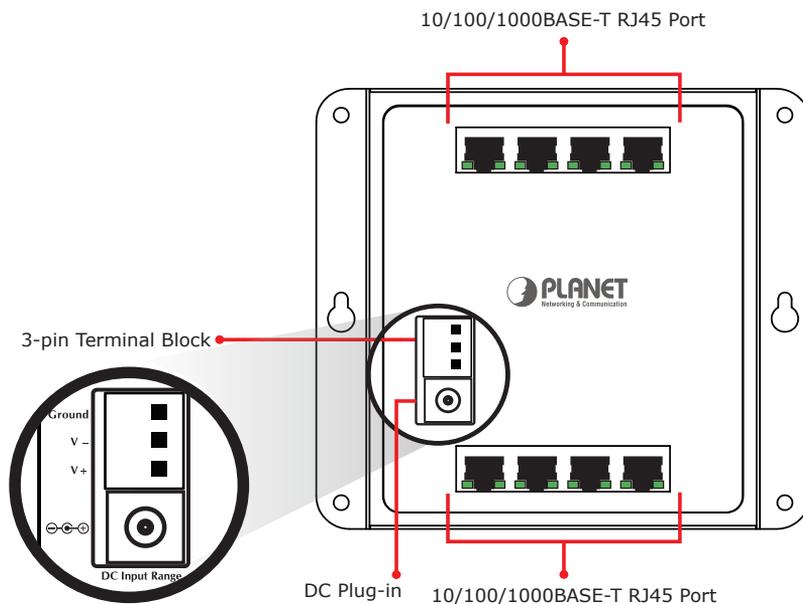
The Wall-mount Managed Switch features a strong dual power input system (terminal block and DC jack) incorporated into customer's automation network to enhance system reliability and uptime.

| Model | Power Input Range | 3-pin Terminal Block | DC Jack |
|----------------|-------------------|----------------------|-------------------|
| WGS-4215-8T | | 12~48V DC, 24V AC | 12~48V DC, 24V AC |
| WGS-4215-8T2S | | 12~48V DC, 24V AC | 12~48V DC |
| WGS-804HPT | | 48~56V DC | 48~56V DC |
| WGS-4215-8P2S | | 48~56V DC | 48~56V DC |
| WGS-4215-16P2S | | 48~56V DC | 48~56V DC |



Note

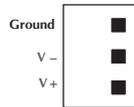
Max power requirement also rely on the real site application.



3.1 Terminal Block Connector Pinout

To install the 3-pin Terminal Block Connector on the Wall-mount Managed Switch, simply follow the following steps:

Step 1: Insert positive DC power wire into **V+**, negative DC power wire into **V-**, and grounding wire into **Ground**.



Step 2: Tighten the wire-clamp screws for preventing the wires from loosening and plug into the Wall-mount Managed switch.



1. The wire gauge should be in the range from 12 to 24 AWG.
2. The device must be grounded.

3.2 DC Power Jack

The WGS-804HPT/WGS-4215-8P2S/WGS-4215-16P2S requires DC 48V~56V power input and WGS-4215-8T/WGS-4215-8T2S requires DC 12~48V power input. Should you have the issue of power connection, please contact your local sales representative.



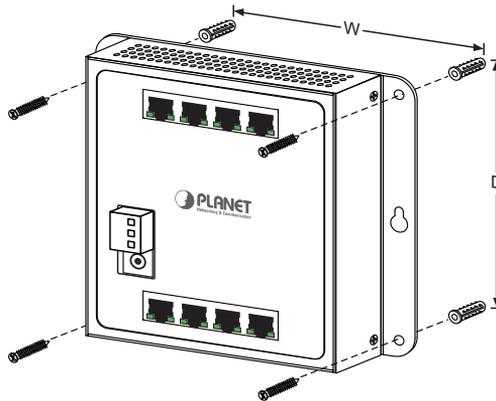
DC receptacle is 2.1mm wide that conforms to the WGS-4215 series 2.1mm DC jack's central post. Do not install any improper power adaptor

4. Hardware Installation

4.1 Wall Mount Installation

To install the Wall-mount Managed Switch on the wall, simply follow the following steps:

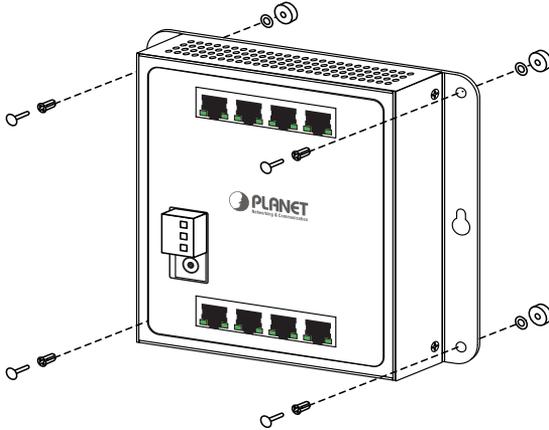
- Step 1:** It is required 4 holes with 8mm diameter on the wall; the distance between the 2 holes is 133mm (WGS-804HPT/WGS-4215-8T), 163mm (WGS-4215-8T2S/WGS-4215-8P2S), 230 mm (WGS-4215-16P2S) and the line through them must be horizontal.
- Step 2:** Install a conductor pipe inside the board hole and flush the edge of the conductor pipe with the wall surface.
- Step 3:** Screw the bolts into the conductor pipe. The Wall-mount Managed Switch is between bolts and conductor pipe, as shown below.



| Vary on model | | | |
|---------------|--------|------|-------|
| Distance (mm) | 8-port | 8+2S | 16+2S |
| W | 133 | 163 | 230 |
| D | 118 | 118 | 124 |

4.2 Magnet Installation

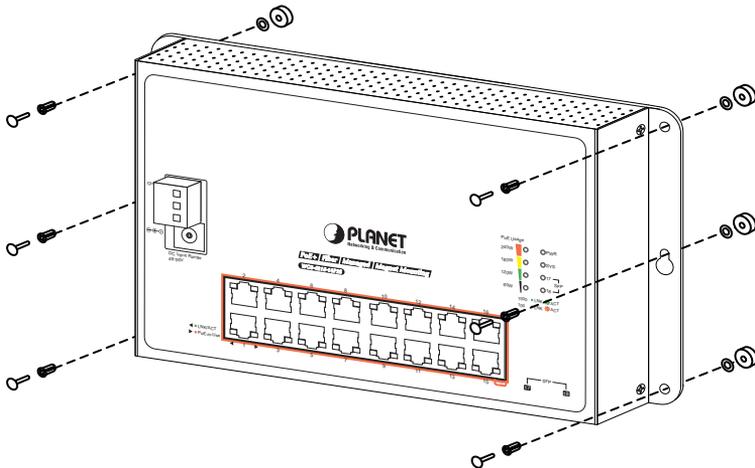
To install the Wall-mount Managed Switch on a magnetic surface, simply follow the following diagram:

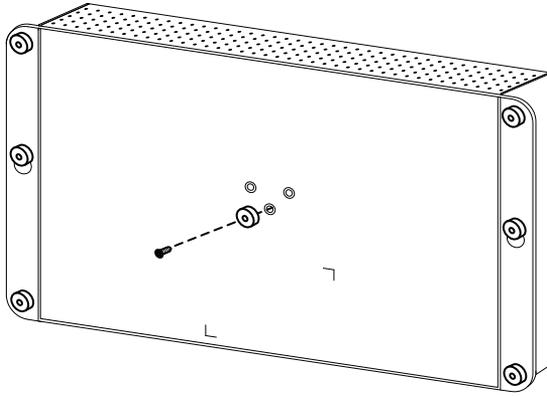


4.2.1 Magnet Installation of WGS-4215-16P2S

Step 1: There are six holes in front, using six sets of magnets to install. Please refer to the following.

Step 2: Turn the switch to the back, then screw the magnet to the middle hole.





Warning

As the magnetic mounting does not fix completely, when deploying the switch please be aware that the equipment will not fall or break due to vibration or dragging.



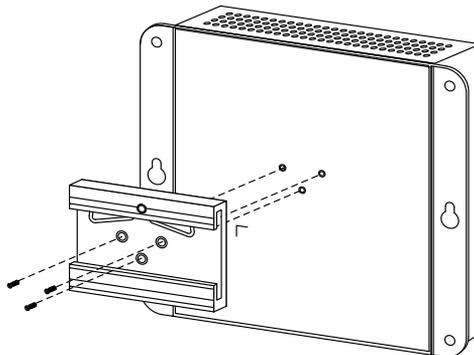
Note

Please use the screw from the Magnet kit to avoid breaking the device.

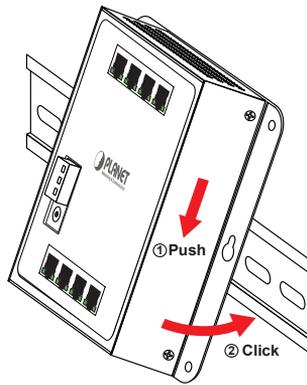
4.3 DIN-rail Mount Installation

The DIN-rail kit is included in the package. When the wall-mount application for the Wall-mount Managed Switch needs to be replaced with DIN-rail application, please refer to the following figures to screw the DIN-rail on the Wall-mount Managed Switch. To hang up the Wall-mount Managed Switch, follow the steps below:

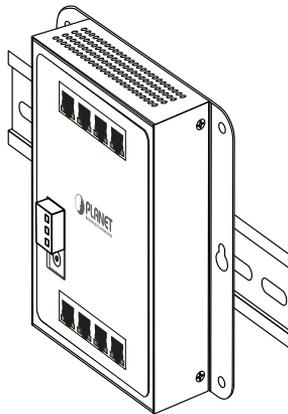
Step 1: Screw the DIN-rail on the Wall-mount Managed Switch.



Step 2: Lightly insert the DIN-rail into the track.



Step 3: Check whether the DIN-rail is tightly on the track.



5. Web Login

5.1 Starting Web Management

The following shows how to start up the **Web Management** of the Wall-mount Managed Switch. Note the Wall-mount 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 Wall-mount 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.

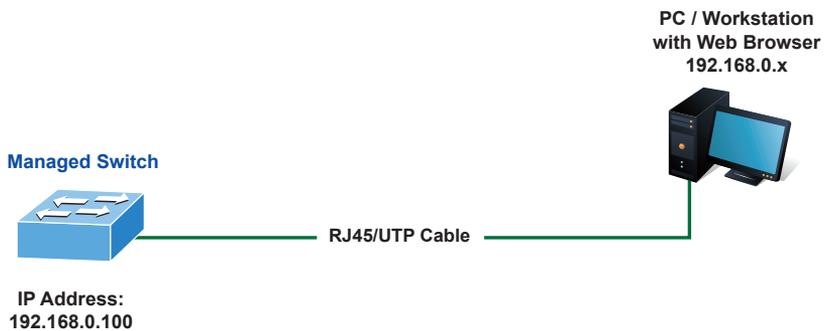


Figure 5-1: IP Management Diagram

Logging in to the Wall-mount Managed Switch

1. Use Internet Explorer 8.0 or above Web browser and enter IP address **http://192.168.0.100** to access the Web interface.
2. When the following dialog box appears, please enter “**admin**” in both the default user name and password fields. The login screen in Figure 5-2 appears.

Default IP Address: **192.168.0.100**
Default Username: **admin**
Default Password: **admin**



Figure 5-2: Web Login Screen

3. After entering the password, the main screen appears as Figure 5-3 shows.



The following web screen is based on the WGS-4215-8T2S. The display of the WGS-4215-8T2S is the same as those of the WGS-804HPT and WGS-4215-8T/WGS-4215-8P2S/WGS-4215-16P2S.



Figure 5-3: Web Main Screen of Wall-mount Managed Switch

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



Figure 5-4: Switch 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 the Web

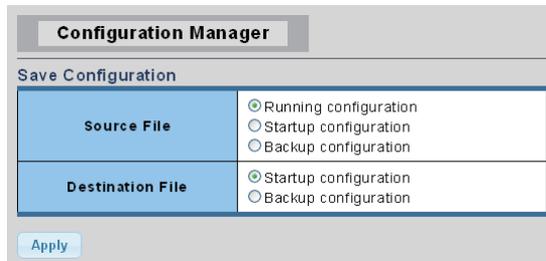
In the Wall-mount Managed Switch, the running configuration file stores in the RAM. In the current version, the running configuration sequence of running-config can be saved from the RAM to FLASH by “**Save Configurations to FLASH**” function, so that the running configuration sequence becomes the startup 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 “**Save > Save Configurations to FLASH**” to login “Configuration Manager” Page.



2. Press the “**Apply**” button to save running configuration to start up configuration.

A screenshot of the 'Configuration Manager' web interface. The title 'Configuration Manager' is in a grey box at the top. Below it, the section 'Save Configuration' is displayed. It contains a table with two rows: 'Source File' and 'Destination File'. Each row has two columns: a label and a list of radio button options. The 'Source File' row has options for 'Running configuration', 'Startup configuration', and 'Backup configuration'. The 'Destination File' row has options for 'Startup configuration' and 'Backup configuration'. The 'Running configuration' and 'Startup configuration' options are selected with radio buttons. Below the table is an 'Apply' button.

| 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"/> | |

6. Telnet Login

The Wall-mount Managed Switch also supports Telnet for remote management. The switch asks for user name and password for remote login when using Telnet; please use "admin" for both username and password.

Default IP address: **192.168.0.100**
Username: **admin**
Password: **admin**

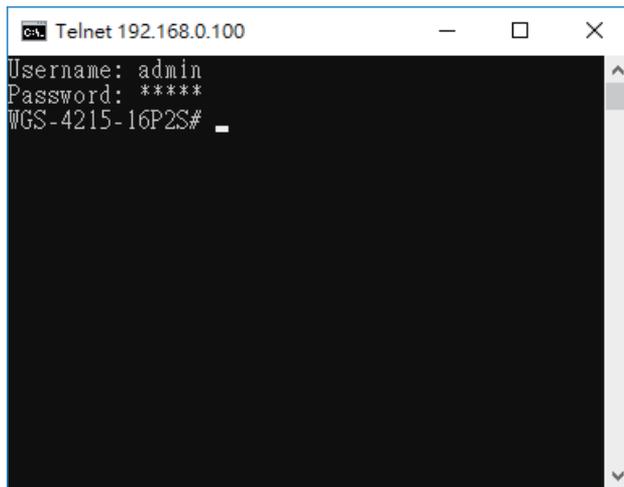


Figure 6-1: Wall-mount Managed Switch Telnet Login Screen

The user can now enter commands to manage the Wall-mount 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.

6.1 Configuring IP Address

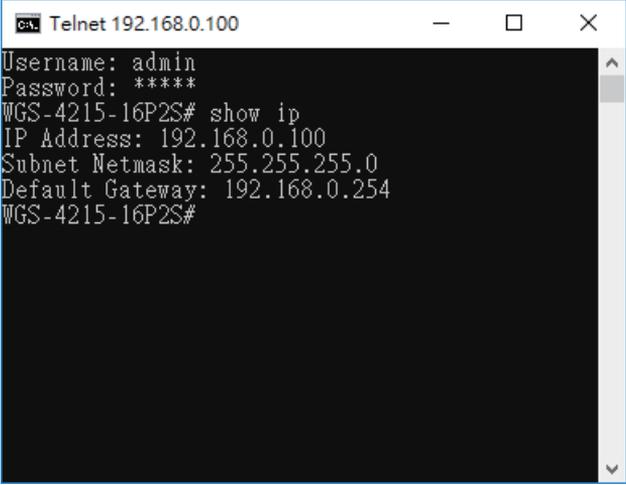
The Wall-mount Managed Switch is shipped with default IP address shown below:

```
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**”.
2. The screen displays the current IP address shown in Figure 6-2.

A screenshot of a Telnet window titled "Telnet 192.168.0.100". The window shows a command-line interface with the following text: "Username: admin", "Password: *****", "WGS-4215-16P2S# show ip", "IP Address: 192.168.0.100", "Subnet Netmask: 255.255.255.0", "Default Gateway: 192.168.0.254", and "WGS-4215-16P2S#". The window has standard Windows-style window controls (minimize, maximize, close) in the top right corner.

```
ca Telnet 192.168.0.100  
Username: admin  
Password: *****  
WGS-4215-16P2S# show ip  
IP Address: 192.168.0.100  
Subnet Netmask: 255.255.255.0  
Default Gateway: 192.168.0.254  
WGS-4215-16P2S#
```

Figure 6-2: IP Information Screen

■ Configuration of the IP Address

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

```
WGS-4215-8P2S# configure terminal  
WGS-4215-8P2S (config)# ip address 192.168.1.100 mask 255.255.255.0  
WGS-4215-8P2S (config)# ip default gateway 192.168.1.254
```

The previous command would apply the following settings for the Wall-mount Managed Switch.

```
IP Address: 192.168.1.100  
Subnet Mask: 255.255.255.0  
Gateway: 192.168.1.254
```

```
Username: admin  
Password: ****  
WGS-4215-16P2S# configure  
WGS-4215-16P2S(config)# ip address 192.168.1.100 mask 255.255.255.0  
WGS-4215-16P2S(config)# ip default-gateway 192.168.1.254  
WGS-4215-16P2S(config)# _
```

Figure 6-3: Configuring IP Address Screen

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

6.2 Storing the Current Switch Configuration

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

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

```
Username: admin  
Password: ****  
WGS-4215-16P2S# copy running-config startup-config  
Success  
WGS-4215-16P2S# _
```

Figure 6-4: Saving Current Configuration Command Screen

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



Note

If you are not familiar with the Telnet command or the related parameter, enter “**help**” anytime in console to get the help description.

7. Recovering Back to 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 **reset button** on the front panel for about **5 seconds**. After the device is rebooted, you can log in the Web interface management within the same subnet of 192.168.0.xx.

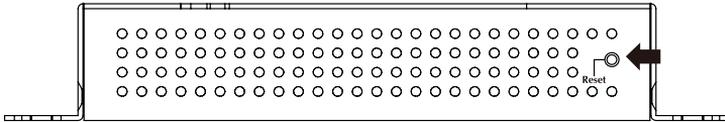


Figure 7-1: WGS-804HPT/WGS-4215-8T Reset Button

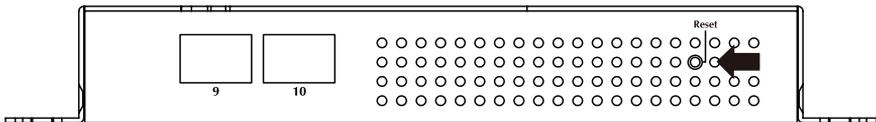


Figure 7-2: WGS-4215-8T2S/WGS-4215-8P2S Reset Button

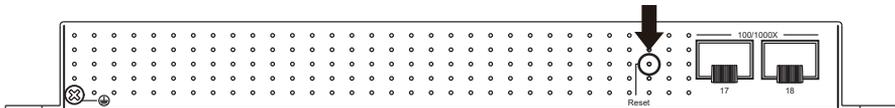


Figure 7-3: WGS-4215-16P2S Reset Button

8. 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 email address:

support@planet.com.tw

WGS-804HPT/WGS-4215-8T/WGS-4215-8T2S/WGS-4215-8P2S/WGS-4215-16P2S

User's Manual:

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



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