

**Industrial Wall-mount
Gigabit Ethernet Router**

WGR-500/WGR-500-4P/WGR-500-4PV

Quick Installation Guide

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1. Package Contents

Thank you for purchasing PLANET Industrial Wall-mount Gigabit Ethernet Router, WGR-500 series. The table below shows the models with the number of ports:

Model Name	10/100/1000T Copper Ports	802.3at PoE + Ports	2.4" LCD	USB Port
WGR-500	5	-	-	-
WGR-500-4P	5	4	-	■
WGR-500-4PV	5	4	■	■

In the following section, unless specified, the term **“Industrial Router”** mentioned in this quick installation guide refers to the WGR-500 series.

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

The Industrial Router x 1 	Quick Installation Guide x 1 	Wall-mounted Kit x 1 
DIN-rail Kit x 1 	Magnet Kit x 1 	RJ45 Dust Cap x 5 
3-pin or 2-pin Terminal Block Connector x 1 		

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.



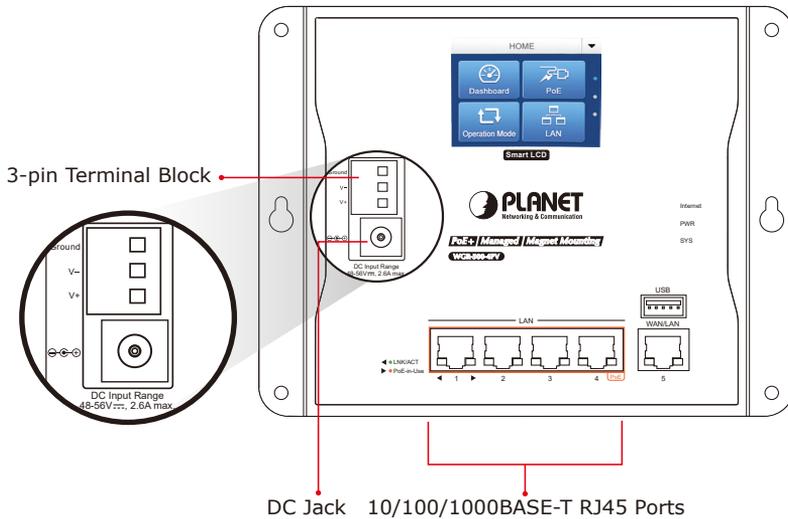
Note

It is recommended to use Internet Explorer 8.0 or above to access the Industrial Router. If the Web interface of the Industrial Router is not accessible, please turn off the anti-virus software or firewall and then try it again.

3. Wiring the Power Inputs

The Industrial Router features a strong dual power input system (Terminal block and DC jack) incorporated into customer's automation network to enhance system reliability and uptime.

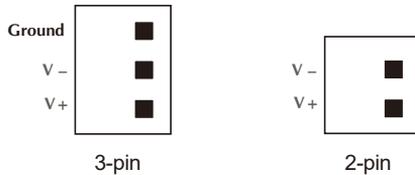
Model \ Power Input Range	Terminal Block	DC Jack
WGR-500	2-pin 9~48V DC	9~48V DC
WGR-500-4P	3-pin 48~56V DC	48~56V DC
WGR-500-4PV	3-pin 48~56V DC	48~56V DC



3.1 Terminal Block Connector Pinout

To install the 3-pin (WRG-500-4PV/WRG-500-4P) and 2-pin (WRG-500) Terminal Block Connector on the Industrial Router, 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 them into the Wall-mount Gigabit Ethernet Router



Note

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 WGR-500-4P/WGR-500-4P requires DC 48V~56V power input and the WGR-500 requires DC 9~48V power input. Should you have the issue of power connection, please contact your local sales representative.



Its DC receptacle is 2.1mm wide that conforms to the WGR-500 series with DC jack's 2.1mm central post. Do not install any improper unit.

4. Hardware Installation

4.1 Wall-mount Installation

To install the Industrial Router on the wall, simply follow the following steps:

Step 1: There are 4 holes with 8mm diameter on the wall mount bracket of the Industrial Router; the distance between the 2 holes is **165mm** of the WGR-500-4PV and WGR-500-4P, **133mm** of WGR-500, and the line through them must be horizontal.

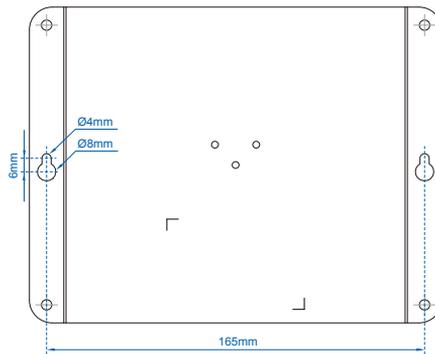


Figure 4-1: Getting mounting holes aligned (WGR-500-4PV/4P)

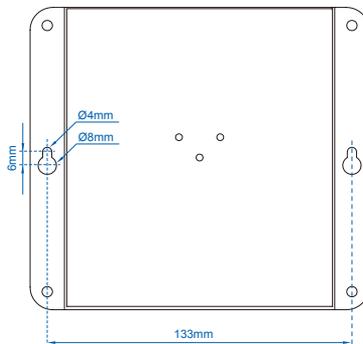


Figure 4-2: Getting mounting holes aligned

Step 2: Install a conductor pipe inside the board hole and flush the edge of the conductor pipe with the wall surface.

Step 3-1: Screw the bolts into the conductor pipe. The Industrial Router is between bolts and conductor pipe, as shown below.

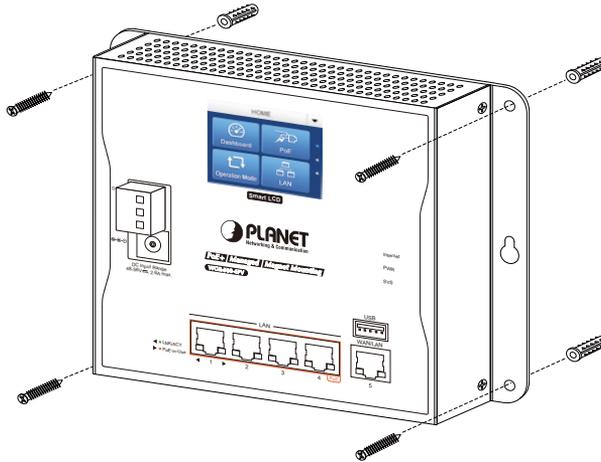


Figure 4-3: Router is screwed to the wall

Step 3-2: Insert screws into the wall anchors, leaving 2 mm of each screw exposed. Place the wall-mount slots over the screws and slide the device down until the screws fit snugly into the wall-mount slots. The industry router can be hung on the wall.

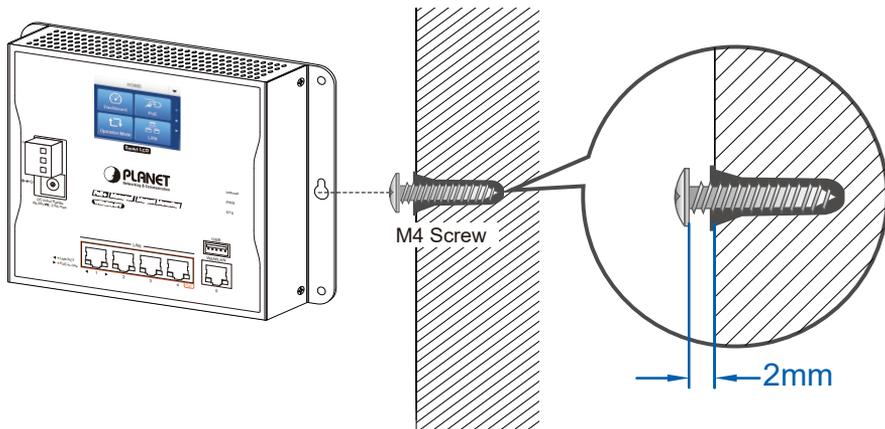


Figure 4-4: Router is hung on the wall

4.2 DIN-rail Installation

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

Step 1: Screw the DIN-rail bracket on the Industrial Router.

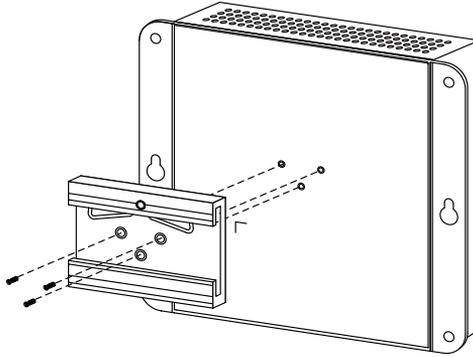


Figure 4-5: DIN-rail bracket is attached to router

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

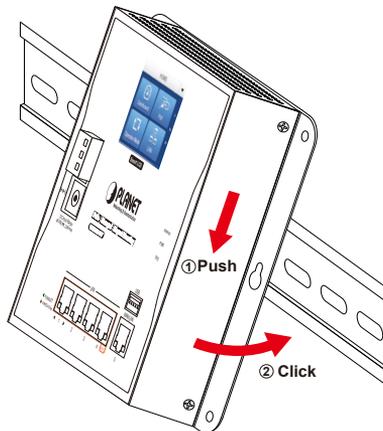


Figure 4-6: Router is placed on the track

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

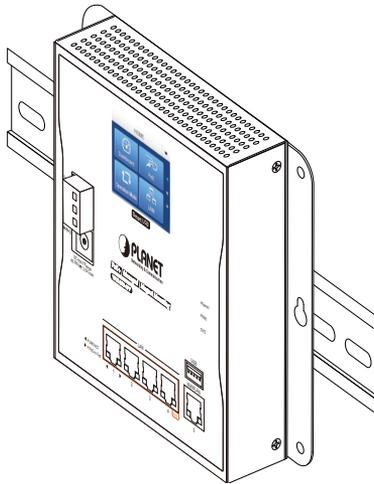


Figure 4-7: Router is tightly fixed on the track

4.3 Magnet Installation

To install the Industrial Router on a magnetic surface, simply follow the following diagram:

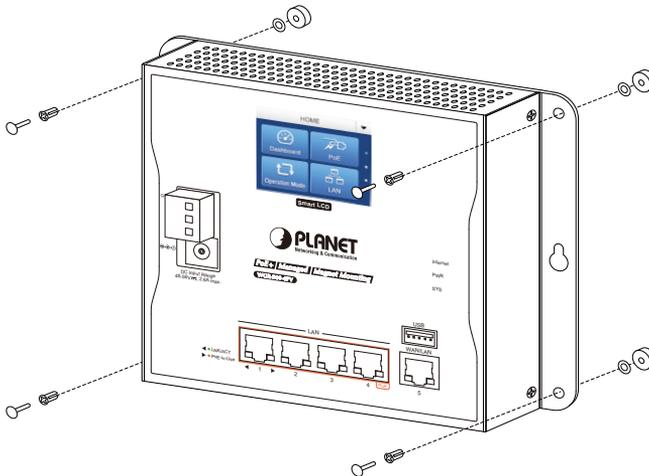


Figure 4-8: Router is magnetically installed

5. Web-based Router Setting

■ Starting Web Management

The following shows how to start up the **Web Management** of the Industrial Router. Note the Industrial Router 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 Router is **192.168.1.1**, then the manager PC should be set to **192.168.1.x** (where x is a number between 1 and 254, except 100) and the default subnet mask is 255.255.255.0.

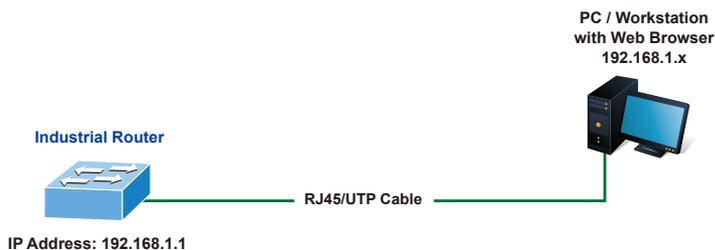


Figure 5-1: IP Management Diagram

■ Logging in to the Industrial Router

1. Use Internet Explorer 8.0 or above Web browser and enter IP address **http://192.168.1.1** 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: **192.168.1.1**
Default Username: **admin**
Default Password: **admin**

The screenshot shows a "Sign in" dialog box. At the top, it displays "http://192.168.1.1" and a warning: "Your connection to this site is not private". Below this are two input fields: "Username" and "Password". At the bottom right, there are two buttons: "Sign in" (highlighted in blue) and "Cancel".

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 WGR-500-4PV. The display of the WGR-500-4PV is the same as those of the WGR-500-4P and WGR-500.

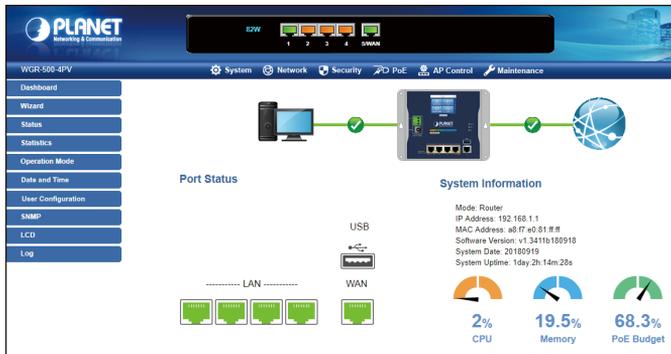


Figure 5-3: Web Main Screen of Industrial Router

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

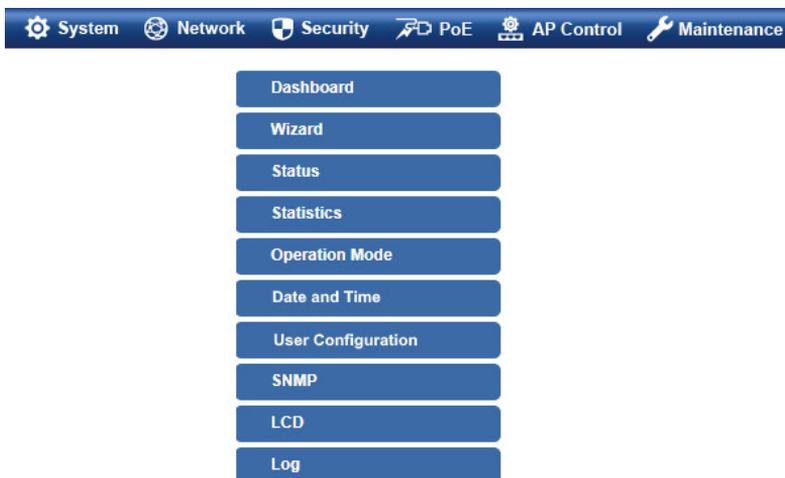


Figure 5-4: Industrial Router Menu

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



For the WGR-500 and WGR-500-4P, if you would like to set in a different mode between **Router** and **Switch**, it can be configured by DIP switch found on the bottom case as shown in the diagram.

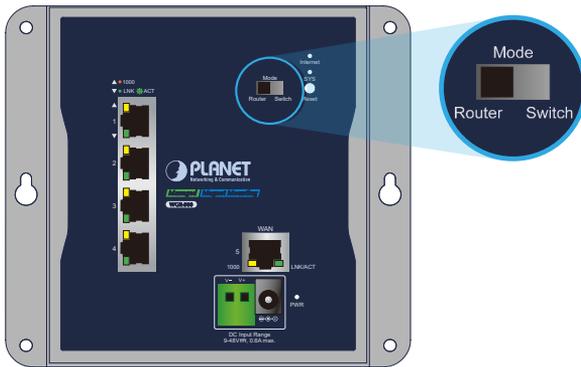


Figure 5-5: WGR-500 DIP switch button

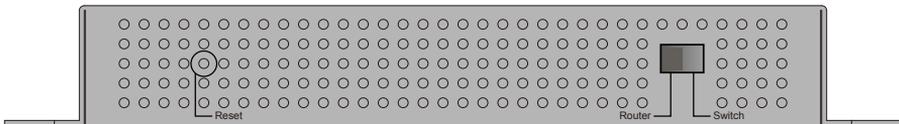


Figure 5-6: WGR-500-4P DIP switch button

6. LCD Touchscreen Router Setting

The WGR-500-4PV is equipped with a 2.4-inch color LCD touch screen with management functions. Tap the LCD touch screen to wake the LCD touch screen.



Figure 6-1: To wake the LCD touch screen

■ Starting Touchscreen Setup Wizard

The wizard will guide your through the setup of your Industrial Router. The touchscreen wizard helps you set up the following configurations in minutes.

- ◆ Setup **Operation Mode - Router Mode**
- ◆ Setup **LAN** Interface
- ◆ Setup **WAN** Interface

Begin by clicking on **"Start"**



◀ Operation Mode

Router Switch

Cancel Apply

◀ LAN Setup

Current IP: 192.168.1.1

IP Address:

192 . 168 . 1 . 1

Mask Length: 24

<< Back Next >>

◀ WAN Setup

WAN Type:

Static IP L2TP

PPPoE PPTP

DHCP Client

<< Back Next >>

◀ Complete

Congratulations your device has been configured. Click "Finish" to apply the settings.

Finish

■

Congratulations, the Industrial Router is now successfully configured. You may now attach the xDSL/fiber/cable modem and Ethernet equipment to the wired ports on the front panel of the Industrial Router.



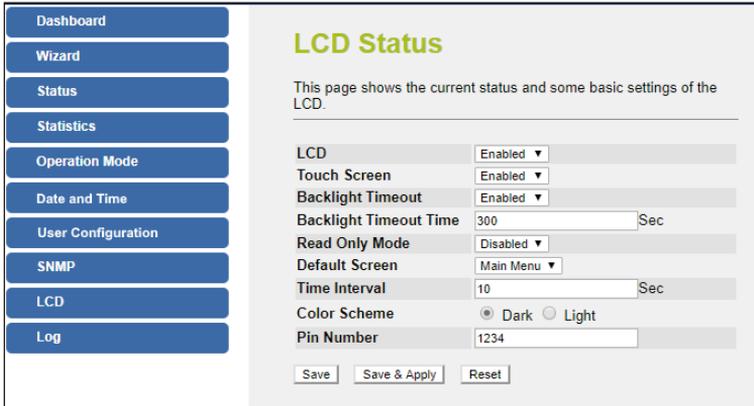
The Settings menu allow user to access different router and PoE features. Tap Up/ Down to access all settings.

■ Default LCD Configuration

The factory default LCD configurations are shown as follows.

Default LCD: **Enable**
Default Touch Screen: **Enable**
Default Backlight Timeout: **Enable**
Default Backlight Timeout Time: **300**
Default Read Only Mode: **Disable**
Default Screen: **Main Menu**
Default Time Interval: **10**
Default Color Scheme: **Dark**
Default Pin Number: **1234**

You can use the Web management interface and click LCD, and then in the LCD Management, change LCD configuration.



The screenshot shows a web management interface with a sidebar on the left containing menu items: Dashboard, Wizard, Status, Statistics, Operation Mode, Date and Time, User Configuration, SNMP, LCD, and Log. The main content area is titled "LCD Status" and includes a description: "This page shows the current status and some basic settings of the LCD." Below this is a configuration table with the following settings:

LCD	Enabled
Touch Screen	Enabled
Backlight Timeout	Enabled
Backlight Timeout Time	300 Sec
Read Only Mode	Disabled
Default Screen	Main Menu
Time Interval	10 Sec
Color Scheme	<input checked="" type="radio"/> Dark <input type="radio"/> Light
Pin Number	1234

At the bottom of the configuration area are three buttons: Save, Save & Apply, and Reset.

Please refer to the user's manual for more.



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 “192.168.1.1” 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 to the Web interface management within the same subnet of 192.168.1.xx.

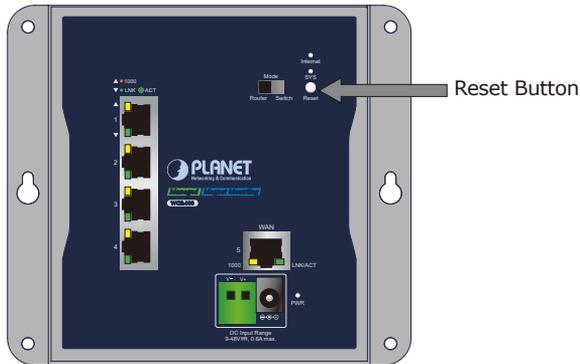


Figure 7-1: Industrial Router Reset Button for WGR-500

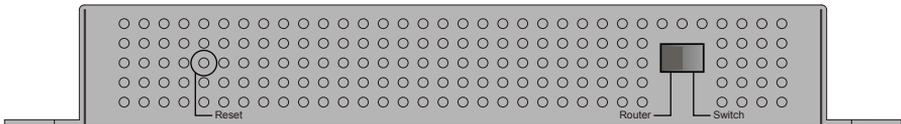


Figure 7-2: Industrial Router Reset Button for WGR-500-4P/4PV

8. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQs 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 support team.

PLANET online FAQs:

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

Switch support team mail address:

support@planet.com.tw

WGR-500 Series User's Manual:

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



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