

1 Mode Introduction

1.1 Bridge Mode

In the Bridge mode, GW-WR302N works as a wireless router to achieve wireless connection for the wired LAN.

1.2 Router Mode

In the Router mode, GW-WR302N works as a domestic gateway.

1.3 Wireless Universal Repeater/WDS Mode

In the Wireless Universal Repeater/WDS mode, GW-WR302N expands wireless coverage of the existing AP. Computers can connect to GW-WR302N in either a wired or wireless way.

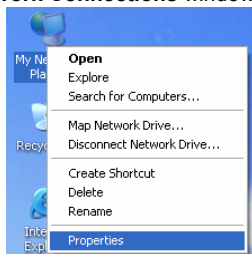
1.4 Client Mode

In the Client mode, GW-WR302N provides Internet access for a set-top box or a computer with a network adapter.

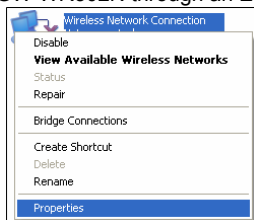
2 Configuring Your Computer

The following takes Window XP as an example. Do as follows to manually set the network adapter:

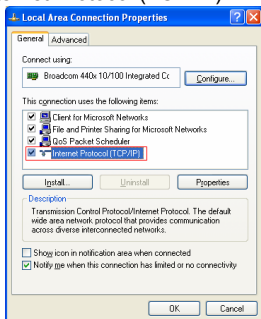
- Step 1** Right-click the icon of **My Network Places** and choose **Properties** to display the **Network Connections** window.



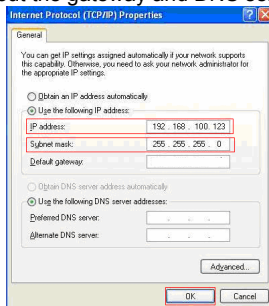
- Step 2** Right-click the icon of a network interface card or wireless network adapter and choose **Properties**. (Note: In the Client mode, computers can connect to GW-WR302N through an Ethernet cable only.)



- Step 3** Double-click Internet Protocol (TCP/IP).



- Step 4** (1) When GW-WR302N is set to the Router mode, select **Obtain an IP address automatically**.
(2) When GW-WR302N is set to other modes, set the IP address of your computer to **192.168.100.X** (X is an integer in the range of 2 to 253), and the MAC address to 255.255.255.0. Set the gateway and the IP address of the DNS server. You can leave them blank if you do not know information about the gateway and DNS server. Click **OK**.



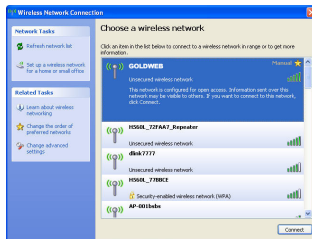
**Note:**

After you finish configuring GW-WR302N, the domestic gateway can set the Internet protocol for the PC's network adapter. Set the IP address and DNS server to **Obtain an IP address automatically** as shown in figure above.

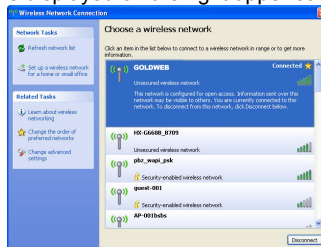
3 Configuring Wireless Connection

The following takes Windows XP as an example. Do as follows to connect the wireless network adapter of your PC to GW-WR302N:

- Step 1** Click the  icon displayed at the right bottom corner of the desktop (Note: Ensure that your PC is installed with a wireless network adapter).
- Step 2** In the **Wireless Network Connection** page, double-click the desired wireless network.



- Step 3** Your computer successfully connects to the wireless network when **Connected** is displayed on the right upper corner.

**Note:**

The default SSID of GW-WR302N is **GOLDWEB**.

4 Logging In to the Web Page

When the wireless router is connected to your computer, you can access and configure the router using your browser.

- Run the Internet Explorer (IE), enter ***http://192.168.100.254/*** (the default IP address of the wireless router) in the address bar, and press **Enter**.
- In the window that is displayed as shown in the following figure, set the **Language** to **English**, enter the user name and password, and click **Login**. The default user name and password are **admin** and **admin** respectively



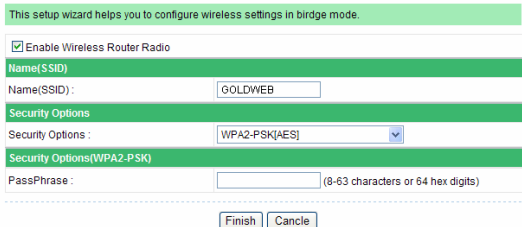
After logging in to the Web page, you can view, configure and modify the router settings. To make modified settings take effect, you need to reboot the wireless router sometimes.

5 Configuring GW-WR302N

5.1 Bridge Mode Configuration

- Step 1** Set the three-way switch on the side panel to **AP** after GW-WR302N is powered on. Log in to the configuration page after the system is started.
- Step 2** Click **Setup Wizard** in the navigation bar on the left pane of the page. Set the SSID and encryption password and note them down. Click **Finish** to complete the settings.

Setup Wizard



5.2 Router Mode Configuration

- Step 1** Set the three-way switch on the side panel to AP after GW-WR302N is powered on. Log in to the configuration page after the system is started.
- Step 2** Click **Mode Settings** and select **Router Mode**. (The default mode is **Bridge Mode**.)
- Step 3** Connect your PC to GW-WR302N using a wireless network adapter after GW-WR302N is restarted successfully. Log in to the configuration page. Click **Setup Wizard** in the navigation bar on the left pane of the page. Select **Yes** and click **Next**. GW-WR302N will automatically detect the broadband type.
- Step 4** GW-WR302N can detect three types of broadband: DHCP, Static IP, and PPPoE. Perform configurations according to the broadband type you are using.

Parameter configuration for DHCP

Setup Wizard

Dynamic IP (DHCP) detected
Successfully detected the type of Internet connection you have.

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Dynamic IP Address

Account Name (If Required)

Finish Cancel

Enter the account name provided by your ISP. Leave it blank if your ISP does not provide the account name.

Parameter configuration for static IP

Setup Wizard

Static IP (fixed) detected
Successfully detected the type of Internet connection you have.
If you believe you have received this message in error, please power cycle your modem (unplug the modem and plug it back in). Then close this screen, and reopen a new Web browser (e.g., Internet Explorer)

Back Next

Static IP (Fixed) Addresses

Your Internet service provides the static IP (Fixed) settings.
Be sure to enter the correct IP address for each static IP settings. For example, be sure to enter the Gateway IP Address in the Gateway Address fields and the IP Address in the IP Address fields without mixing them up.

Internet IP Address		
IP Address		Required
IP Subnet Mask		
Gateway IP Address		
Domain Name Server (DNS) Address		
Primary DNS		Optional
Secondary DNS		

Next Cancel

Parameter configuration for PPPoE

Setup Wizard

PPPoE detected
Successfully detected the type of Internet connection you have.

PPPoE

Password Setting

Login : → Enter the account name and password for Internet connection.

Password :

Service Name (If required) :

Domain Name Server (DNS) Address

☒ Get Automatically From ISP

☐ Use These DNS Servers → Enter the DNS address provided by your ISP. If your ISP does not provide it, select Get Automatically From ISP.

Primary DNS :

Secondary DNS :

- Step 5** Click **Next**. Set the SSID and password and note them down. Click **Finish** to complete the settings.

Wireless Settings

☒ Enable Wireless Router Radio

Name(SSID)

Name(SSID) : → You can use the default SSID. However, we suggest modifying the SSID.

Security Options

Security Options : → Set the wireless encryption mode and password.

Security Options(WPA2-PSK)

PassPhrase : (8-63 characters or 64 hex digits)

5.3 Repeater Mode Configuration

- Step 1** Set the three-way switch on the side panel to **Repeater** after GW-WR302N is powered on. Log in to the configuration page after the system is started.
- Step 2** Click **Setup Wizard** in the navigation bar on the left pane of the page. Select **Wireless Universal Repeater Mode** and click **Next**.

Setup Wizard

Step1: There are two modes to expand your wireless network of the Repeater Mode. You can choose any one of WDS Mode or Wireless Universal Repeater Mode.

Please choose your repeater mode as follows:

☐ WDS Mode

☒ Wireless Universal Repeater Mode

- Step 3** Click **Site Survey** to search for the wireless network you want to connect. Select a desired network. Click **Next**.

Setup Wizard

Step2: Please configure the wireless client first. Click "Site Survey" button to survey wireless sites when client mode is enabled. If any Access Point or IBSS is found, the results will be displayed in the Site Survey List three seconds later, you could select anyone to connect it manually. Then click "Next".

Site Survey

Number of Sites Scanned : 3

#	SSID	BSSID	Channel	Signal	Encrypt	Select
1	NETG	00:1E:E3:DA:95:AF	1	100%	None	☒
2	treamey_Mobily001	00:1F:A4:90:F0:01	11	100%	WEP	☐
3	Cis08508	C0:C1:C0:38:79:C0	1	100%	WPA-PSK(AES/TKIP) WPA2-PSK(AES/TKIP)	☐

Back Next

- Step 4** Configure the repeater with the same security option as its uplink network. (The following figure takes the security option of **None** as an example.) Set the encryption password and note it down. Click **Finish** to complete the settings.

Setup Wizard

Step3: You should configure your wireless client manually so it has the same wireless security settings as the network which you selected. Then click "Next".

Wireless Client Security Options

Wireless Client Security Options :

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- Step 5** GW-WR302N provides the wireless roaming function if you select **Synchronize Wireless Universal Repeater's And Uplink AP's SSID And Security Options**. Click **Finish** to complete setup wizard.

Setup Wizard

Step4: This page provides an easy way to configure wireless universal repeater. If you enable the function, your wireless universal repeater would use same SSID and security options with uplink AP, or you should configure SSID of Extended Interface and Security Options manually. Finally click "Finish".

Wireless Universal Repeater Settings

☒ Synchronize Wireless Universal Repeater's And Uplink AP's SSID And Security Options

SSID of Extended Interface :

Security Options :

Note: If you changed settings of wireless universal repeater, the wireless clients connecting to your wireless universal repeater need connect to wireless universal repeater with new SSID and security options again.

Back Finish Cancel

5.4 WDS Mode Configuration

5.4.1 Repeater Configuration in the WDS Mode

- Step 1** Set the three-way switch on the side panel to **Repeater** after GW-WR302N is powered on. Log in to the configuration page after the system is started.
- Step 2** Click **Setup Wizard** in the navigation bar on the left pane of the page. Select **WDS Mode** and click **Next**. (Note: The WDS function cannot be used if the channel is set to **Auto**) Manually set all WDS devices to the same channel.

Setup Wizard

Step1: There are two modes to expand your wireless network of the Repeater Mode. You can choose any one of WDS Mode or Wireless Universal Repeater Mode.

Please choose your repeater mode as follows:

- ☒ WDS Mode
- ☐ Wireless Universal Repeater Mode

Next

- Step 3** Set the IP address of the LAN port of the repeater and enter the MAC address of the basic station. Click **Next**.

Setup Wizard

Step2: In WDS Mode, the device would work as a Repeater and could communicate only with another Base Station-mode wireless station. You must enter the wireless MAC address of the other Base Station-mode wireless station in the field named "Basic Station MAC Address" and enter the wireless MAC address of router in the other Base Station-mode wireless station webpage. The change of Repeater IP Address would result the change of LAN IP Address.

WDS Settings

Wireless MAC of this router: 00:1E:E3:42:15:35

Repeater IP Address:

Basic Station MAC Address:

Back Next

- Step 4** Set the SSID, channel, and security encryption for the repeater. The channel cannot be set to **Auto**. It is recommended to configure the repeater with the same security option as its base station. Set the encryption password and note it down. Click **Finish** to complete the settings.

Setup Wizard

Step3: WEP can (and should) be used to protect WDS communication. "Auto" channel can not be used.

Other Wireless Settings

Name(SSID):	GOLDWEB
Channel:	7
Security Options:	None

Back Finish Cancel

5.4.2 Central Base Station Configuration in the WDS Mode

Step 1 Set GW-WR302N to the Router mode.

Step 2 Choose **Wireless Settings > WDS Function**, select **Enable WDS Function**, and enter the MAC address of the Repeater (Note: One basic station can connect to a maximum of 4 repeaters).

WDS Function

☒ Enable WDS Function	
☐ Disable Wireless Clients Association	
Wireless MAC of this router: 00:1E:E3:42:15:35	
Wireless Basic Station	
Repeater MAC Address 1:	
Repeater MAC Address 2:	
Repeater MAC Address 3:	
Repeater MAC Address 4:	

Apply Cancel

5.5 Client Mode Configuration

Step 1 Click **Setup Wizard** in the navigation bar on the left pane of the page. Click **Site Survey** to search for the wireless network you want to connect.

Setup Wizard

Step1: This wizard help you to configure the wireless client. Click "Site Survey" button to survey wireless sites when client mode is enabled. If any Access Point or IBSS is found, the results will be displayed in the Site Survey List three seconds later, you could select anyone to connect it manually. Then click "Next".

Site Survey

Number of Sites Scanned : 3

Site Survey List						
#	SSID	BSSID	Channel	Signal	Encrypt	Select
1	NETG	00:1E:E3:DA:95:AF	1	100%	None	☒
2	treameyx_Mobily001	00:1F:A4:90:F0:01	11	100%	WEP	☐
3	Cis08508	C0:C1:C0:38:79:C0	1	100%	WPA-PSK(AES/TKIP)/WPA2-PSK(AES/TKIP)	☐

Next

Step 2 Enter encryption information of the selected wireless network. Click **Finish** to complete the settings.

Setup Wizard

Step2: You should configure your wireless client manually so it has the same wireless security settings as the network which you selected. Then click "Finish".

Security Options

Security Options : None

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Finish

Cancel

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed and operated to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. Installers must ensure that 20cm separation distance will be maintained between the device (excluding its handset) and users.

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