

MERCUSYS®

User Guide

300Mbps High Power Wireless N Router
MW330HP

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<http://www.mercusys.com>

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

OPERATING FREQUENCY (the maximum transmitted power)

2400 MHz -2483.5 MHz(20dBm)

EU declaration of conformity

MERCUSYS hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC and 2011/65/EU.

The original EU declaration of conformity may be found at <http://www.mercusys.com/en/ce>

RF Exposure Information

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The device complies with RF specifications when the device used at 20 cm from your body.




Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.






Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended

- Do not use the device where wireless devices are not allowed.
- Adapter shall be installed near the equipment and shall be easily accessible.
-  Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

Explanation of the symbols on the product label

Symbol	Explanation
	DC voltage
	Indoor use only
	<p>RECYCLING</p> <p>This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.</p> <p>User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.</p>

CONTENTS

Conventions.....	1
Chapter 1. Introduction.....	2
1.1 Product Overview.....	2
1.2 Product Appearance.....	2
1.2.1 The Front Panel.....	2
1.2.2 The Rear Panel.....	3
Chapter 2. Connecting the Router.....	4
2.1 Position Your Router.....	4
2.2 Connecting the Router.....	4
Chapter 3. Quick Installation Guide.....	5
Chapter 4. Basic Configuration.....	8
4.1 Device Management.....	8
4.2 Network.....	10
4.3 Wireless.....	12
Chapter 5. Advanced Configuration.....	13
5.1 Network.....	13
5.1.1 WAN Settings.....	13
5.1.2 LAN Settings.....	22
5.1.3 IPv6.....	22
5.1.4 IPTV.....	24
5.1.5 MAC Address Settings.....	25
5.1.6 DHCP Server.....	26
5.1.7 IP & MAC Binding.....	27
5.2 Wireless.....	28
5.2.1 Host Network.....	28
5.2.2 Guest Network.....	30
5.2.3 WDS Bridging.....	30
5.3 Network Control.....	32
5.3.1 Parental Controls.....	32
5.3.2 Access Control.....	34
5.4 Advanced Users.....	37
5.4.1 Virtual Server.....	38

5.4.2	DMZ Server	39
5.4.3	UPnP Settings	39
5.4.4	Advanced Routing	40
5.4.5	Dynamic DNS.....	41
5.5	System Tools.....	42
5.5.1	Web Management.....	43
5.5.2	Time Settings.....	44
5.5.3	Firmware Upgrade	45
5.5.4	Backup & Restore.....	46
5.5.5	Reboot	47
5.5.6	Change Login Password.....	47
5.5.7	Diagnostic Tools.....	48
5.5.8	System Log	50
Appendix A: FAQ (Frequently Asked Questions)		51
Appendix B: Configuring the PC		53

Conventions

The router or MW330HP, or device mentioned in this User Guide stands for MW330HP 300Mbps High Power Wireless N Router without any explanations.

Parameters provided in the pictures are just references for setting up the product, which may differ from the actual situation.

You can set the parameters according to your demand.

More Info

Specifications and the latest software can be found at the product page at the official website <http://www.mercusys.com>.

The Quick Installation Guide can be found where you find this guide or inside the package of the router.

Speed/Coverage Disclaimer

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.

Chapter 1. Introduction

1.1 Product Overview

The router integrates 4-port Switch, Firewall, NAT-Router and Wireless AP. Powered by 2x2 MIMO technology, the router delivers exceptional range and speed, which can fully meet the need of Small Office/Home Office (SOHO) networks and the users demanding higher networking performance.

1.2 Product Appearance

1.2.1 The Front Panel



The router's LEDs are located on the front panel (View from left to right).

LED	Status	Indication
WAN	Off	The WAN port is not connected.
	On	The WAN port is connected.
	Flashing	The WAN port is transmitting/receiving data.
WI-FI	Off	Wireless function is disabled.
	On	Wireless function is enabled.
LAN	Off	The LAN port is not connected.
	On	The LAN port is connected.
TURBO	Off	Turbo function is disabled.
	On	Turbo function is enabled.

MW330HP 300Mbps High Power Wireless N Router**1.2.2 The Rear Panel**

The following items are located on the rear panel (View from left to right).

Items	Description
POWER Socket	The power socket is where you will connect the power adapter. Please use the power adapter provided with this router.
TURBO Button	Press this button to enable Turbo function to enhance your Wi-Fi signal and expand Wi-Fi coverage.
WPS/RESET Button	Press this button for 1 second to use WPS function. Press and hold this button for more than 5 seconds to reset the router.
WAN Port	This port is where you will connect the router to the DSL/cable modem, or Ethernet.
LAN Ports	These ports connect the router to the local devices.
Wireless Antennas	To receive and transmit the wireless data.

Chapter 2. Connecting the Router

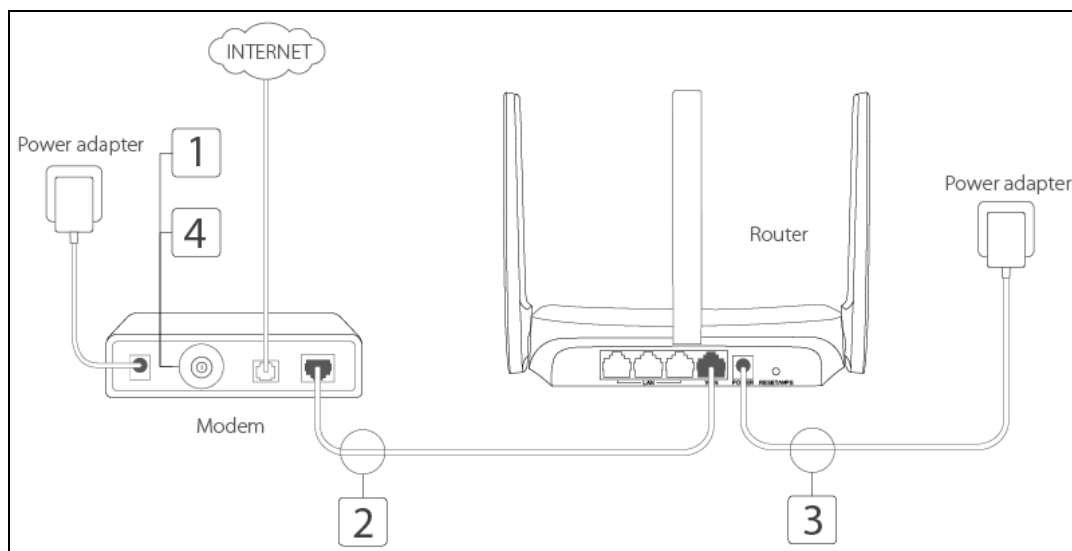
2.1 Position Your Router

- The product should not be located in a place where it will be exposed to moisture or excessive heat.
- Place the router in a location where it can be connected to multiple devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not create a tripping hazard.
- The router can be placed on a shelf or desktop.
- Keep the router away from devices with strong electromagnetic reference, such as Bluetooth devices, cordless phones and microwaves.

2.2 Connecting the Router

Follow the steps below to connect your router.

If your internet connection is through an Ethernet cable from the wall instead of through a DSL/Cable/Satellite modem, connect the Ethernet cable directly to the router's Internet port, then follow steps 4 and 5 to complete the hardware connection.



1. Turn off the modem and remove the backup battery if it has one.
2. Connect the modem to the Internet port on your router with an Ethernet cable.
3. Turn on the modem, and then wait about 2 minutes for it to restart.
4. Turn on the router.

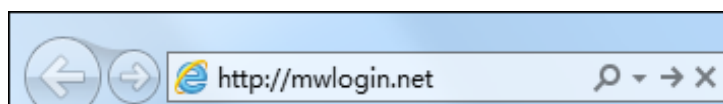
Chapter 3. Quick Installation Guide


This chapter will show you how to configure the basic functions of your router using Quick Setup Wizard within minutes.

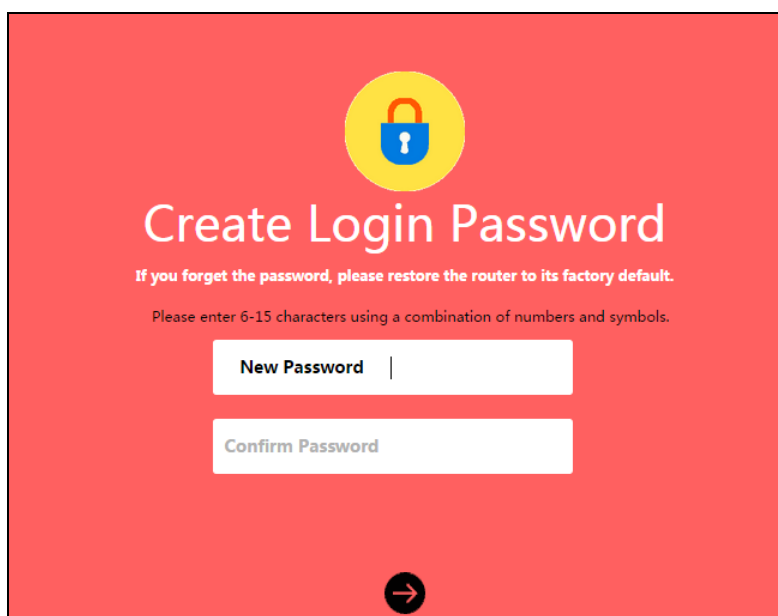
NOTE:

Before configuring the router, you need to set up the TCP/IP Protocol to **Obtain an IP address automatically** on your PC. For detailed instructions, please refer to [Appendix B: Configuring the PC](#).


1. To access the web management page, open a web browser and enter the default domain name <http://mwlogin.net> in the address field.

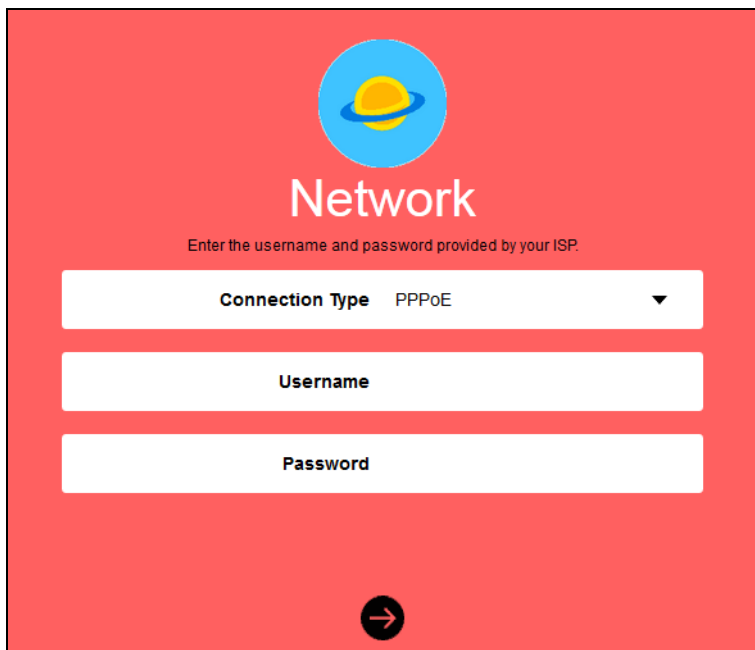


2. A login window will appear. Create a login password when prompted. Then click . For subsequent login, use the password you have set.


A screenshot of a web page with a red background. At the top center is a yellow circle containing a blue padlock icon. Below this is the title 'Create Login Password' in white. Underneath the title is the text 'If you forget the password, please restore the router to its factory default.' followed by 'Please enter 6-15 characters using a combination of numbers and symbols.' There are two white input fields: the first is labeled 'New Password' and the second is labeled 'Confirm Password'. At the bottom center is a black circle with a white right-pointing arrow.

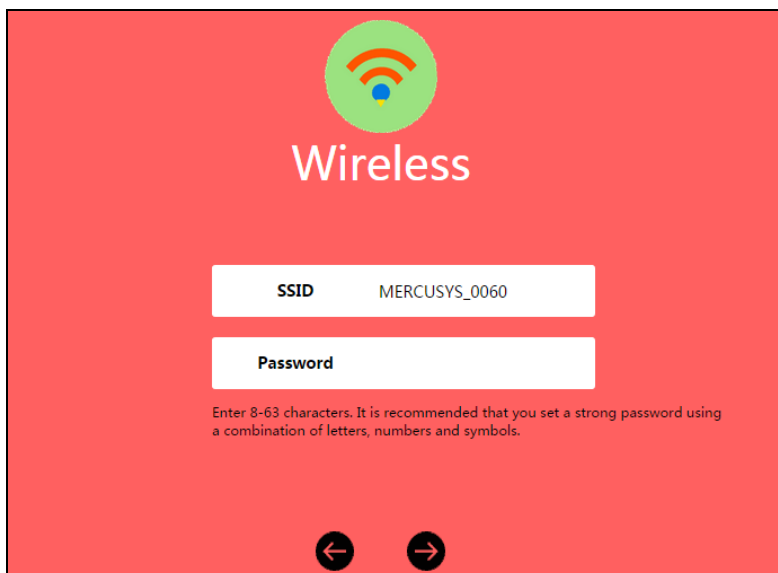
MW330HP 300Mbps High Power Wireless N Router

3. Select your internet connection type and enter the corresponding parameters with the information provided by your ISP and click .



The image shows a red-themed web interface for network configuration. At the top center is a logo featuring a yellow sun with blue rings, above the word "Network" in white. Below the title, it says "Enter the username and password provided by your ISP." There are three white input fields: "Connection Type" with a dropdown menu showing "PPPoE", "Username", and "Password". At the bottom center is a black circular button with a white right-pointing arrow.

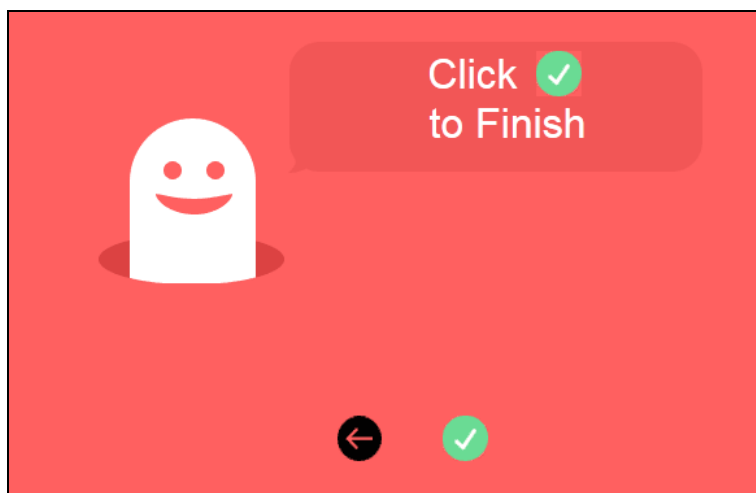
4. Customize the SSID (network name) and password or leave them as default. It is recommended that you set a strong password using a combination of letters, numbers and symbols. Then click .



The image shows a red-themed web interface for wireless configuration. At the top center is a logo featuring a green Wi-Fi symbol, above the word "Wireless" in white. Below the title are two white input fields: "SSID" with the text "MERCUSYS_0060" and "Password". Below the fields, it says "Enter 8-63 characters. It is recommended that you set a strong password using a combination of letters, numbers and symbols." At the bottom center are two black circular buttons with white left and right-pointing arrows.

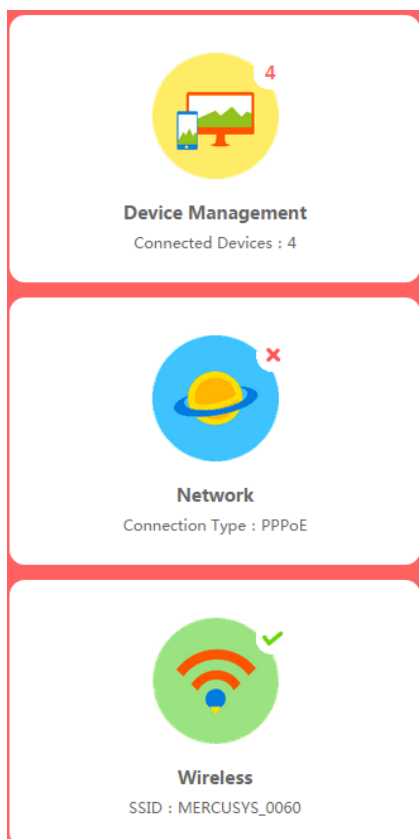
MW330HP 300Mbps High Power Wireless N Router

5. Click  to complete the Quick Setup.



Chapter 4. Basic Configuration

After your successful login, you will see the basic configuration page. The main menus are on the left of the page. On the right you can configure the corresponding function.























There are three functions on the **Basic** page: **Device Management**, **Network** and **Wireless**. The detailed explanations for each function are listed below.





4.1 Device Management

Choose **Device Management**, then you can view and manage the connected or blocked devices on the page.




MW330HP 300Mbps High Power Wireless N Router



1. Connected Devices

Connected Devices 4		Blocked Devices 0		
Device	Rate	Upstream	Downstream	Block
 Unknown IP 192.168.1.200	 ↑ 0B/s ↓ 0B/s Wired			
 Unknown IP 192.168.1.18	 ↑ 0B/s ↓ 0B/s Wired			
 Unknown IP 192.168.1.19	 ↑ 0B/s ↓ 0B/s Wired			
 Unknown IP 192.168.1.60	 ↑ 0B/s ↓ 0B/s Wired			

- **Device** - Displays the name and IP address of the device. You can click  to edit the device name.
- **Rate** - Displays the current upstream and downstream speed of the device.
- **Upstream/Downstream** - You can click the button  or  in the column to set the upstream or downstream speed for the device.
- **Block** - Click  to block the device from accessing the internet.

2. Blocked Devices

Connected Devices 3		Blocked Devices 1	
Device	Allow		
 Unknown MAC 40-16-9F-BF-50-F2	 		

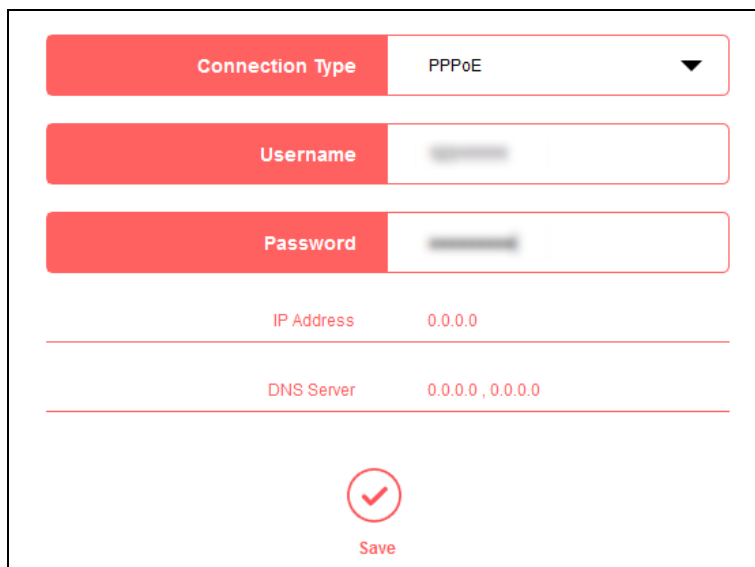
- **Device** - Displays the name and MAC address of the blocked device. You can click  to edit the device name.
- **Allow** - Click  to allow the device to access the internet.

4.2 Network

Choose **Network**, then you can view and customize the basic internet settings on the page.

1. PPPoE

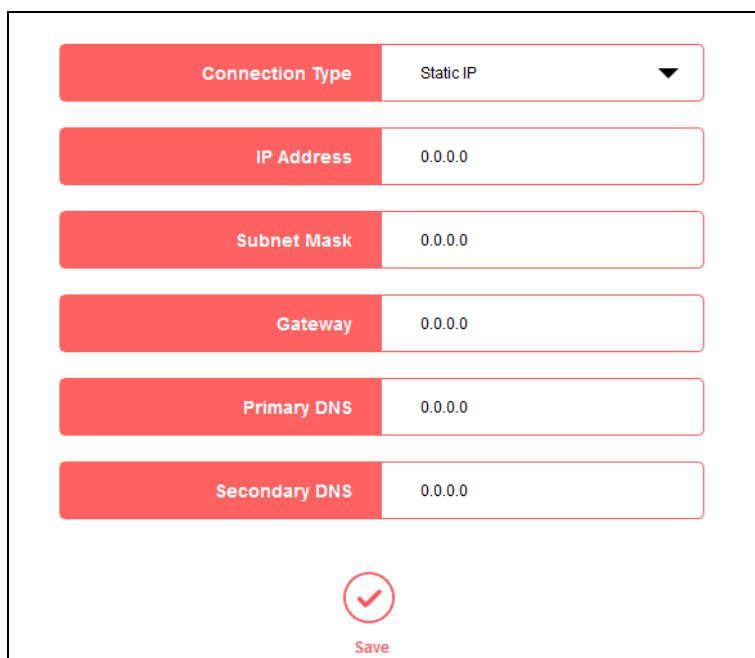
Select this type if you use DSL (Digital Subscriber Line) service and are provided with a username and password by the ISP.



The screenshot shows the PPPoE configuration interface. It features a red header bar with the text "Connection Type" and a dropdown menu set to "PPPoE". Below this are two input fields: "Username" and "Password", both containing blurred text. Underneath are two rows of text: "IP Address" with the value "0.0.0.0" and "DNS Server" with the value "0.0.0.0, 0.0.0.0". At the bottom center, there is a red circular icon with a white checkmark and the word "Save" below it.

2. Static IP

Select this type if your ISP provides a static IP address, subnet mask, gateway and DNS settings.



The screenshot shows the Static IP configuration interface. It features a red header bar with the text "Connection Type" and a dropdown menu set to "Static IP". Below this are six input fields: "IP Address", "Subnet Mask", "Gateway", "Primary DNS", and "Secondary DNS", all containing the value "0.0.0.0". At the bottom center, there is a red circular icon with a white checkmark and the word "Save" below it.

MW330HP 300Mbps High Power Wireless N Router**3. Dynamic IP**

Select this type if your ISP provides the DHCP service, and the router will automatically get IP parameters from your ISP.

Connection Type: Dynamic IP

IP Address: 0.0.0.0

Gateway: 0.0.0.0

Subnet Mask: 0.0.0.0

DNS Server: 0.0.0.0, 0.0.0.0

Save

4. L2TP

Select this type if you connect to an L2TP VPN Server and are provided with a username, password, and IP address/domain name of the server by the ISP.

Connection Type: L2TP

Username:

Password:

Server IP/Domain Name:

Internet IP: 0.0.0.0

Internet DNS: 0.0.0.0

Dynamic IP Static IP

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Save

5. PPTP

Select this type if you connect to a PPTP VPN Server and are provided with a username,

MW330HP 300Mbps High Power Wireless N Router

password, and IP address/domain name of the server by the ISP.

Connection Type: PPTP

Username:

Password:

Server IP/Domain Name:

Internet IP: 0.0.0.0

Internet DNS: 0.0.0.0

Dynamic IP Static IP

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway: 0.0.0.0

DNS Server: 0.0.0.0

4.3 Wireless

Choose **Wireless**, then you can change the SSID (network name) and password on the page.

Wireless ON

SSID: MERCUSYS_A9E4

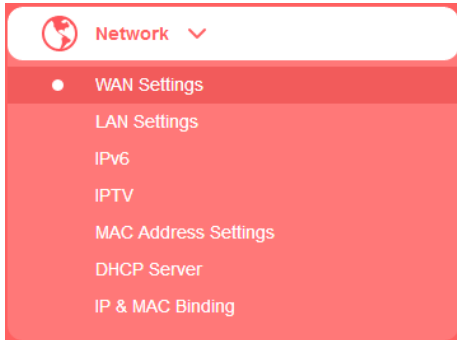
Password:

- **SSID** - Enter a value of up to 32 characters. The default SSID is MERCUSYS_XXXX. This field is case-sensitive.
- **Password** - Enter 8-63 characters using a combination of numbers, letters and symbols. The security version is WPA2-PSK/WPA-PSK, which supports AES encryption that provides a good level of security.

Chapter 5. Advanced Configuration

This chapter will show each web page's key functions and the configuration way.

5.1 Network



There are seven submenus under the Network menu: **WAN Settings**, **LAN Settings**, **IPv6**, **IPTV**, **MAC Address Settings**, **DHCP Server** and **IP & MAC Binding**. Click any of them, and you can configure the corresponding function.

5.1.1 WAN Settings

Go to **Network**→**WAN Settings**, then you can configure the IP parameters of the WAN.

1. PPPoE

Select this type if you use DSL (Digital Subscriber Line) service and are provided with a username and password by the ISP.

- WAN Settings

MW330HP 300Mbps High Power Wireless N Router

- **Username/Password** - Enter the username and password provided by your ISP. These fields are case-sensitive.
- **IP Address/DNS Server** - Displays the current IP address/DNS server of your device.

Click **Save** to make your settings effective.

- **Secondary Connection**

If you have a secondary connection, select and enter the corresponding parameters.

Secondary Connection

None
 Dynamic IP
 Static IP

Save

- **Connection Type**

Connection Type

Connect On Demand ▼

Max Idle Time 15 Minute 0 means that connection is always on.

Save

- **Connect on Demand** - In this mode, the internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the internet again. If you want your internet connection keeps active all the time, please enter 0 in the Max Idle Time field. Otherwise, enter the number of minutes you want to have elapsed before your Internet access disconnects.
- **Connect Automatically** - The connection can be re-established automatically when it is down.
- **Connect Manually** - This mode also supports the Max Idle Time function as **Connect on Demand mode**. The internet connection can be disconnected automatically after a specified inactivity period.

Click **Save** to make the settings effective.

MW330HP 300Mbps High Power Wireless N Router

• PPPoE Advanced settings

PPPoE Advanced settings

MTU Size (in bytes) 1480 The default value is 1480. Do NOT change unless necessary.

WAN Rate Settings Auto Negotiation ▼

Service Name

Server Name

Use ISP Specified IP Address

ISP Specified IP Address 0.0.0.0

Manually set DNS server

Primary DNS 0.0.0.0

Secondary DNS 0.0.0.0 Optional

Save

- **MTU Size (in bytes)** - The default MTU size is 1480 bytes. It is NOT recommended that you change the default **MTU Size** unless required by your ISP.
- **WAN Rate Settings** - Select the rate and duplex mode for the WAN port. It is recommended to keep the default auto mode.
- **Service Name/Server Name** - The service name and server name should not be configured unless it is necessary for your ISP. In most cases, leaving these fields blank will work.
- **Use ISP Specified IP Address** - If your ISP does not automatically assign IP addresses to the router during login, select this option and enter the IP address provided by your ISP in dotted-decimal notation.
- **Manually set DNS server** - If your ISP gives you one or two DNS addresses, select this option and enter the primary and secondary addresses into the corresponding fields. Otherwise, the DNS servers will be assigned dynamically from your ISP.

Click **Save** to make the settings effective.

MW330HP 300Mbps High Power Wireless N Router

2. Dynamic IP

Select this type if your ISP provides the DHCP service, and the router will automatically get IP parameters from your ISP.

WAN Settings ?


Connection Type Dynamic IP ▼

IP Address 0.0.0.0


Subnet Mask 0.0.0.0

Gateway 0.0.0.0

DNS Server 0.0.0.0, 0.0.0.0



Renew



Release

MTU Size (in bytes) 1500

The default value is 1500. Do NOT change unless necessary.

Manually set DNS server


Primary DNS 0.0.0.0

Secondary DNS 0.0.0.0
Optional

Host Name

Get IP with Unicast DHCP Do NOT select unless necessary

WAN Rate Settings Auto Negotiation ▼



Save

- **Renew** - Click to renew the IP parameters from your ISP.
- **Release** - Click to release the IP parameters.
- **MTU Size (in bytes)** - The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 bytes. Do not change the default MTU Size unless required by your ISP.
- **Manually set DNS server** - If your ISP gives you one or two DNS addresses, select this option and enter the primary and secondary addresses into the corresponding fields. Otherwise, the DNS servers will be assigned dynamically from your ISP.
- **Host Name** - This option specifies the host name of the router.

MW330HP 300Mbps High Power Wireless N Router

- **Get IP with Unicast DHCP** - A few ISPs' DHCP servers do not support the broadcast applications. If you cannot get the IP Address normally, you can choose this option. (It is rarely required.)

Click **Save** to make the settings effective.

3. Static IP

Select this type if your ISP provides a static IP address, subnet mask, gateway and DNS settings.

The screenshot shows the WAN Settings interface. At the top right, there is a red question mark icon. The settings are as follows:

- Connection Type:** Static IP (dropdown menu), with an **Auto Detect** button to the right.
- IP Address:** 0.0.0.0
- Subnet Mask:** 0.0.0.0
- Gateway:** 0.0.0.0
- Primary DNS:** 0.0.0.0
- Secondary DNS:** 0.0.0.0, with an **Optional** button to the right.
- MTU Size (in bytes):** 1500. A tooltip below the field states: "The default value is 1500. Do NOT change unless necessary."
- WAN Rate Settings:** Auto Negotiation (dropdown menu).

At the bottom center, there is a red checkmark icon and a **Save** button.

- **IP Address** - Enter the IP address in dotted-decimal notation provided by your ISP.
- **Subnet Mask** - Enter the subnet mask in dotted-decimal notation provided by your ISP. Usually it is 255.255.255.0.
- **Gateway** - Enter the gateway IP address in dotted-decimal notation provided by your ISP.
- **Primary/Secondary DNS** - Enter one or two DNS addresses in dotted-decimal notation provided by your ISP.
- **MTU Size (in bytes)** - The normal MTU (Maximum Transmission Unit) value for most Ethernet networks is 1500 bytes. Do not change the default MTU Size unless required by your ISP.
- **WAN Rate Settings** - Select the rate and duplex mode for the WAN port. It is recommended to keep the default auto mode.

Click **Save** to make the settings effective.

4. L2TP

Select this type if you connect to an L2TP VPN Server and are provided with a username, password, and IP address/domain name of the server by the ISP.

The screenshot shows the WAN Settings interface for L2TP configuration. The 'Connection Type' is set to L2TP. The form includes the following fields and options:

- Connection Type:** L2TP (dropdown menu)
- Username:** (text input field)
- Password:** (text input field)
- Server IP/Domain Name:** (text input field)
- Internet IP:** 0.0.0.0
- Internet DNS:** 0.0.0.0, 0.0.0.0
- Dynamic IP/Static IP:** Radio buttons for Dynamic IP (selected) and Static IP.
- IP Address:** 0.0.0.0
- Subnet Mask:** 0.0.0.0
- Gateway:** 0.0.0.0
- DNS Server:** 0.0.0.0, 0.0.0.0
- Buttons:** Disconnect (with an 'X' icon) and Save (with a checkmark icon).

- **Username/Password** - Enter the username and password provided by your ISP. These fields are case-sensitive.
- **Server IP/Domain Name** - Enter the VPN server's IP address or domain name provided by your ISP.
- **Internet IP/Internet DNS** – Displays the internet IP address/DNS server address assigned by your L2TP server.
- **Dynamic IP/Static IP** – Select Dynamic IP if the IP address and subnet mask are assigned automatically by the ISP. Select Static IP if the IP address, subnet mask, gateway, and DNS addresses are provided by the ISP, and enter this information into the corresponding fields.

MW330HP 300Mbps High Power Wireless N Router

- **Connection Type**

Connection Type

Connect On Demand

Max Idle Time 15 Minute 0 means that connection is always on.

Save

- **Connect on Demand** - In this mode, the internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the Internet again. If you want your internet connection keeps active all the time, please enter 0 in the Max Idle Time field. Otherwise, enter the number of minutes you want to have elapsed before your Internet access disconnects.
- **Connect Automatically** - The connection can be re-established automatically when it is down.
- **Connect Manually** - This mode also supports the Max Idle Time function as **Connect on Demand** mode. The Internet connection can be disconnected automatically after a specified inactivity period.
- **L2TP Advanced settings**

L2TP Advanced settings

MTU Size (in bytes) 1460 The default is 1460, do not change unless necessary.

WAN Rate Settings Auto Negotiation

Save

- **MTU Size (in bytes)** - The default MTU size is 1460 bytes. It is NOT recommended that you change the default MTU size unless required by your ISP.
- **WAN Rate Settings** - Select the rate and duplex mode for the WAN port. It is recommended to keep the default auto mode.

Click **Save** to make the settings effective.

5. PPTP

Select this type if you connect to a PPTP VPN Server and are provided with a username, password, and IP address/domain name of the server by the ISP.

MW330HP 300Mbps High Power Wireless N Router

WAN Settings ?

Connection Type PPTP ▼

Username

Password

Server IP/Domain Name

Internet IP 0.0.0.0

Internet DNS 0.0.0.0, 0.0.0.0



Dynamic IP
 Static IP

IP Address 0.0.0.0

Subnet Mask 0.0.0.0

Gateway 0.0.0.0

DNS Server 0.0.0.0, 0.0.0.0


 Disconnect
 Save

- **Username/Password** - Enter the username and password provided by your ISP. These fields are case-sensitive.
- **Server IP/Domain Name** - Enter the VPN server's IP address or domain name provided by your ISP.
- **Internet IP/Internet DNS** – Displays the internet IP address/DNS server address assigned by your PPTP server.
- **Dynamic IP/Static IP** –Select Dynamic IP if the IP address and subnet mask are assigned automatically by the ISP. Select Static IP if the IP address, subnet mask, gateway, and DNS addresses are provided by the ISP, and enter these information into the corresponding fields.
- **Connection Type**

Connection Type

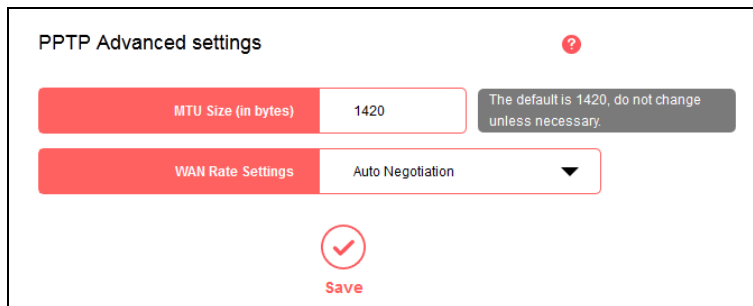
Connect On Demand ▼

Max Idle Time 15 Minute 0 means that connection is always on.

 Save

MW330HP 300Mbps High Power Wireless N Router

- **Connect on Demand** - In this mode, the internet connection can be terminated automatically after a specified inactivity period (Max Idle Time) and be re-established when you attempt to access the Internet again. If you want your Internet connection keeps active all the time, please enter 0 in the Max Idle Time field. Otherwise, enter the number of minutes you want to have elapsed before your Internet access disconnects.
- **Connect Automatically** - The connection can be re-established automatically when it is down.
- **Connect Manually** - This mode also supports the Max Idle Time function as **Connect on Demand** mode. The Internet connection can be disconnected automatically after a specified inactivity period.
- **PPTP Advanced settings**



PPTP Advanced settings

MTU Size (in bytes) 1420 The default is 1420, do not change unless necessary.

WAN Rate Settings Auto Negotiation

Save

- **MTU Size (in bytes)** - The default MTU size is 1420 bytes. It is NOT recommended that you change the default MTU size unless required by your ISP.
- **WAN Rate Settings** - Select the rate and duplex mode for the WAN port. It is recommended to keep the default auto mode.

Click **Save** to make the settings effective.

5.1.2 LAN Settings

Go to **Network**→**LAN Settings**, then you can configure the IP parameters of the LAN on the screen as below.

The screenshot shows the LAN Settings interface. At the top, the title 'LAN Settings' is displayed with a red question mark icon. Below the title, the MAC Address is shown as 50-3A-A0-B7-A9-E4. The LAN IP Settings are set to Manual. The IP Address is 192.168.1.1 and the Subnet Mask is 255.255.255.0. A Save button with a checkmark icon is located at the bottom center.

- **MAC Address** - The physical address of the router, as seen from the LAN. The value can't be changed.
- **LAN IP Settings** - Select Auto or Manual. In Auto mode, the router will automatically detect the LAN-WAN IP address confliction.
- **IP Address** - Enter the IP address of your router.
- **Subnet Mask** - An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.

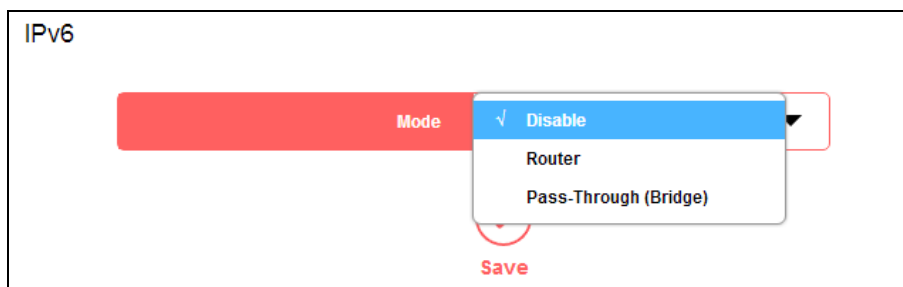
NOTE:

- 1) If you change the LAN IP address, you must use the new IP address to log in to the router.
- 2) If the new LAN IP address you set is not in the same subnet with the previous one, the IP Address pool in the DHCP server will be configured automatically, but the Virtual Server and DMZ Host will not take effect until they are re-configured.

5.1.3 IPv6

Go to **Network**→**IPv6**, you can configure IPv6 settings of your router.

MW330HP 300Mbps High Power Wireless N Router



Select a working mode according to your ISP network topology.

If your ISP uses **Pass-Through (Bridge)** network deployment, select **Pass-Through (Bridge)**. No configuration is required for this type of connection.

For other connection types, select **Router** and complete the IPv6 configuration.

WAN

WAN Connection Type
Normal ▼

Get IPv6 Address
Auto ▼

Manually set DNS server

Link-Local Address

Global Address

Gateway

DNS Server

LAN

Enable Prefix Delegation

Link-Local Address

Prefix

✕
Disconnect

✓
Save

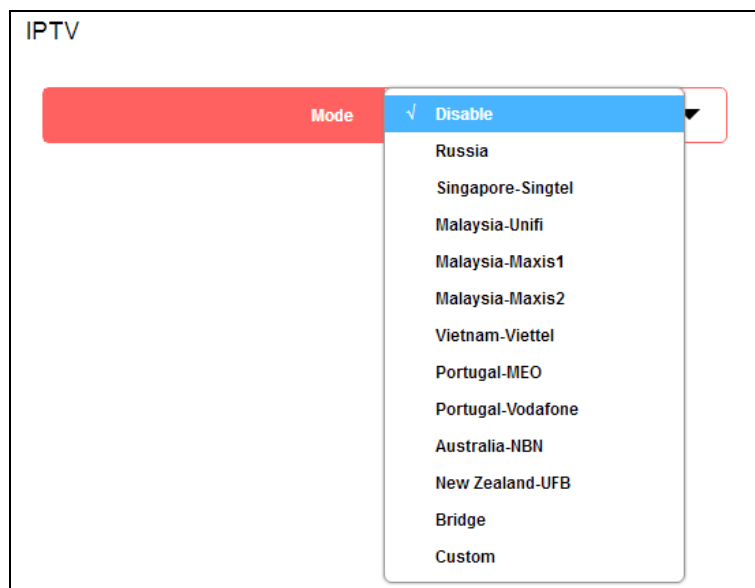
- **Wan Connection Type** - Select an appropriate WAN connection type according to the information provided by your ISP.
 - **Normal** - Select this type for normal IPv6 internet connection.
 - **PPPoE** - Select this type if your ISP uses PPPoEv6 for assigning address, and provides a username and password.
 - **Tunnel 6to4** - Select this type if your ISP uses 6to4 deployment for assigning address.

MW330HP 300Mbps High Power Wireless N Router

- **Get IPv6 Address** - Select Auto or Static according to the information provided by your ISP.
 - **Address** - The IPv6 address of the router's WAN interface.
 - **Prefix Length** - The IPv6 prefix length of the router's WAN interface.
 - **Gateway** - The default IPv6 gateway for the router's WAN interface.
- **Manually set DNS server** - The DNS addresses will be automatically assigned to the router. You can also set manually according to your needs.
 - **Primary/Secondary DNS** - Enter the primary/Secondary IPv6 DNS server address provided by your ISP.
- **Enable Prefix Delegation** - Select to get a prefix delegation by DHCPv6 server from the ISP. Clients in LAN will generate an IPv6 address with this prefix.

5.1.4 IPTV

Go to **Network**→**IPTV**, you can configure IPTV setup to enable IPTV service provided by your ISP.

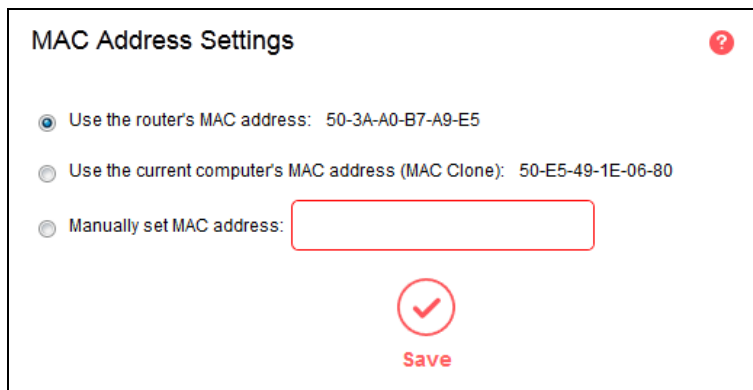


To configure IPTV, follow the steps below.

1. Select the appropriate mode according to your ISP.
 - Select **Bridge** if your ISP is not listed and no other parameters are required.
 - Select **Custom** if your ISP is not listed but provides necessary parameters.
2. After you have selected a mode, the necessary parameters, including the LAN port for IPTV connection, are predetermined.
3. Click **Save**.
4. Connect the set-top box to the corresponding LAN port which is predetermined or you have specified.

5.1.5 MAC Address Settings

Go to **Network**→**MAC Address Settings**, you can configure the MAC address of the WAN on the page.




MAC Address Settings

Use the router's MAC address: 50-3A-A0-B7-A9-E5

Use the current computer's MAC address (MAC Clone): 50-E5-49-1E-06-80

Manually set MAC address:


Save

Some ISPs require that you register the MAC address of your adapter. Changes are rarely needed here.

- **Use the router's MAC address** - By default, this option is selected.
- **Use the current computer's MAC address (MAC Clone)** - Some ISPs will register the MAC address of your computer when you access the Internet for the first time through their Cable modem. If you add a router into your network to share your Internet connection, the ISP will not accept it as the MAC address is changed. In this case, you need to clone your computer's MAC address to the router.
- **Manually set MAC address** - If your ISP requires you to register the MAC address, please enter the correct MAC address into this field in XX-XX-XX-XX-XX-XX format (X is any hexadecimal digit).

Click **Save** to make the settings effective.

NOTE:

Only the PC on your LAN can use the MAC Clone function.

5.1.6 DHCP Server

Go to **Network**→**DHCP Server**, you can configure the DHCP Server settings on the page. The router is set up by default as a DHCP (Dynamic Host Configuration Protocol) server, which provides the TCP/IP configuration for all the PCs that are connected to the router on the LAN.

DHCP Server ON

Start IP Address: 192.168.1.100

End IP Address: 192.168.1.199

Address Lease Time: 120 minutes (1-2880, the default value is 120)

Gateway: 0.0.0.0

Primary DNS: 0.0.0.0

Secondary DNS: 0.0.0.0

Save

DHCP Equipment

Host	MAC Address	IP Address	Effective Time
Refresh			

- **DHCP Server** - Click the button to enable or disable the DHCP server. If you disable the server, you must have another DHCP server within your network or else you must configure the computer manually.
- **Start IP Address** - Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.1.100 is the default start address.
- **End IP Address** - Specify an IP address for the DHCP Server to end with when assigning IP addresses. 192.168.1.199 is the default end address.
- **Address Lease Time** - The amount of time a network user will be allowed connection to the router with their current dynamic IP Address. Enter the amount of time in minutes and the user will be leased this dynamic IP Address. After the time is up, the user will be automatically assigned a new dynamic IP address. The range of the time is 1 ~ 2880 minutes. The default value is 120 minutes.
- **Gateway** - (Optional.) It is recommended to enter the IP address of the LAN port of the router.

MW330HP 300Mbps High Power Wireless N Router

- **Primary DNS** - (Optional.) Enter the DNS IP address provided by your ISP or consult your ISP.
- **Secondary DNS** - (Optional.) Enter the IP address of another DNS server if your ISP provides two DNS servers.

NOTE:

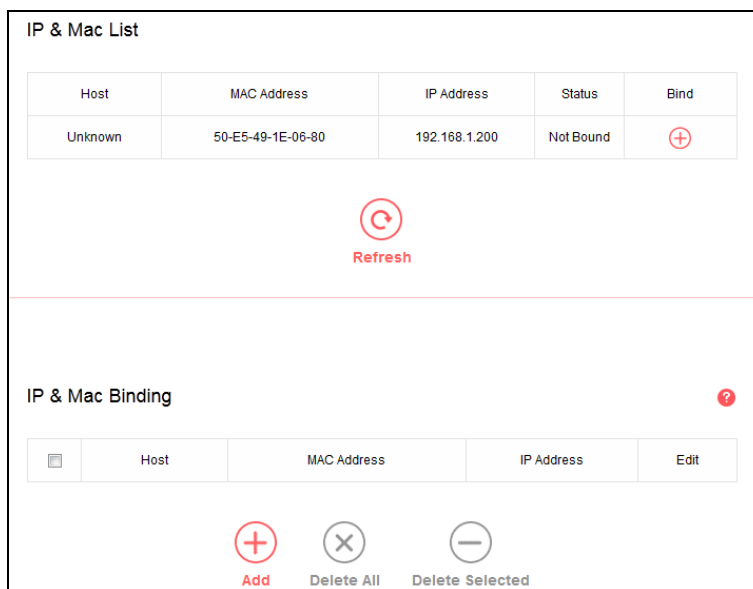
To use the DHCP server function of the router, you must configure all computers on the LAN as Obtain an IP Address automatically.

- **Host** - The name of the DHCP client.
- **MAC Address** - The MAC address of the DHCP client
- **IP Address** - The IP address that the router has allocated to the DHCP client
- **Effective Time** - The time of the DHCP client leased. After the dynamic IP address has expired, a new dynamic IP address will be automatically assigned to the user.

Click **Refresh** to show the current attached devices.

5.1.7 IP & MAC Binding

Go to **Network→IP & MAC Binding**, then you can control access of a specific computer in the LAN by binding the IP address and the MAC address of the device together.



IP & Mac List

Host	MAC Address	IP Address	Status	Bind
Unknown	50-E5-49-1E-06-80	192.168.1.200	Not Bound	+

Refresh


IP & Mac Binding

Host	MAC Address	IP Address	Edit
------	-------------	------------	------

Add Delete All Delete Selected

- **Host** - The name of the controlled computer in the LAN.
- **MAC Address** - The MAC address of the controlled computer in the LAN.
- **IP Address** - The assigned IP address of the controlled computer in the LAN.

MW330HP 300Mbps High Power Wireless N Router

- **Status** - Displays whether the MAC and IP address are bound or not.
- **Bind** - Click  to add an entry to the IP & Mac binding list.

Click **Refresh** to refresh all items.


To add an IP & MAC Binding entry, follow the steps below.

1. Click **Add**.

<input type="checkbox"/>	Host	MAC Address	IP Address	Edit
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Cancel"/> <input type="button" value="Save"/>

2. Enter the **Host** name.
3. Enter the **MAC Address** of the device.
4. Enter the **IP Address** that you want to bind to the MAC address.
5. Click **Save**.

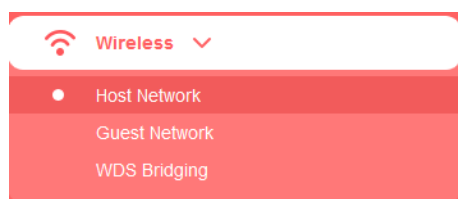
To edit an existing entry, follow the steps below.

1. Find the entry in the table.
2. Click  in the **Edit** column.
3. Enter the parameters as you desire, then click **Save**.

To delete existing entries, select the entries in the table, then click **Delete Selected**.

To delete all entries, click **Delete All**.

5.2 Wireless



There are three submenus under the Wireless menu: **Host Network**, **Guest Network** and **WDS Bridging**. Click any of them to configure the corresponding function.

5.2.1 Host Network

Go to **Wireless**→**Host Network**, then you can configure the settings for the wireless host network on this page.

MW330HP 300Mbps High Power Wireless N Router

Host Network ON ?

SSID MERCUSYS_1E42 Enable SSID Broadcast

Password No Security

Channel Auto ▼

Mode 11bgn mixed ▼

Channel Width Auto ▼

AP Isolation

✓
Save

- **SSID** - Enter a value of up to 32 characters. The default SSID is MERCUSYS_XXXX (XXXX indicates the last unique four numbers of each router's MAC address). This field is case-sensitive.
- **Password** - Enter 8-63 characters using a combination of numbers, letters and symbols. The security version is WPA2-PSK/WPA-PSK, which supports AES encryption that provides a good level of security. If you select No Security, the field will be left blank.
- **Channel** - This field determines which operating frequency will be used. The default channel is set to **Auto**, so the router will choose the best channel automatically. It is not necessary to change the wireless channel unless you notice interference problems with another nearby access point.
- **Mode** - Select the desired mode.

Select the desired wireless mode. It is strongly recommended to select **11bgn mixed**, and all of 802.11b, 802.11g and 802.11n wireless stations can connect to the router.

11bgn mixed - Select if you are using a mix of 802.11b, 11g, and 11n wireless clients.

11n only - Select if you are using only 11n wireless clients.

11bg mixed - Select if you are using both 802.11b and 802.11g wireless clients.

11g only - Select if you are using only 11g wireless clients.

11b only - Select if you are using only 11b wireless clients.

NOTE:

If **11bg mixed** is selected in the **Mode** field, the **Channel Width** field will turn grey and the value will become 20M, which is unable to be changed.

- **Channel Width** - Select the channel width from the drop-down list. The default setting is **Auto**.

MW330HP 300Mbps High Power Wireless N Router

- **AP Isolation** - Select this checkbox to enable the AP Isolation feature that allows you to confine and restrict all wireless devices on your network from interacting with each other, but still able to access the internet. AP isolation is disabled by default.
- **Enable SSID Broadcast** - If you select the Enable SSID Broadcast checkbox, the wireless router will broadcast its name (SSID) on the air.

5.2.2 Guest Network

Go to **Wireless**→**Guest Network**, then you can configure the settings for the wireless guest network on this page.

Guest Network OFF

SSID: MEGuest_A9E4

Password: No Security

Access my local network: No

Upstream Bandwidth: 0 KB/s (0 means no limit)

Downstream Bandwidth: 0 KB/s (0 means no limit)

Set Guest Access Time: No

Save

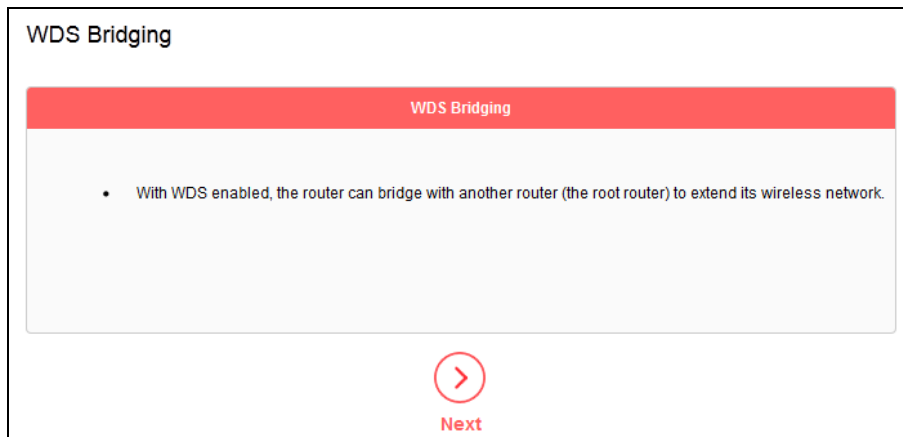
- **Guest Network** - Click to enable or disable the Guest Network function here.
- **SSID/Password** - Set the network name and password for Guest Network. Password may contain 8-63 characters. It is recommended you use a combination of numbers, letters and symbols.
- **Access my local network** - Select whether to allow wireless devices on the guest network to access your local network. The default value is No.
- **Upstream Bandwidth** - The upload speed through the WAN port for Guest Network.
- **Downstream Bandwidth** - The download speed through the WAN port for Guest Network.
- **Set Guest Access Time** - Set the time period to enable guest network.

5.2.3 WDS Bridging

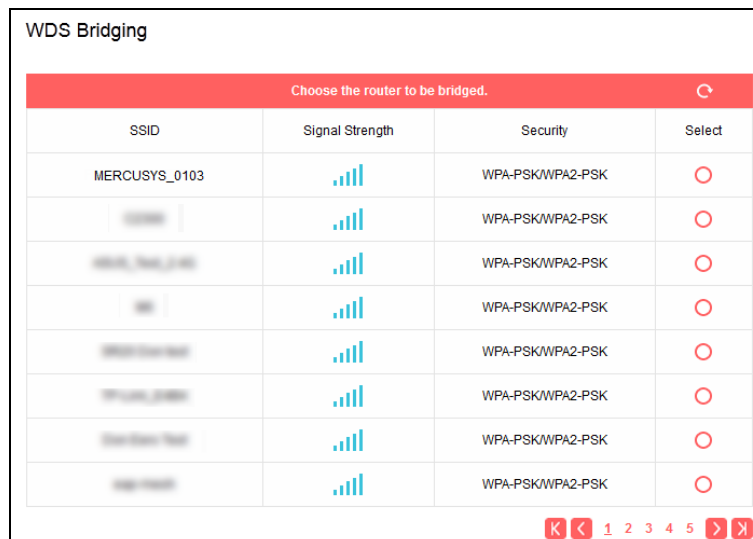
Go to **Wireless**→**WDS Bridging**, and follow the steps below to configure WDS bridging settings.

MW330HP 300Mbps High Power Wireless N Router

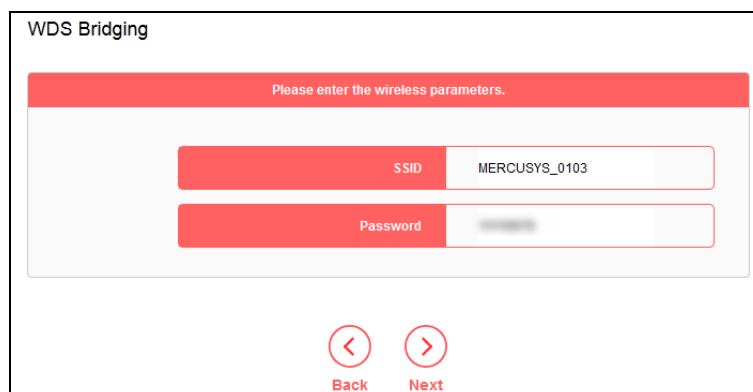
1. Click **Next** to start the setup.



2. Select a network from the table and enter the password when prompted, or you can click **Add router manually** and enter the network name and password. Then click **Next**.

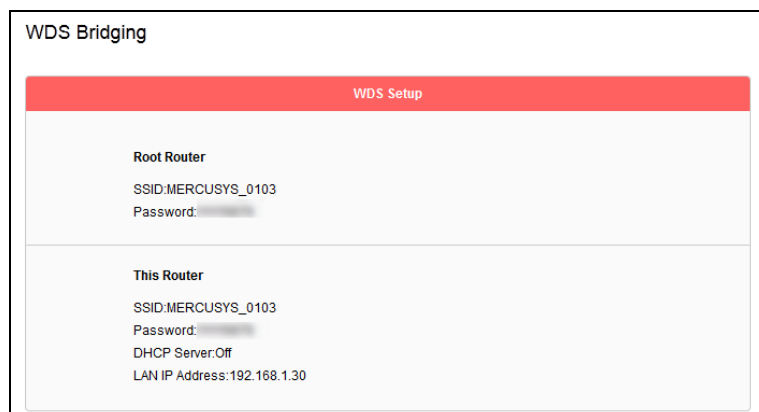


3. Enter the wireless parameters of your router. It is recommended to set the same SSID and Password as the root router. Then click **Next**.



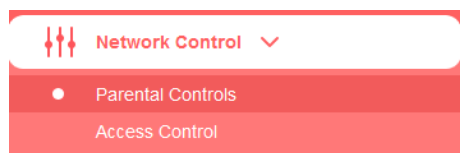
MW330HP 300Mbps High Power Wireless N Router

4. Check the parameters and click **Finish** to complete the setup.



Note: If you have changed the LAN IP address of your router during the setup, you need to log in to the web management page using the domain name (<http://mwlogin.net>) or the new LAN IP you have just set.

5.3 Network Control



There are two submenus under the Network Control menu: **Parental Controls** and **Access Control**. Click any of them to configure the corresponding function.

5.3.1 Parental Controls

Go to **Network Control**→**Parental Controls**, and then you can configure the parental controls in the screen. The Parental Controls function can be used to control the internet activities of the child, limit the child to access certain websites and restrict the time of surfing.

- **Parental Controls** – Click to enable or disable this function.
- **Parental Devices** – Displays the MAC address of the controlling PC.
- **Edit** - Here you can edit an existing entry.
- **Add** - Click to add a new device.
- **Delete All** - Click to delete all devices in the table.
- **Delete Selected** - Click to delete selected devices from the table.
- **Effective Time** - All devices except the parental devices will be restricted. Click and drag across the cells to set the restriction time periods.

To add a new entry, follow the steps below.

1. Click **Add**.

2. Select a device from the drop-down list.
3. Click **Save**.

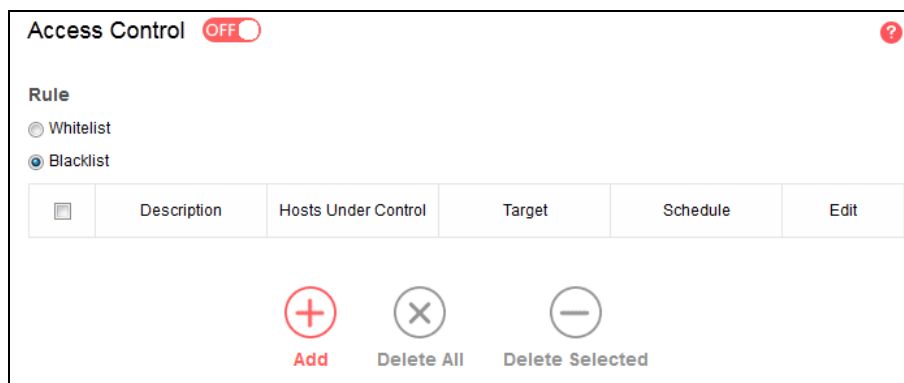
To set the effective time, follow the steps below.

MW330HP 300Mbps High Power Wireless N Router

1. Click and drag across the cells to set the restriction time periods.
2. Click **Save**.

5.3.2 Access Control

Go to **Network Control**→**Access Control**, and then you can configure the access control in the screen.



- **Access Control** - Click the button to enable or disable Access Control.
- **White List** - Select to **allow** only the internet activities specified in the table.
- **Black List** - Select to **block** only the internet activities specified in the table.
- **Description** - Displays the name of the rule and this name is unique.
- **Hosts Under Control** - Displays the host selected in the corresponding rule.
- **Target** - Displays the target selected in the corresponding rule.
- **Schedule** - Displays the schedule selected in the corresponding rule.
- **Edit** - Here you can edit an existing rule.
- **Add** - Click to add a new rule entry.
- **Delete All** - Click to delete all the entries in the table.
- **Delete Selected** - Click to delete selected entries in the table.

To add a new rule, follow the steps below.

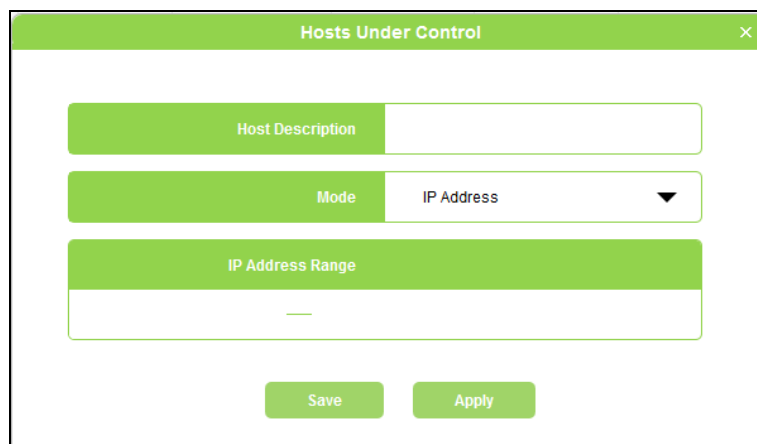
1. Toggle on to enable Access Control.

<input type="checkbox"/>	Description	Hosts Under Control	Target	Schedule	Edit
	<input type="text"/>	<input type="button" value="Configure"/>	<input type="button" value="Configure"/>	<input type="button" value="Configure"/>	<input type="button" value="Cancel"/> <input type="button" value="Save"/>

2. Select **Whitelist** or **Blacklist**.

MW330HP 300Mbps High Power Wireless N Router

3. Click Add and enter a brief description for the rule.
4. Click **Configure** in the **Hosts Under Control** column to add a host, then click **Apply**.



- **Host Description** - In this field, create a unique description for the host.
- **Mode** - Here are two options, **IP Address** and **MAC Address**. You can select either of them from the drop-down list.

If the **IP Address** is selected, you can see the following item:

- **IP Address Range** - Enter the IP address or address range of the host in dotted-decimal format (e.g. 192.168.1.23).

If the MAC Address is selected, you can see the following item:

- **MAC Address** - Enter the MAC address of the host in XX-XX-XX-XX-XX-XX format (e.g. 00-11-22-33-44-AA).

MW330HP 300Mbps High Power Wireless N Router

5. Click **Configure** in the **Target** column, you can select **Any Target**, or select **Add** to add a new target. Then click **Apply**.

- **Description** - In this field, create a description for the target. Note that this description should be different from existing descriptions.
- **Mode** - Here are two options, IP Address and Website Domain. You can choose either of them from the drop-down list.

If the **IP Address** is selected, you will see the following items:

- **IP Address Range** - Enter the IP address (or address range) of the target (targets) in dotted-decimal format.
- **Common Service** - Here lists some common service ports. Select one from the drop-down list, and the corresponding port number will be filled in the Port field automatically. For example, if you select **HTTP**, **80** will be filled in the Port automatically.
- **Port** - Specify the port or port range for the target. For some common service ports, you can make use of the Common Service item above.
- **Protocol** - Here are three options, All, TCP and UDP. Select one of them from the drop-down list for the target.

If the **Website Domain** is selected, you will see the following items:

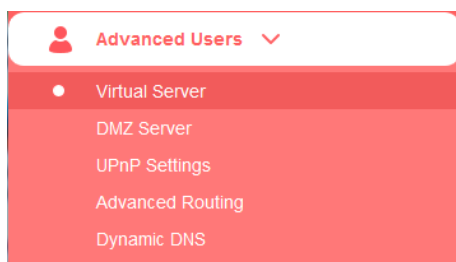
MW330HP 300Mbps High Power Wireless N Router

- **Website Domain** - Here you can enter 4 domain names, either the full name or the keywords (for example, Mercusys). Any domain name with keywords in it (www.mercusys.com) will be blocked or allowed.
6. Click **Configure** in the **Schedule** column, then select **Any Time**, or select **Add** to add a new schedule. Then click **Apply**.

- **Description** - In this field, create a description for the schedule. Note that this description should be unique.
 - **Time** - Click and drag across the cells to set the effective time periods.
7. Click **Save** to complete the settings.

Rule					
<input type="radio"/> Whitelist <input checked="" type="radio"/> Blacklist					
	Description	Hosts Under Control	Target	Schedule	Edit
<input type="checkbox"/>	Rule_1	Host_1	Target_1	Schedule_1	<input type="button" value="Cancel"/> <input type="button" value="Save"/>

5.4 Advanced Users



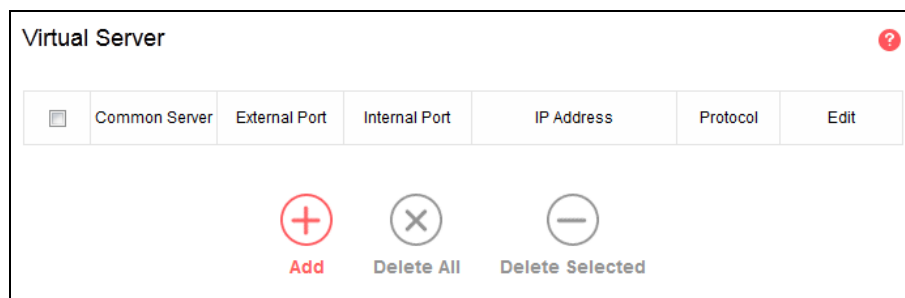
There are five submenus under the Forwarding menu: **Virtual Server**, **DMZ Server**, **UPnP**

MW330HP 300Mbps High Power Wireless N Router

Settings, Advanced Routing and Dynamic DNS. Click any of them to configure the corresponding function.

5.4.1 Virtual Server


Go to **Advanced Users**→**Virtual Server**, and then you can view and add virtual server on the page. Virtual server can be used for setting up public services on your LAN.



- **Common Server** - Some common services already exist in the drop-down list.
- **External Port** - The numbers of External Service Ports. You can enter a service port or a range of service ports (the format is XXX - YYY; XXX is the Start port and YYY is the End port).
- **Internal Port** - The Internal Service Port number of the PC running the service application. You can leave it blank if the **Internal Port** is the same as the **External Port**, or enter a specific port number when **External Port** is a single one.
- **IP Address** - The IP address of the PC running the service application.
- **Protocol** - The protocol used for this application, either **All** (all protocols supported by the router), **TCP** or **UDP**.
- **Edit** - Here you can edit an existing entry.
- **Add** - Click to add a new rule entry.
- **Delete All** - Click to delete all the entries in the table.
- **Delete Selected** - Click to delete selected entries in the table.

To set up a virtual server entry:

1. Click **Add**.



2. Select a service from drop-down list to automatically populate the appropriate port number in the **External Port** field. If the service that you want to use is not listed, enter the

MW330HP 300Mbps High Power Wireless N Router


number of the service port or service port range in the **External Port** field.

3. Leave the **Internal Port** blank if it is the same as the External Port, or enter a specific port number if the External Port is a single port.
4. Enter the IP address of the computer running the service application in the **IP Address** field.
5. Select the protocol used for this application in the **Protocol** drop-down list, either **TCP**, **UDP**, or **All** (All protocols supported by the router).
6. Click **Save**.

NOTE:

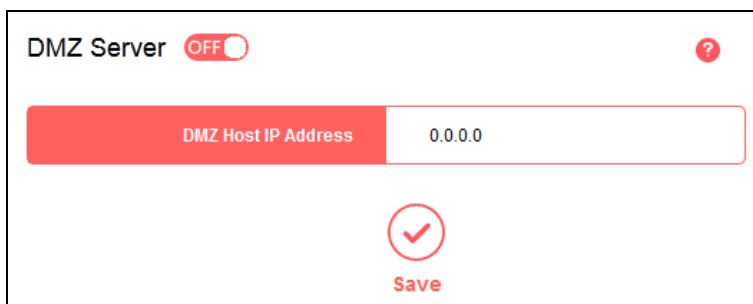
Please make sure the external port is different from the port used for local and remote management, or the virtual server may not be working properly.

To modify an existing entry:

1. Find the desired entry in the table.
2. Click  in the **Edit** column.
3. Click **Save**.


5.4.2 DMZ Server

Go to **Advanced Users**→**DMZ Server**, and then you can view and configure DMZ host on the page. The DMZ host feature allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or video conferencing.



DMZ Server OFF ?

DMZ Host IP Address


Save

To assign a computer or server to be a DMZ server:

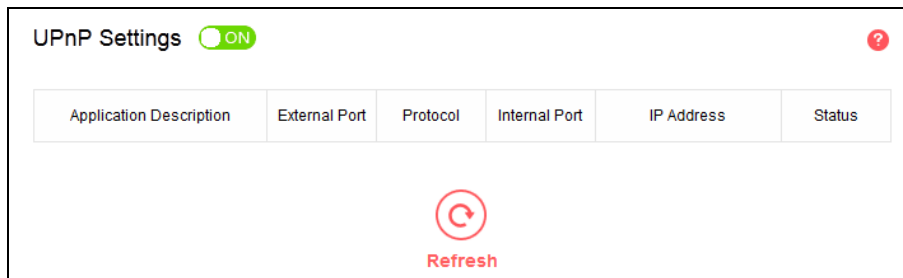
1. Enter the IP address of a local PC that is set to be DMZ host in the **DMZ Host IP Address** field.
2. Toggle On to enable DMZ Server.
3. Click **Save**.

5.4.3 UPnP Settings

Go to **Advanced Users**→**UPnP Settings**, and then you can view the information about **UPnP**. The Universal Plug and Play (UPnP) feature allows the devices, such as Internet computers, to

MW330HP 300Mbps High Power Wireless N Router

access the local host resources or devices as needed. UPnP devices can be automatically discovered by the UPnP service application on the LAN.

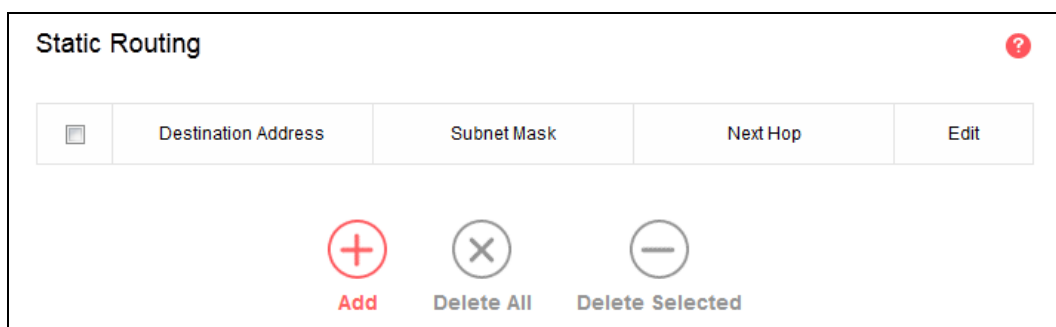


- **Application Description** - The description about the application which initiates the UPnP request.
- **External Port** - The port which the router opened for the application.
- **Protocol** - The type of protocol which is opened.
- **Internal Port** - The port which the router opened for local host.
- **IP Address** - The IP address of the local host which initiates the UPnP request.
- **Status** – Displays the port is active or not.
- **Refresh** - Click to update the current UPnP settings List.

5.4.4 Advanced Routing

Go to **Advanced Users**→**Advanced Routing**, and then you can configure the static routing and view system routing list. Advanced routing is used to predetermine a fixed route for the network information packets to reach a specific host or network.

- **Static Routing**



- **Destination Address** - The address of the network or host that you want to assign to a static route.
- **Subnet Mask** - The **Subnet Mask** determines which portion of an IP Address is the network portion, and which portion is the host portion.
- **Next Hop** - The IP Address of the gateway device that allows for contact between the router and the network or host.
- **Edit** - Here you can edit an existing entry.

MW330HP 300Mbps High Power Wireless N Router

- **Add** - Click to add a new rule entry.
- **Delete All** - Click to delete all the entries in the table.
- **Delete Selected** - Click to delete selected entries in the table.

To add a static routing entry:


1. Click **Add**.

<input type="checkbox"/>	Destination Address	Subnet Mask	Next Hop	Edit
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Cancel"/> <input type="button" value="Save"/>

2. Enter the parameters in the corresponding fields.
3. Click **Save** to make the settings effective.

- **System Routing List**

System Routing List			
Destination Address	Subnet Mask	Next Hop	Port
192.168.1.0	255.255.255.0	192.168.1.1	LAN/WLAN


 Refresh

- **Destination Address** - The address of the network or host to which the static route is assigned.
- **Subnet Mask** - The subnet mask determines which portion of an IP address is the network portion, and which portion is the host portion.
- **Next Hop** - The IP address of the gateway device that allows for contact between the router and the network or host.
- **Port** - Displays either the Destination IP Address is on the LAN/WLAN or on the WAN.

5.4.5 Dynamic DNS

Go to **Advanced Users**→**Dynamic DNS**, and you can configure the Dynamic DNS function.

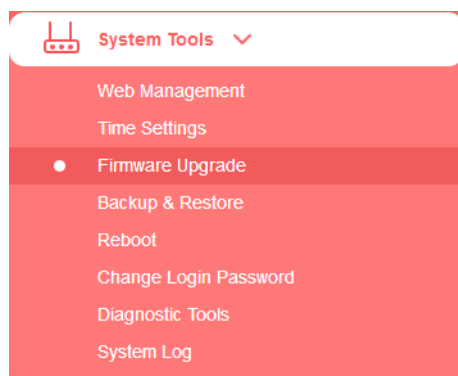
MW330HP**300Mbps High Power Wireless N Router**

- **Service Provider** - The Dynamic DNS service provider.
- **Dynamic DNS Client** – Select to enable or disable dynamic DNS client.
- **Username/Password** - Enter the username and password of your DDNS account.
- **Domain Name** - Enter the domain name provided by the DDNS service provider.

To set up for Dynamic DNS, follow these steps:

1. Select your service provider from the drop-down list.
2. Enable the Dynamic DNS client.
3. Enter the username and password of your DDNS account.
If you do not have an account, click **Go to register...** to register an account.
4. Enter domain name you registered with the Dynamic DNS service provider.
5. Click **Save**.

5.5 System Tools



There are eight submenus under the Forwarding menu: **Web Management**, **Time Settings**, **Firmware Upgrade**, **Backup & Restore**, **Reboot**, **Change Login Password**, **Diagnostic Tools**

MW330HP 300Mbps High Power Wireless N Router

and **System Log**. Click any of them to configure the corresponding function.

5.5.1 Web Management

Go to **System Tools**→**Web Management**, and then you can configure the management rule on the page.

The screenshot shows the 'Web Management' configuration page. It is divided into two sections: 'Local Management' and 'Remote Management'. Each section has a dropdown menu and a 'Save' button.

Section	Current Setting
Local Management	Allow all local devices.
Remote Management	Disable


- **Local Management**

To allow specific devices to access and manage the router locally, follow these steps:

1. Select **Allow specified local devices**.

The screenshot shows the 'Local Management' configuration page with the 'Allow specified local devices' option selected. Below this, there are four fields for entering MAC addresses, each with a default value of '00-00-00-00-00-00'. At the bottom, there is a 'Current Computer's MAC Address' field with the value '50-E5-49-1E-06-80' and a '+' button to add it to the list.

Field	Value
Local Management	Allow specified local devices.
MAC Address1	00-00-00-00-00-00
MAC Address2	00-00-00-00-00-00
MAC Address3	00-00-00-00-00-00
MAC Address4	00-00-00-00-00-00
Current Computer's MAC Address	50-E5-49-1E-06-80

2. Enter each MAC address in a separate field. You can click  to add your current computer's MAC address to the list above.
3. Click **Save**.

MW330HP 300Mbps High Power Wireless N Router

• Remote Management

To allow all devices to access and manage the router remotely, follow the steps below:

1. Select **Allow all remote devices**.

The screenshot shows the 'Remote Management' configuration interface. At the top, there is a red header with 'Remote Management' and a dropdown menu set to 'Allow all remote devices.'. Below this is a 'Port' field with the value '8888'. At the bottom, there is a red checkmark icon and a 'Save' button.

2. Enter the port number to be used to access the router between 1024 and 65535. The default value is 8888.
3. Click **Save**.

To allow specified devices to access and manage the router remotely, follow the steps below:

1. Select **Allow specified remote devices**.

The screenshot shows the 'Remote Management' configuration interface. At the top, there is a red header with 'Remote Management' and a dropdown menu set to 'Allow specified remote devices.'. Below this are two input fields: 'IP Address' with the value '0.0.0.0' and 'Port' with the value '8888'. At the bottom, there is a red checkmark icon and a 'Save' button.

2. Enter the **IP Address** you will use when accessing your router from the Internet.
3. Enter the port number to be used to access the router between 1024 and 65535. The default value is 8888.
4. Click **Save**.

NOTE:

1. To access the router, you should type your router's WAN IP address into your browser's address field, followed by a colon and the custom port number (e.g. http://202.96.12.8:8080). After entering the correct password, you will be able to access the router's web management page.
2. Be sure to set a very secure password for the router.

5.5.2 Time Settings

Go to **System Tools**→**Time Settings**, and then you can configure the time on the following page.

MW330HP 300Mbps High Power Wireless N Router

- **Time Zone** - Select your local time zone from this drop-down list.
- **Date/Time** - The router automatically obtains GMT from the internet based on the time zone you select.

To change the time settings, follow these steps:

1. Select your local time zone from the drop-down list.
2. Click **Save**.

NOTE:

This setting will be used for some time-based functions such as Parental Controls and Access Control. Please specify your time zone before you configure these functions.

5.5.3 Firmware Upgrade

Go to **System Tools**→**Firmware Upgrade**, and then you can update the latest version of firmware for the router on the page.

- **Hardware Version** - Displays the current hardware version. The version of the upgrade file must accord with the router's current hardware version.
- **Firmware Version** - Displays the current firmware version.

To upgrade the router's firmware, follow the steps below:

MW330HP 300Mbps High Power Wireless N Router

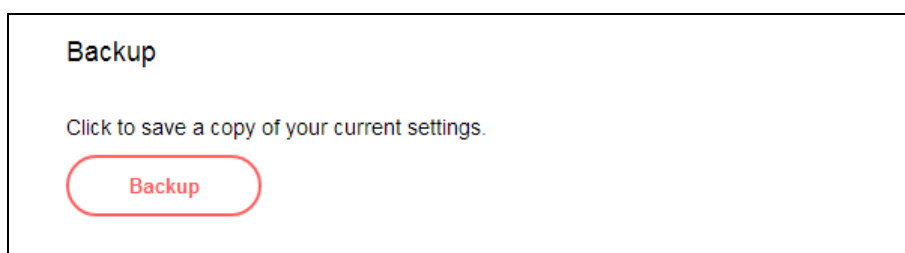
1. Download the latest firmware upgrade file from our website (www.mercusys.com).
2. Click **Browse** to locate and select the downloaded firmware file.
3. Click **Upgrade**.
4. The router will reboot automatically after the upgrade.

NOTE:

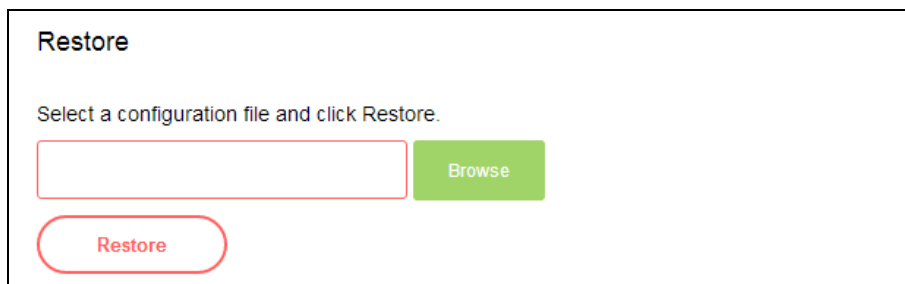
To avoid any damage, it is important to keep router powered on during the entire process.

5.5.4 Backup & Restore

Go to **System Tools**→**Backup & Restore**, and then you can save the current configuration of the router as a backup file and restore the configuration.



Click **Backup** to save all configuration settings as a backup file to your local computer.



To upgrade the router's configuration, follow the steps below.

1. Click **Browse** to locate and select the configuration file which you want to restore.
2. Click **Restore** to update the configuration with the file you have selected.

NOTE:

1. All current configurations will be lost once the router is restored.
2. To avoid any damage, keep the device powered on during the process
3. After the upgrade process is complete (about 20 seconds), the device will reboot automatically.

Factory Default Restore

Click the button to restore all the settings to their default values.

Restore

To restore the configurations of the router to factory defaults, follow the steps below.

Click **Restore** to reset all configuration settings to their default values.

- The default **IP address**: 192.168.1.1
- The default **Subnet Mask**: 255.255.255.0

NOTE:

All your custom settings will be lost when defaults are restored.

5.5.5 Reboot

Go to **System Tools**→**Reboot**, and then you can click the **Reboot** button to reboot the router on the page.

Reboot

Reboot

Click the button to reboot this device.

Some settings of the router will take effect only after rebooting, which include:

- Upgrade the firmware of the router (system will reboot automatically).
- Restore the router's settings to factory defaults (system will reboot automatically).
- Update the configuration with the file (system will reboot automatically).

5.5.6 Change Login Password

Go to **System Tools**→**Change Login Password**, and then you can change the login username and password of the router on the page.


MW330HP 300Mbps High Power Wireless N Router

Change Login Password

Old Password

New Password

Confirm New Password


Save

To change the router's login password, follow the steps below.

1. Enter the **Old Password** of the router.
2. Enter the **New Password**.
3. Enter the new password in the **Confirm New Password** field.
4. Click **Save**.

For subsequent logins, use the new password you have set.

5.5.7 Diagnostic Tools

Go to **System Tools**→**Diagnostic Tools**, and then you can test the Internet connection of your network via Ping or Tracert on the page.

MW330HP 300Mbps High Power Wireless N Router

Diagnostic Tools

On this page, you can test the Internet connection of your network via Ping or Tracert.

Parameters Settings

Select Ping Tracert

IP Address/ Domain Name	
Ping Packet Number	4 (1-50)
Ping Packet Size	64 (4-1472 bytes)
Ping Timeout	800 (100-2000 milliseconds)
Tracert Max Hops	20 (1-30)

Diagnostic Results

The router is ready.

Start

- **Ping** - This diagnostic tool troubleshoots connectivity, reachability, and name resolution to a given host or gateway.
- **Tracert** - This diagnostic tool tests the performance of a connection.

NOTE:

You can use ping/tracert to test numeric IP address or domain name. If pinging/tracerting the IP address is successful, but pinging/tracerouting the domain name is not, you might have a name resolution problem. In this case, ensure that the specified domain name can be resolved by using Domain Name System (DNS) queries.

- **IP Address/Domain Name** - Enter the IP address or domain name of the PC whose connection you wish to diagnose.
- **Pings Packet Number** - Specifies the number of Echo Request messages sent. The default is 4.
- **Ping Packet Size** - Specifies the number of data bytes to be sent. The default is 64.

MW330HP 300Mbps High Power Wireless N Router

- **Ping Timeout** - Time to wait for a response, in milliseconds. The default is 800.
- **Tracert Max Hops** - Set the maximum number of hops (max TTL to be reached) in the path to search for the target (destination). The default is 20.

Click **Start** to check the connectivity of the Internet.

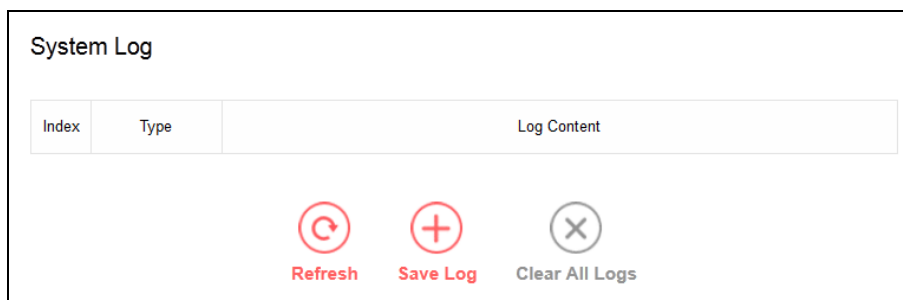
The **Diagnostic Results** page displays the result of diagnosis.

NOTE:

1. Only one user can use the diagnostic tools at one time.
2. Ping Packet Number, Ping Packet Size and Ping Timeout are Ping Parameters, and Tracert Max Hop is Tracert Parameter.

5.5.8 System Log

Go to **System Tools**→**System Log**, and then you can view the logs of the router.



- **Refresh** - Refresh the page to show the latest log list.
- **Save Log** - Click to save all the logs in a txt file.
- **Clear All Logs** - All the logs will be deleted from the router permanently, not just from the page.

Appendix A: FAQ (Frequently Asked Questions)

Q1. What should I do if the login window does not appear?

- Make sure the router connects to the computer correctly.
- If the computer is set to a static IP address, change its settings to obtain an IP address automatically.
- Verify that <http://mwlogin.net> is correctly entered in the web browser.
- Use another web browser and try again.
- Reboot your router and try again.
- Disable and enable the network adapter in use again.

Q2. What should I do if I cannot access the internet?

- Check if the internet is working properly by connecting a computer directly to the modem via an Ethernet cable. If it is not, contact your internet service provider
- Reboot your router and try again.
- Open a web browser, enter <http://mwlogin.net> and run the Quick Setup again.
- For cable modem users, reboot the modem first. If the problem persists, log in to the web management page of the router to clone MAC address.

Q3. How do I restore my router's configuration to its factory default settings?

There are two ways to reset the router.

Method one: With the router powered on, press and hold the **WPS/RESET** button for at least 5 seconds, then release the button and wait the router to reboot to its factory default settings.

Method two: Visit <http://mwlogin.net>, go to **Advanced** → **System Tools** → **Backup & Restore** → **Factory Default Restore** to restore the router to its default settings.

NOTE:

Once the modem router is reset, the current configuration settings will be lost and you will need to re-configure the router.

Q4. What should I do if I forget my web management password?

Refer to Q3 to restore the router to its factory default settings and then create a new password when prompted.

Q5. What should I do if I forget my wireless password?

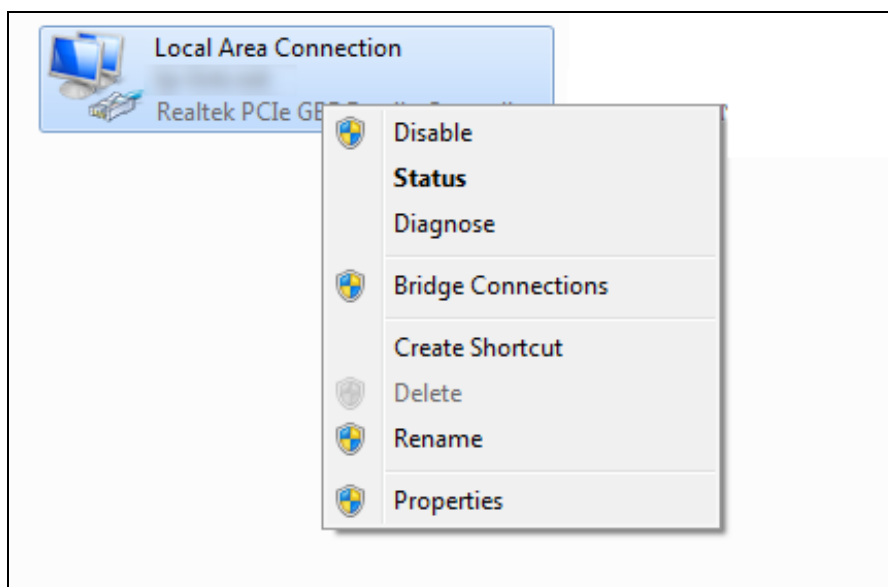
- By default, the wireless network has no password.
- If you have set password for the network:
 - 1) Connect your computer to the router using an Ethernet cable.
 - 2) Visit <http://mwlogin.net>, and log in with the password you set for the router.
 - 3) Go to **Basic**→**Wireless** to retrieve or reset your wireless password.

Appendix B: Configuring the PC

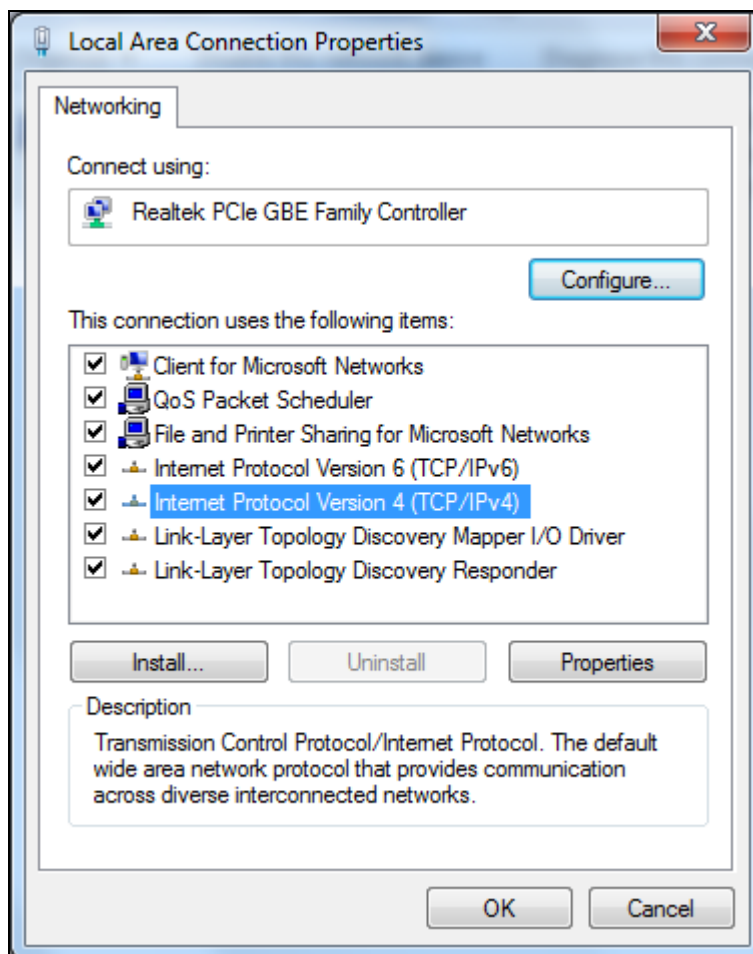
In this section, we'll introduce how to install and configure the TCP/IP correctly in Windows 7. First make sure your Ethernet Adapter is working, refer to the adapter's manual if needed.

1. Install TCP/IP component

- 1) On the Windows taskbar, click **Start** button, and then click **Control Panel**.
- 2) Click the **Network and Internet**, and click the **Network and Sharing Center**, then click **Change adapter settings**.
- 3) Right click the icon that showed below, select **Properties** on the prompt page.



- 4) In the prompt page that showed below, double click on the **Internet Protocol Version 4 (TCP/IPv4)**.

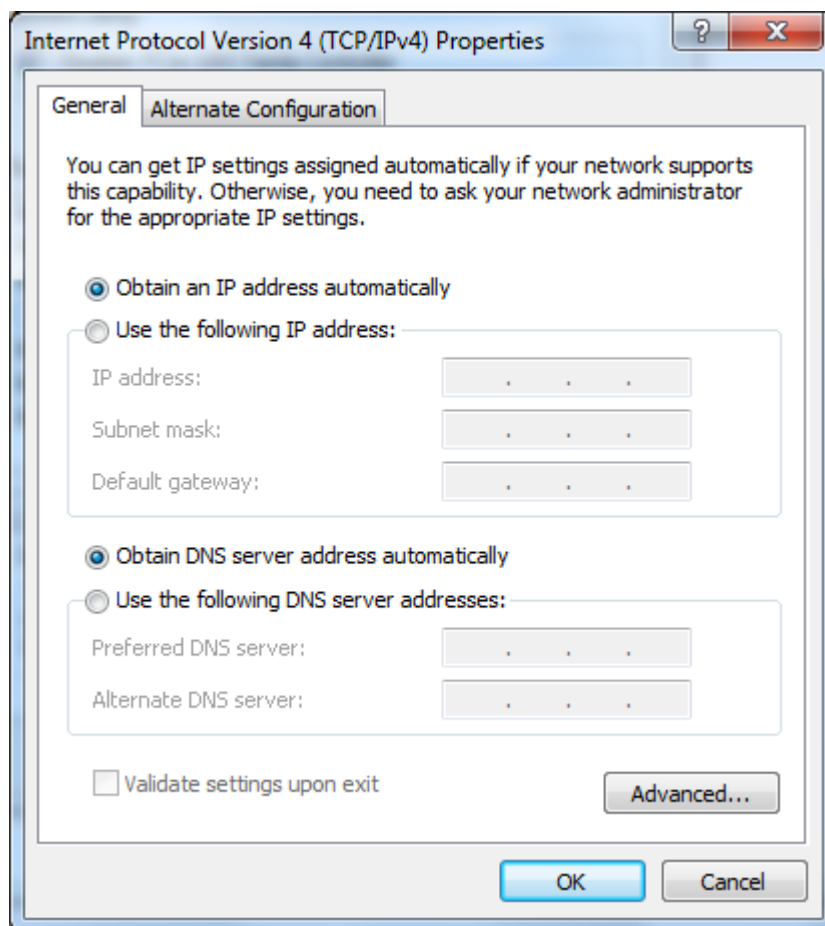
MW330HP 300Mbps High Power Wireless N Router

- 5) The following **TCP/IP Properties** window will display and the **IP Address** tab is open on this window by default.

Now you have two ways to configure the **TCP/IP** protocol below:

- **Setting IP address automatically**

Select **Obtain an IP address automatically**, Choose **Obtain DNS server automatically**, as shown in the Figure below:

MW330HP 300Mbps High Power Wireless N Router

- **Setting IP address manually**

- 1 Select **Use the following IP address** radio button. And the following items available
- 2 If the router's LAN IP address is 192.168.1.1, specify the IP address as 192.168.1.x (x is from 2 to 254), and **Subnet mask** is 255.255.255.0.
- 3 Enter the router's LAN IP address (the default IP is 192.168.1.1) in the **Default gateway** field.
- 4 Select **Use the following DNS server addresses** radio button. In the **Preferred DNS Server** field you can type the DNS server IP address, which has been provided by your ISP

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