

802.11n Wireless Router

R0300/WR366E

V1.0

User Manual

Chapter 1. Introduction

Thank you for choosing the Wireless Router. This router provides dedicated solution for Small Office/Home Office (SOHO) networks. your local wired or wireless network can share Internet access, files and fun for multiple PCs through one ISP account. It is an easy Web-based setup for installation and management. Even though you may not be familiar with the router, this guide will make configuring the router easy. Before installing the router, please look through this guide to know all the router's functions.

1.1 Product Features

- ◆ Includes Wireless AP, Router, 4-Port Switch, and Firewall in one
- ◆ Supports WPS (Wi-Fi Protected Setup) encryption method
- ◆ Complies with IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, IEEE 802.3 and IEEE 802.3u standards
- ◆ Supports 64/128-bit WEP, WPA, WPA2, WPA&WPA2 encryption methods
- ◆ Provides one 10/100Mbps Auto-Negotiation Ethernet WAN port
- ◆ Provides four 10/100Mbps Auto-Negotiation Ethernet LAN ports
- ◆ Supports xDSL/Cable MODEM, static and dynamic IP in community networking
- ◆ Supports Auto MDI/MDIX
- ◆ Supports LAN access control over Internet connection
- ◆ Supports WDS wireless network extension

1.2 Package contents

The following contents should be found in your box:

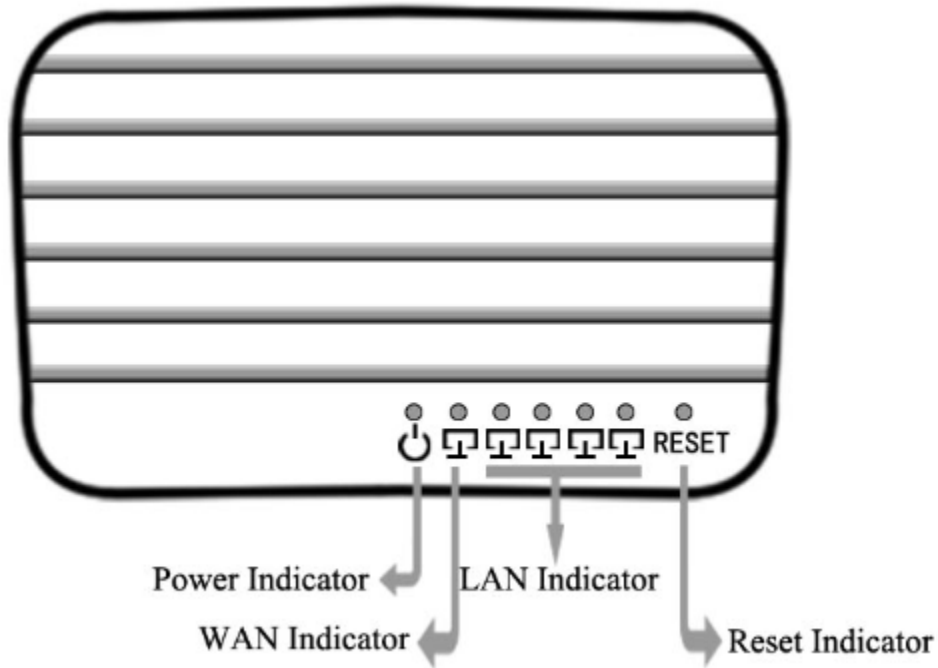
One Wireless Router

One power adapter for Wireless Router

Quick Installation Guide

Note: If any of the listed contents are damaged or missing, please contact the retailer from whom you purchased the product for assistance.

1.3 Led Indicator and port description

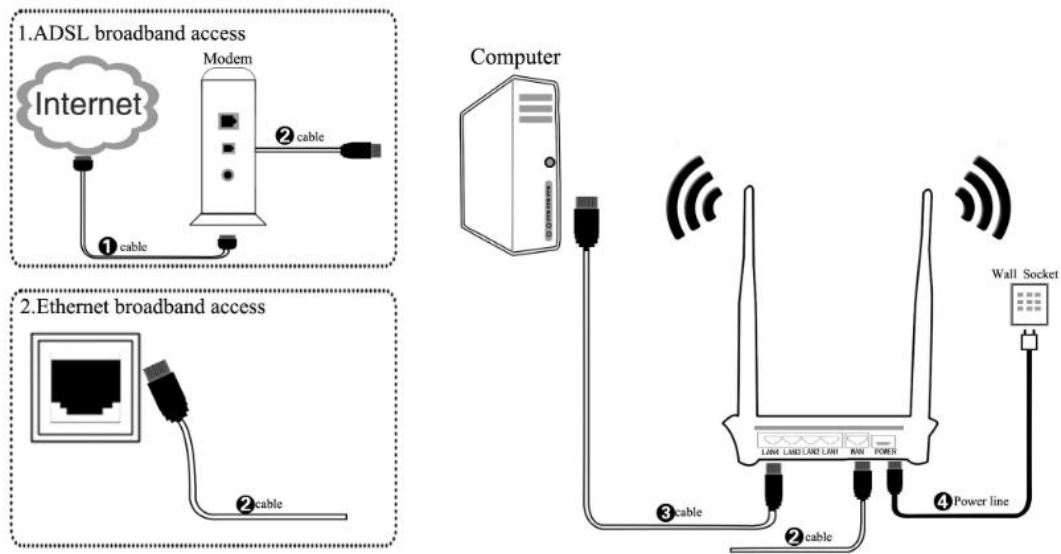


The LED indicators displayed on the front panel, the status of these LED indicators represent the device's working circs. For details, please refer to below:

Name	Status	Description
Power	off	No Power
	on	Power on
WAN/ LAN(1-4)	off	There is no device linked to the corresponding port
	on	Connected to a device through the corresponding port
	Flash	Sending or receiving data over corresponding port

Chapter 2. Installation Preparation

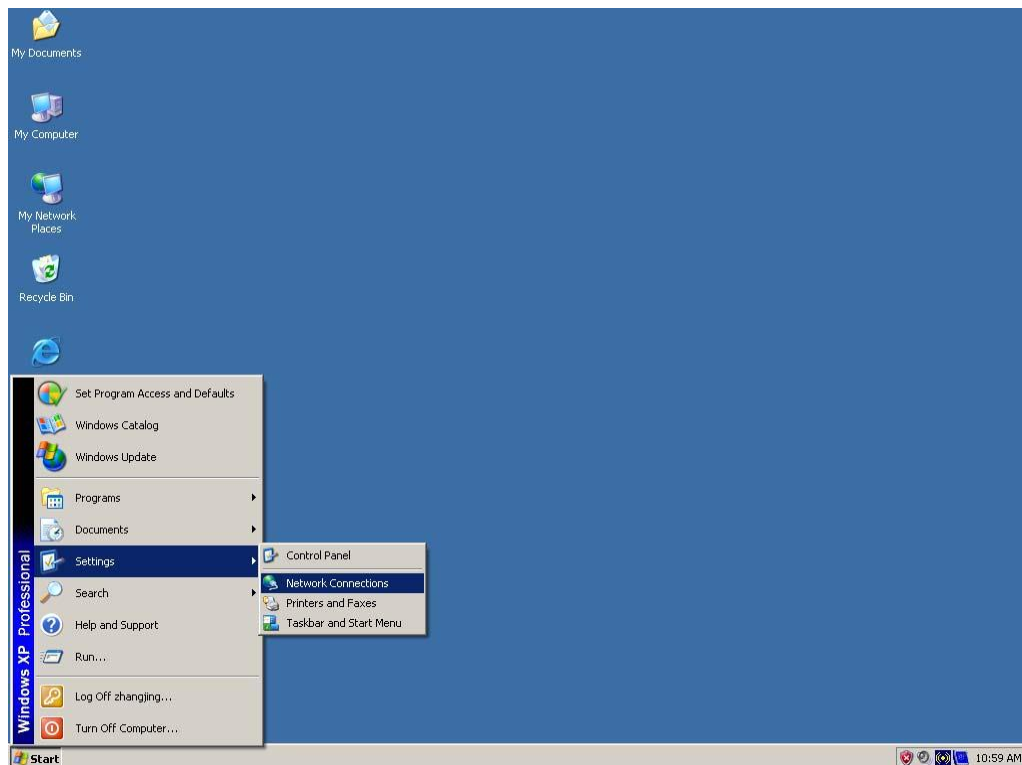
2.1 Connecting the Router



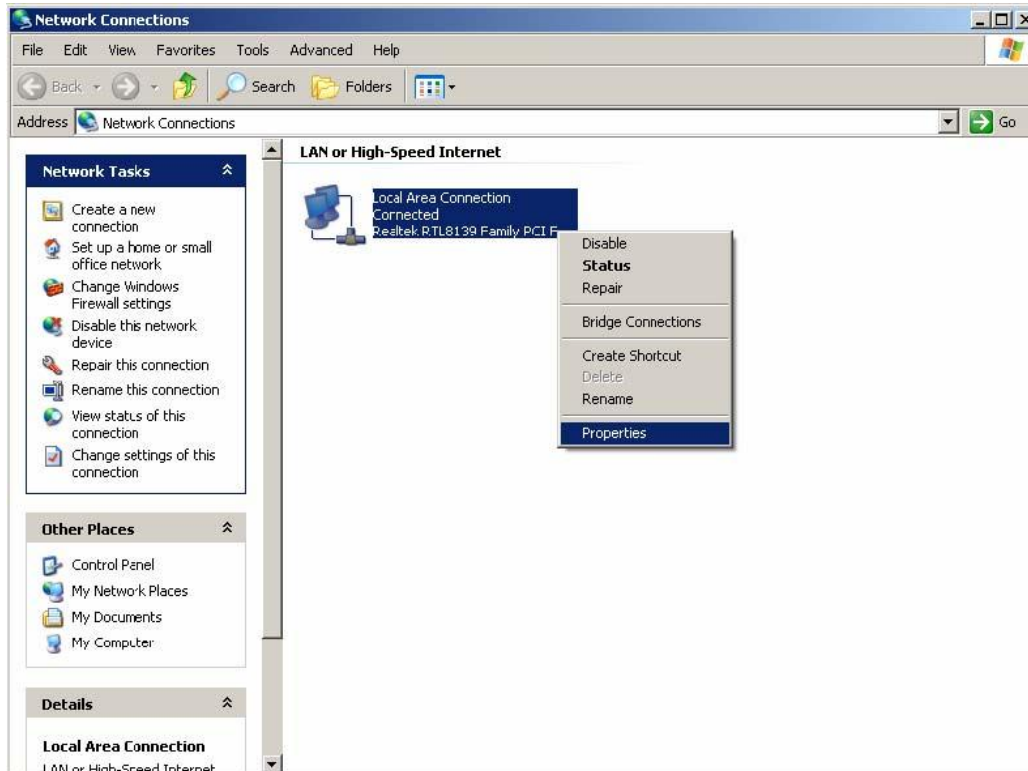
2.2 Configure Computer

Follow the instructions below to configure a computer running Windows XP:

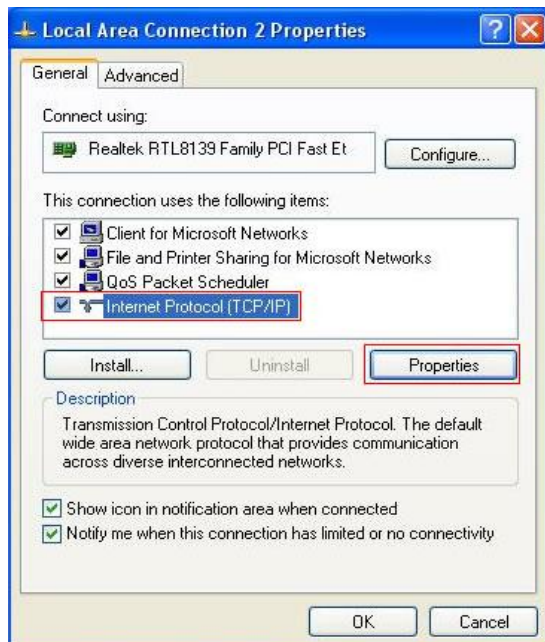
2.2.1 From the **Start** menu on your desktop, go to **Settings**, and then click on Network Connections.



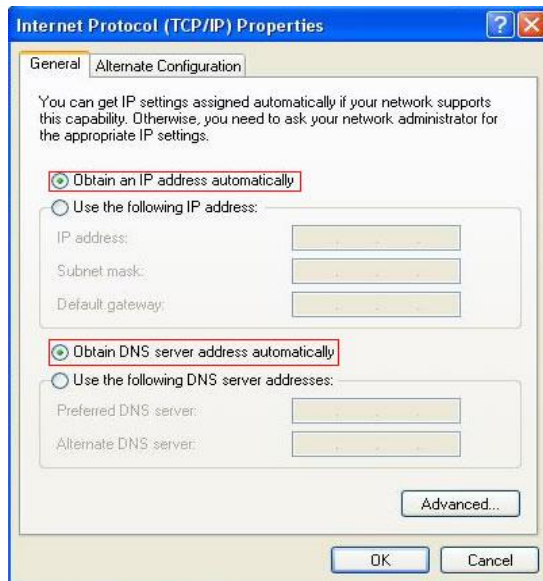
2.2.2 In the **Network Connections** window, right-click on **Local Area Connection**, then click **Properties**.



2.2.3 In the **General** tab of **Local Area Connection Properties**, Click **Internet Protocol (TCP/IP)** under “This connection uses the following items:”. Then click on the **Properties** button.



2.2.4 Select “**Obtain an IP address automatically**” and the “**Obtain DNS server address automatically**” by clicking the radio-button. Click **OK** .



Chapter 3. Installation Guide

This User Guide recommends using the “Quick Installation Guide” for first-time installation, For advanced users, if you want to know more about this device and make use of its functions adequately, you need to read this chapter and configure advanced settings through the Web-based Utility.

3.1 Login the Router

Input the website <http://192.168.1.1> in Internet explorer address column, User should see the login page, input the user name and password (default user name and password is “**admin**”),login windows as below:



click “**ok**” button enter the main page

After your successful login, you can configure and manage the device. There are main menus on the left of the web-based utility. Submenus will be available after you click one of the main menus. On the right of the web-based utility, there are the detailed explanations and instructions for the corresponding page. To apply any settings you have altered on the page, please click the **Apply changes** button.

3.2 Quick Installation Guide

Click "**Router Setting**" menu then show quick Installation window:

802.11bgn Wireless Router

Router Settings
Advanced Settings

Modify work mode,WAN access type,SSID,wireless password at this page.

AP/Router: In this mode, the device is supposed to connect to internet via ADSL/Cable Modem or other ethernet network. The NAT is enabled and PCs as wireless client share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPOE, DHCP client, static IP.

Repeater: In this mode, ethernet ports and wlan are bridged together and the wireless client will connect to ISP access point. The NAT is enabled and PCs in ethernet port or other wireless client share the same IP to ISP through wireless LAN. You must connect to the ISP AP in Repeater scan page. The connection type can be setup in WAN page by using PPPOE, DHCP client, static IP.

WAN Access Type: ← select the wan type

Network name(SSID): ← input the wireless name

Encryption: ← select the encryption

Wireless Password: ← input the wireless password
(Above 8 characters)

WAN Access Type: you can select **Static IP**, **DHCP**, **PPPoE**;

Encryption: you can select **WPA Mixed** and **None**;

3.3 Advanced setup

3.3.1 Operation Mode

802.11bgn Wireless Router

Operation Mode

You can setup different modes to LAN and WLAN interface for NAT and bridging function.

- Router:** In this mode, the device is supposed to connect to internet via ADSL/Cable Modem or other ethernet network. The NAT is enabled and PCs as wireless client share the same IP to ISP through WAN port. The connection type can be setup in WAN page by using PPPOE, DHCP client, static IP.
- Bridge:** In this mode, all ethernet ports and wireless interface are bridged together and NAT function is disabled. All the WAN related function and firewall are not supported.
- Repeater:** In this mode, ethernet ports and wlan are bridged together and the wireless client will connect to ISP access point. The NAT is enabled and PCs in ethernet port or other wireless client share the same IP to ISP through wireless LAN. You must connect to the ISP AP in Repeater scan page. The connection type can be setup in WAN page by using PPPOE, DHCP client, static IP.

3.3.2 Wireless Settings

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Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point.

Disable Wireless LAN Interface

Band: 2.4 GHz (B+G+N)

Mode: AP

Network Type: Infrastructure

SSID: WIRELESS

Channel Width: 40MHz

Control Sideband: Upper

Channel Number: 11

Broadcast SSID: Enabled

Associated Clients:

Enable Mac Clone (Single Ethernet Client)

Enable Universal Repeater Mode (Acting as AP and client simultaneously)

SSID of Extended Interface: WIRELESS RPT0

Disable wireless LAN Interface : Close wireless function .

Band : you can select as below:

2.4G Hz(B):11b mode, rate is 11 Mbps

2.4G Hz (G):11g mode, rate is 54 Mbps

2.4G Hz(N):11n mode, rate is 150 Mbps(1T1R)300 Mbps(2T2R)

2.4G Hz (B+G):11b/g mode, rate is 11 Mbps and 54 Mbps

2.4G Hz(G+N):11g/n mode, rate is 54 Mbps,150 Mbps /300 Mbps

2.4G Hz(B+G+N):11b/g/n mode, rate is 11 Mbps,54 Mbps,150 Mbps
/300 Mbps

Mode: Can select one of **AP, CLIENT, WDS, AP+WDS**

Network Type : default is **infrastructure**, when Mode is Client , you also can set it to **Ad-hoc**.

SSID: Wireless LAN status authentication name ,User can access the wireless networking through status authentication name only .

Channel Width: you can select **20MHz** and **40MHz**.

Channel Sideband: you can select **Upper** or **Lower**. default is **Upper** .

Channel Number : the current channel router used.

Broadcast SSID: you can select **Disable** or **Enable**. default is **Enable**.

Associated clients : Click "**Show Active Clients**" button ,it will show " Active Wireless Client Table" , You can see the client's status .

Enable Mac Clone (Single Ethernet Client): Enable Mac Clone.

Enable Universal Repeater Mode (Acting as AP and client simultaneously): Enable Universal Repeater Mode.

SSID of Extended Interface: Only when the Enable Universal Repeater Mode is available.

3.3.3 Security Settings

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

802.11bgn Wireless Router

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption

Encryption: WPA-Mixed
Key format: Character
password:

Apply Change Reset

Encryption: Support None ,WEP ,WPA2 ,WPA2 Mixed.

Key Format: Support Passphrase ,Hex (64 characters)

password : input 8~128 characters password.

3.3.4 LAN Settings

This page is used to configure the parameters for local area network which connects to the LAN port of your Router. Here you may change the setting for IP address, subnet mask, DHCP, etc..

802.11bgn Wireless Router

LAN Interface Setup

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point.

IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0
Default Gateway: 0.0.0.0
DHCP: Server
DHCP Client Range: 192.168.1.100 - 192.168.1.200 Show Client
DHCP Lease Time: 480 (1 ~ 10080 minutes)
Static DHCP: Set Static DHCP
Domain Name: Realtek
802.1d Spanning Tree: Disabled
Clone MAC Address: 000000000000

Apply Changes Reset

IP Address: the router's LAN IP address , default is **192.168.1.1**,you can according request to change it .

Subnet Mask: the router's LAN subnet mask, default is **255.255.255.0**

Default Gateway: the router's default is **0.0.0.0**, you can according request to change it.

DHCP: you can select one of **Server, Disable, Client**. Default is **Server**. that the DHCP Server can configure the TCP/IP protocol of your LAN computer automatically. For the **Server** mode, it must fill in the DHCP client address range.

DHCP Client Range: default is **192.168.1.100-192.168.1.200**. Click to **show client** button to display the DHCP client information.

Domain Name: default is **Realtek**.

802.1d spanning tree: you can select **Disable** or **Enable**. default is **Disable**.

Clone MAC Address: you can input a MAC address for use clone function.

3.3.5 WAN Settings

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. Here you may change the access method to **Static IP, DHCP, PPPoE** by click the item value of WAN Access type.

A. Static IP

If your access type is **Static IP**, It means you have static IP address ISP supply, so you need to fill in follow details:

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This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. WAN Access type.

WAN Access Type:

IP Address:

Subnet Mask:

Default Gateway:

MTU Size: (1400-1500 bytes)

DNS 1:

DNS 2:

DNS 3:

Clone MAC Address:

Enable uPNP

Enable IGMP Proxy

Enable Ping Access on WAN

Enable Web Server Access on WAN

Enable IPsec pass through on VPN connection

Enable PPTP pass through on VPN connection

Enable L2TP pass through on VPN connection

Enable IPv6 pass through on VPN connection

IP address: The router's WAN IP address that the ISP supply, If you not sure can check with ISP.

Subnet Mask: The router's subnet mask that the ISP supply, normally it is 255.255.255.0.

Default Gateway: Fill in yours gateway that the ISP supply, if you not sure can check with ISP.

B. DHCP Client

If your access type is **DHCP Client**, then you can get the IP address from the ISP. it means you only need connect the ISP line with internet to the router's WAN port. You do not need to enter the information like other modes.

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Router Settings

- Router Settings
- Advanced Settings
- Operation Mode
- Wireless Settings
- Security Settings
- LAN Settings
- WAN Settings
- Port Filtering
- MAC Control
- Web Filtering
- DMZ Host
- Site Survey
- QoS Settings
- Port Forwarding
- WDS settings
- Upgrade Firmware
- Save/Load Setting
- Password
- Device Status

WAN Interface Setup

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point.
Access type.

WAN Access Type:

MTU Size: (1400-1500 bytes)

Attain DNS Automatically
 Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

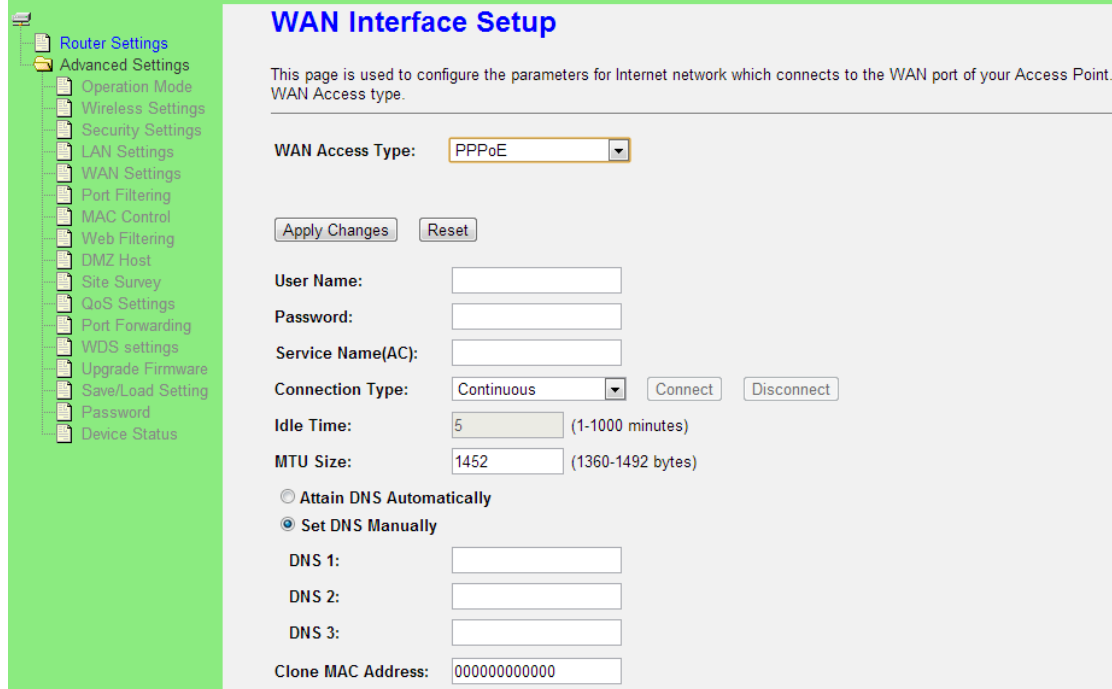
Clone MAC Address:

Enable uPNP
 Enable IGMP Proxy
 Enable Ping Access on WAN
 Enable Web Server Access on WAN
 Enable IPsec pass through on VPN connection
 Enable PPTP pass through on VPN connection
 Enable L2TP pass through on VPN connection
 Enable IPv6 pass through on VPN connection

C. PPPoE

If your access type is **PPPoE**, with ADSL virtual dialing, you need to fill in following details:

802.11bgn Wireless Router



WAN Interface Setup

This page is used to configure the parameters for Internet network which connects to the WAN port of your Access Point. WAN Access type.

WAN Access Type:

User Name:

Password:

Service Name(AC):

Connection Type:

Idle Time: (1-1000 minutes)

MTU Size: (1360-1492 bytes)

Attain DNS Automatically

Set DNS Manually

DNS 1:

DNS 2:

DNS 3:

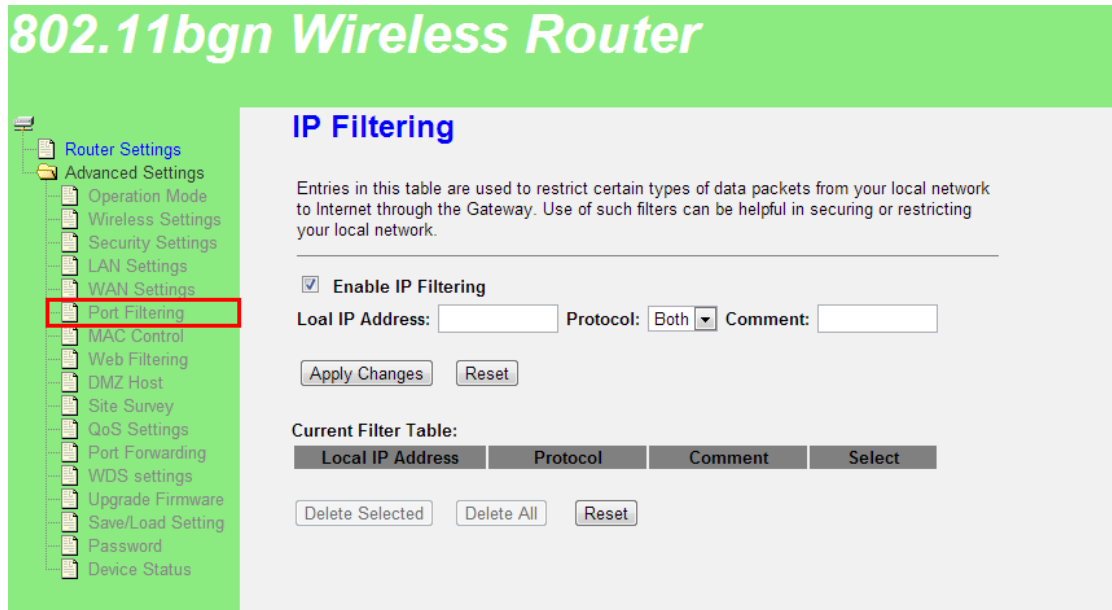
Clone MAC Address:

User Name: Fill in ADSL access user name which supply by ISP, if you not sure can check with ISP.

password: Fill in ADSL access password which supply by ISP, if you not sure can check with ISP.

3.3.6 Port Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such IP filters can be helpful in securing or restricting your local network.



IP Filtering

Entries in this table are used to restrict certain types of data packets from your local network to Internet through the Gateway. Use of such filters can be helpful in securing or restricting your local network.

Enable IP Filtering

Loal IP Address: Protocol: Comment:

Current Filter Table:

Local IP Address	Protocol	Comment	Select
------------------	----------	---------	--------

Enable IP Filtering :Open IP address filtering function.

Local IP Address : Input filtering IP address , as 192.168.1.12 .

Protocol : select the protocol type for the controlled data.

Current Filter Table : display current IP filtering table .

3.3.7 MAC Control

If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list will be able to connect to your Access Point. When 'Deny Listed' is selected, these wireless clients on the list will not be able to connect the Access Point. Default is **disable**.

The screenshot shows the configuration interface for a wireless router. The title is "802.11bgn Wireless Router". On the left is a navigation menu with "MAC Control" highlighted in a red box. The main content area is titled "Wireless Access Control" and contains the following elements:

- A warning message: "If you choose 'Allowed Listed', only those clients whose wireless MAC addresses are in the access control list not be able to connect the Access Point."
- A dropdown menu for "Wireless Access Control Mode" set to "Allow Listed".
- Input fields for "MAC Address" and "Comment".
- "Apply Changes" and "Reset" buttons.
- A section titled "Current Access Control List" with a table header:

MAC Address	Comment	Select
-------------	---------	--------
- "Delete Selected", "Delete All", and "Reset" buttons at the bottom.

3.3.8 Web Filtering

Web filter is used to deny LAN users from accessing the internet. Block those URLs which contain keywords listed below.

802.11bgn Wireless Router

URL Filtering

URL filter is used to deny LAN users from accessing the internet. Block those URLs which contain keywords listed below.

Enable URL Filtering

deny url address(black list)

allow url address(white list)

URL Address:

Current Filter Table:

URL Address	Select
-------------	--------

Enable URL Filtering : Open URL filtering function .

URL Address : Input the filtering URL address.

Current Filter Table :display current URL filtering table .

3.3.9 DMZ Host

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

802.11bgn Wireless Router

DMZ

A Demilitarized Zone is used to provide Internet services without sacrificing unauthorized access to its local private network. Typically, the DMZ host contains devices accessible to Internet traffic, such as Web (HTTP) servers, FTP servers, SMTP (e-mail) servers and DNS servers.

Enable DMZ

DMZ Host IP Address:

Enable DMZ: Open DMZ function .

DMZ Host IP Address : Input DMZ host IP address.

3.3.10 Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled..

802.11bgn Wireless Router

Router Settings

- Advanced Settings
 - Operation Mode
 - Wireless Settings
 - Security Settings
 - LAN Settings
 - WAN Settings
 - Port Filtering
 - MAC Control
 - Web Filtering
 - DMZ Host
 - Site Survey**
 - QoS Settings
 - Port Forwarding
 - WDS settings
 - Upgrade Firmware
 - Save/Load Setting
 - Password
 - Device Status

Repeater mode please folow beblow

- 1.Click "Site Survey",search circum wireless signal;
- 2.Select the wireless signal you want,then click "Next";
- 3.If it is necessary,please input corrected password first then click "Connect" .

Site Survey

Root AP	MAC address	Channel	Type	Encrypt	Signal
None					

3.3.11 QoS Settings

Entries in this table improve your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web.

802.11bgn Wireless Router

Router Settings

- Advanced Settings
 - Operation Mode
 - Wireless Settings
 - Security Settings
 - LAN Settings
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 - MAC Control
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 - Device Status

Entries in this table improve your online gaming experience by ensuring that your game traffic is prioritized over other network traffic, such as FTP or Web.

Enable QoS

Automatic Uplink Speed

Manual Uplink Speed (Kbps):

Automatic Downlink Speed

Manual Downlink Speed (Kbps):

QoS Rule Setting:

Address Type: IP MAC

Local IP Address: -

MAC Address:

Mode:

Uplink Bandwidth (Kbps):

Downlink Bandwidth (Kbps):

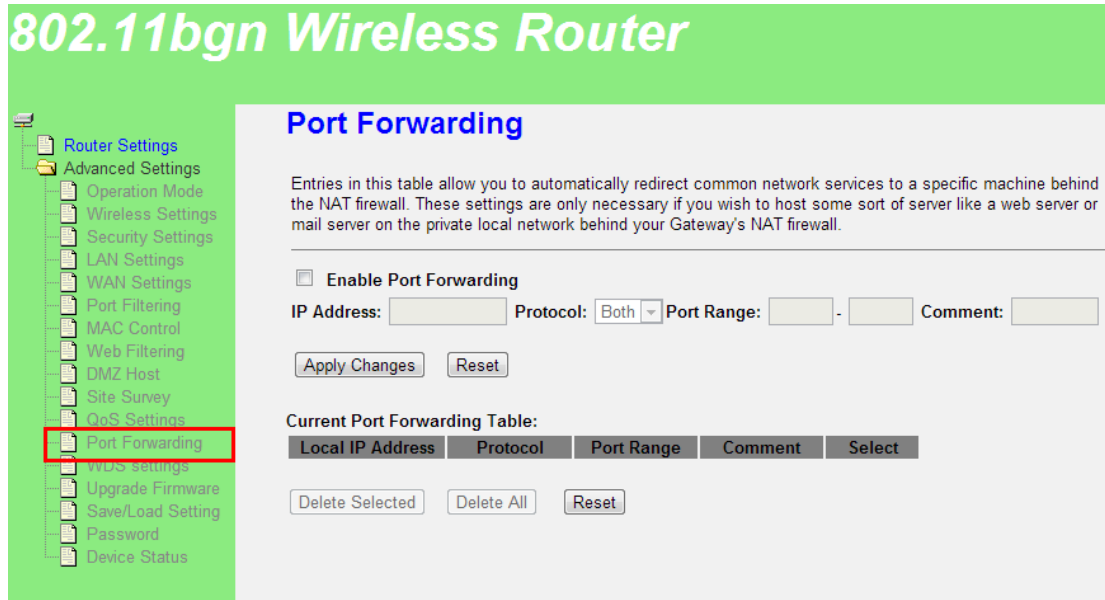
Comment:

Current QoS Rules Table:

Local IP Address	MAC Address	Mode	Uplink Bandwidth	Downlink Bandwidth	Comment	Select
------------------	-------------	------	------------------	--------------------	---------	--------

3.3.12 Port Forwarding

Entries in this table allow you to automatically redirect common network services to a specific machine behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the private local network behind your Gateway's NAT firewall.



Enable Port Forwarding: open port forwarding function

IP Address: Local IP Address

Port Range: input forwarding port range ,as 22-120 .

Protocol : select the protocol type for the controlled data.

Current Port Forwarding Table :display current port forwarding table .

3.3.13 WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

802.11bgn Wireless Router

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, communicate with in the table and then enable the WDS.

Enable WDS

MAC Address:

Data Rate:

Comment:

Current WDS AP List:

MAC Address	Tx Rate (Mbps)	Comment	Select
-------------	----------------	---------	--------

At "Wireless" -> "Basic settings" page, Set Mode to WDS or AP+WDS type, and Enable WDS at WDS Settings page, fill in the WDS AP's MAC address, Click "Apply Changes" button to finish setting.

3.3.14 Upgrade Firmware

This page allows you upgrade the Router firmware to new version. Please note, do not power off the device during the upload because it may crash the system.

Upgrade Firmware

This page allows you upgrade the Access Point firmware to new version.

Firmware Version: v3.4.6.4

Select File: 未选择文件

3.3.15 Save/Reload Settings

This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default(click **Reset** button).



3.3.16 Password

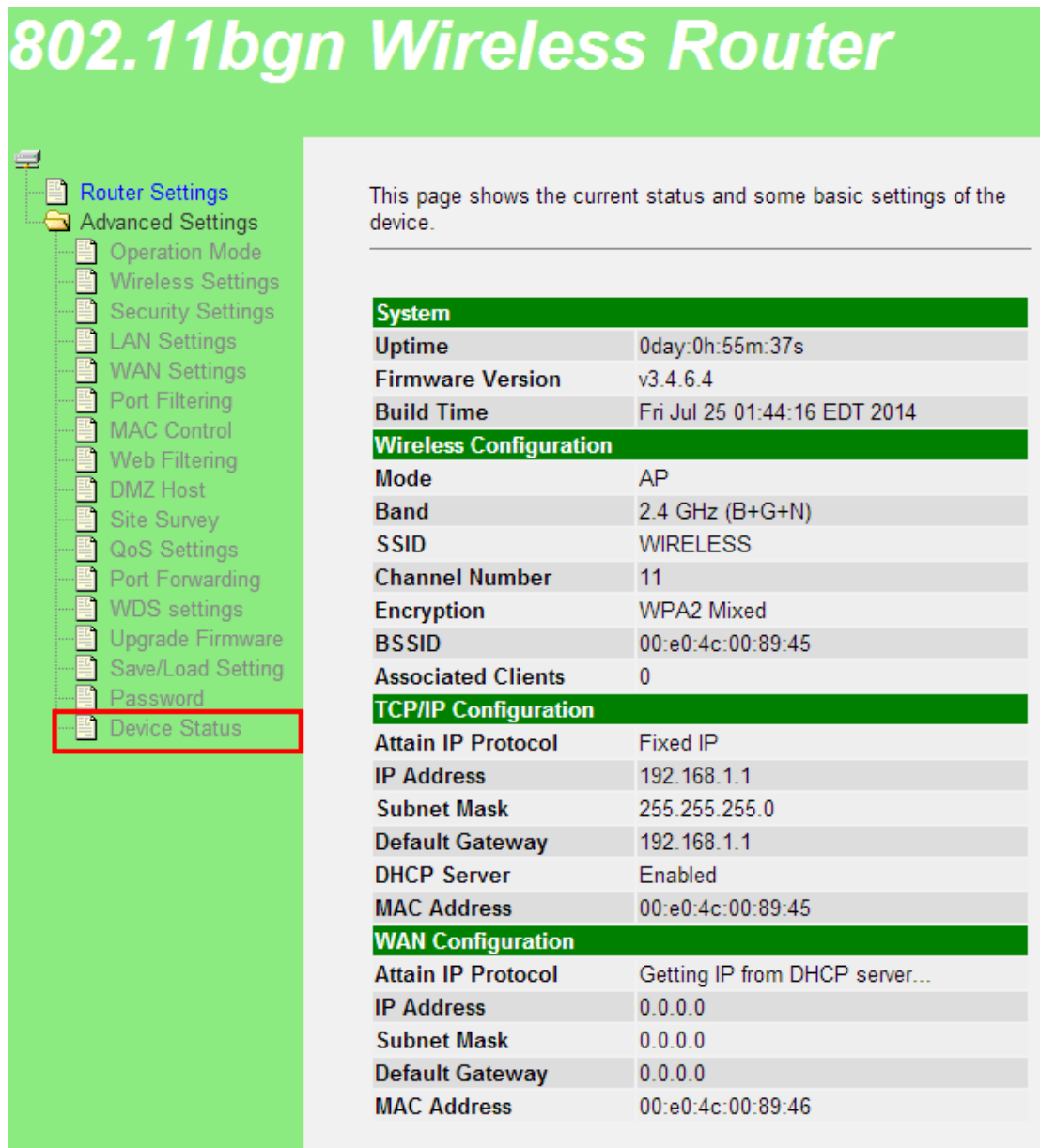
This page is used to set the account to access the web server of Router. Empty user name and password will disable the protection.



3.3.17 Device Status

This page shows the current status and some basic settings of the device.

802.11bgn Wireless Router



The screenshot displays the configuration interface for an 802.11bgn Wireless Router. On the left is a navigation menu with 'Device Status' highlighted in a red box. The main content area shows a status overview and three configuration tables: System, Wireless Configuration, TCP/IP Configuration, and WAN Configuration.

This page shows the current status and some basic settings of the device.

System	
Uptime	0day:0h:55m:37s
Firmware Version	v3.4.6.4
Build Time	Fri Jul 25 01:44:16 EDT 2014

Wireless Configuration	
Mode	AP
Band	2.4 GHz (B+G+N)
SSID	WIRELESS
Channel Number	11
Encryption	WPA2 Mixed
BSSID	00:e0:4c:00:89:45
Associated Clients	0

TCP/IP Configuration	
Attain IP Protocol	Fixed IP
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DHCP Server	Enabled
MAC Address	00:e0:4c:00:89:45

WAN Configuration	
Attain IP Protocol	Getting IP from DHCP server...
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
MAC Address	00:e0:4c:00:89:46

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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 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.

RF Exposure Warning Statements:

The distance between user and products should be no less than 20cm during normal operations.