

# **AC750 Wireless Dual-Band Router**

**CR2**

**User Manual**

**Version 1.0 | 4/25/2014**

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# Chapter 1 Introduction

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Congratulations on your purchase of this outstanding AC750 Wireless Dual-Band Router. The Wireless Router using 2.4G and 5G dual-band concurrent technology, support latest 802.11ac standards, backward compatibility IEEE802.11a/b/g/n, 2.4GHz and 5GHz wireless transmission rate up to 750Mbps when concurrent operation, Integrated router, Wi-Fi access point, 4 ports 100M switch and firewall functions in one. Provide convenient and comprehensive network management functions, supports URL filtering, MAC address filtering and the QoS bandwidth control function, can effectively allocate the client's download rate. Supports wireless data encryption, and can guarantee the security of data transmission in wireless network.

## 1.1 Features

- Provides a 10/100M WAN interface, can be connected to xDSL modem, Cable modem and Ethernet.
- Provides four 10/100M LAN interfaces, can be connected to various Ethernet devices.
- 2.4G and 5G concurrent working wireless transmission rate up to 750Mbps.
- Supports the WPS one key encryption, easy to implementing network encrypted connection.
- Supports 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, etc. encryption and security mechanism.
- Built-in Network Address Translation (NAT) supports virtual server, special application and DMZ host.
- Built-in DHCP server, and also supports static address allocation.
- Supports the VPN pass - through, can build a VPN client.
- Built-in firewall functions, supports domain and MAC address filtering.
- Supports QoS bandwidth control function, can effectively allocate the client's download rate.
- Supports for dynamic DNS function, can provide domain name service for dynamic IP address.
- Supports access control based on MAC address, can effectively to control the Intranet user Internet access permissions.
- Supports remote Web management and software upgrades.

## 1.2 System Requirement

- An Ethernet-Based Cable or xDSL modem
- An Ethernet Card on PC
- TCP/IP network protocol for each PC
- RJ45 Twisted-pair

- Microsoft IE (or Firefox or Netscape)

## **1.3 Package Contents**

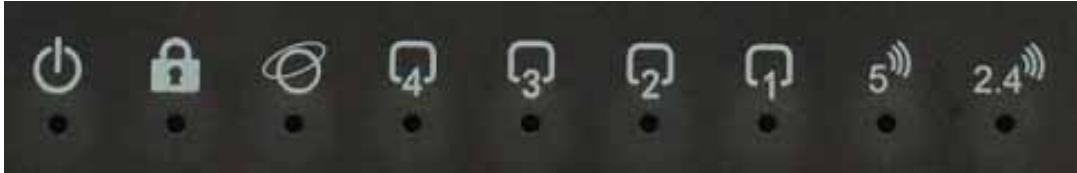
Please unpack the box and check the following items:







- One AC750 Wireless Dual-Band Router
- One Power Adapter
- One User Manual

## Chapter 2 Hardware Installation

### 2.1 Led indicators

The top panel contains LED indicators that show the status of the unit.



Name	Status	Indication
 Power	Off	Power is off.
	On	Power is on.
 SYS/WPS	Flashing	the LED flashes about two minutes during WPS working.
 WAN	Off	There is no device linked to the corresponding port.
	On	There is a device linked to the corresponding port but there is no activity.
 LAN(1-4)	Flashing	There is an active device linked to the corresponding port.
 5GHz	Off	The wireless function is disabled.
	Flashing	The wireless function is enabled. The router is working on 5GHz radio band.
 2.4GHz	Off	The wireless function is disabled.
	Flashing	The wireless function is enabled. The router is working on 2.4GHz radio band.

### 2.2 Back Rear Panel



The following parts are located on the rear panel.

**LAN (1,2,3,4):** These four LAN ports are where you will connect networked devices, such as PCs, print servers, remote hard drives, and anything else you want to put on your network. If you connect this product with the Hub (or Switchboard) correctly, the router's corresponding LED and the Hub's (or the Switchboard's) must be illuminated.

**WAN:** 10/100Mbps RJ45 port. The WAN port is where you will connect Cable/xDSL Modem or other LAN.

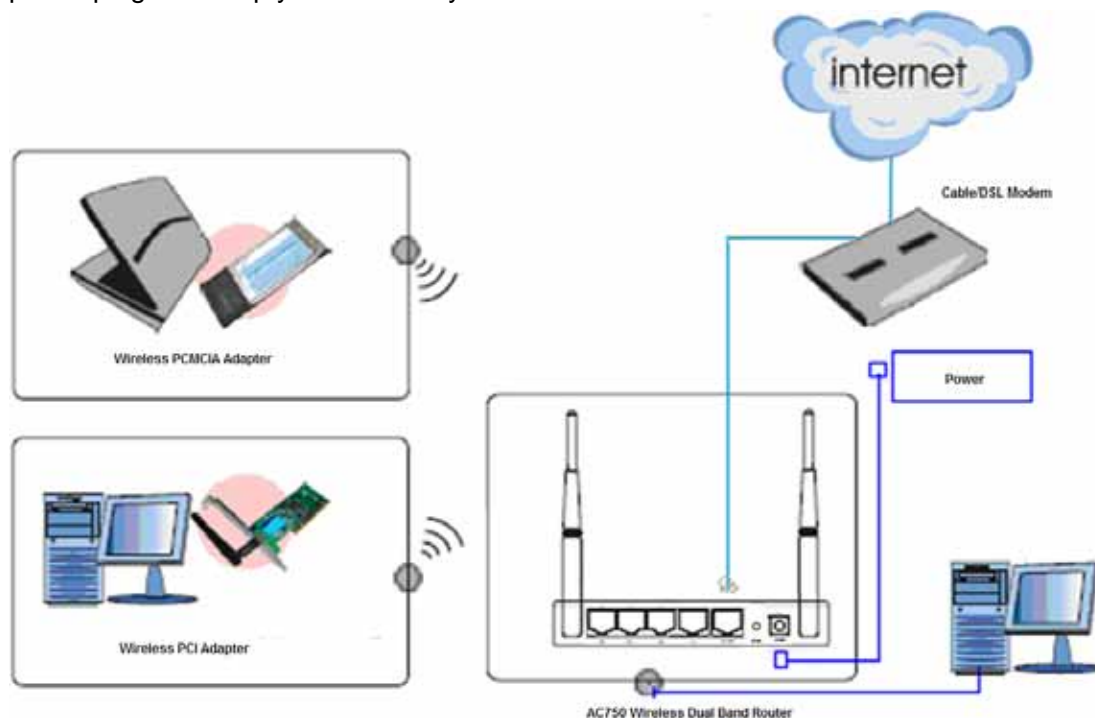
**RESET:** The Reset Button has two functions, WPS and Factory Default. With the router powered on, When selecting the WPS function, use a pin to press and hold the button about 2 seconds, the WPS LED will flash two minutes. The other one, use a pin to press and hold the button about 5 seconds, the router will restore to factory default.

**POWER:** The Power socket is where you will connect the power adapter. Please use the power adapter provided with this router.

**Wireless antenna:** To receive and transmit the wireless data.

## 2.3 Typical install

Before installing the router, make sure your PC is connected to the Internet through the broadband service successfully. If there is any problem, please contact your ISP. After that, please install the router according to the following steps. Don't forget to pull out the power plug and keep your hands dry.



1. Make sure all devices, including your PCs, modem, and router, are powered down.
2. Using an Ethernet network cable, connect the LAN or Ethernet network port of the cable or DSL modem to the router's WAN port.
3. Power on the cable or DSL modem, and power on the PC you wish to use to configure the router.



4. Connect the included power adapter to the router. And connect the other end of the adapter to an electrical outlet.

## Chapter 3 Quick Installation Guide

The chapter mainly presents how to enter the router's Web page and simple router settings. After you have finished the hardware installation (Please refer to chapter 2), the following steps will assist you to set the network configurations for you computer.

### 3.1 Set the Network Configurations

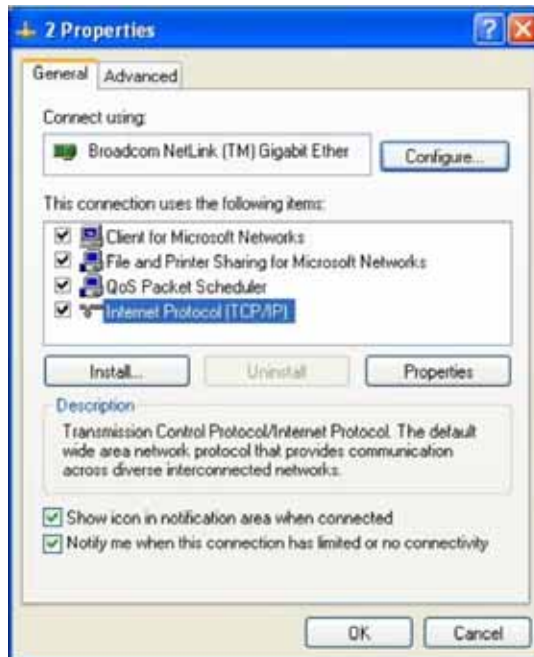
1. On your computer desktop right click "**My Network Places**" and select "**Properties**".



2. Right click "**Local Area Network Connection**" and select "**Properties**".



3. Select "**Internet Protocol (TCP/IP)**" and click "**Properties**".



4. Select "**Obtain an IP address automatically**" or select "**Use the following IP address(S)**".
  - A. Select "**Obtain an IP address automatically**" and "**Obtain DNS server address automatically**". Click "**OK**".



**B. "Use the following IP address (S)"**

**IP Address:** 192.168.1.XXX: ( XXX is a number from 2~254)

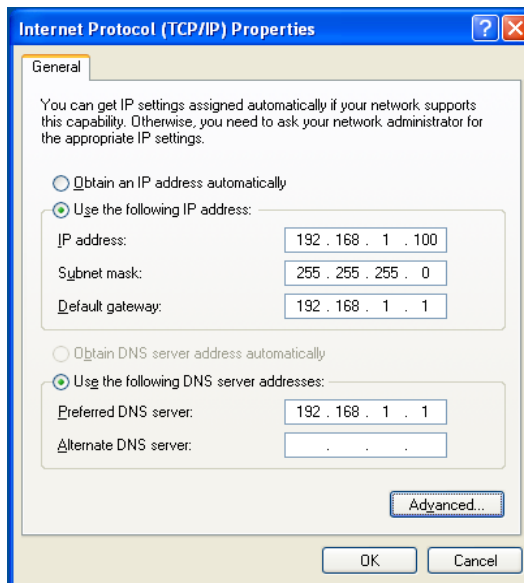
**Subnet Mask:** 255.255.255.0

**Gateway:** 192.168.1.1

**DNS Server:** You need to input the DNS server address provided by you ISP. Otherwise, you can use the router's default gateway as the DNS proxy server.

**Tip:** If you are not sure of the DNS server address, we recommend you to select "Obtain an IP address automatically (O)" and "Obtain a DNS server address

automatically".



Click "OK" to save the configurations.

## 3.2 Getting Started



To access the configuration pages, open a web-browser such as Internet Explorer and enter the IP address of the router (**192.168.1.1**).

The Default User/Password: **admin**

If successful, you can see the status page.

System	
Uptime	9day,0h:1m:41s
Firmware Version	WR1040v13a.12.0IAC-C
Build Time	Tue, 15 Apr 2014 11:41:52 +0800

Wireless 1 Configuration	
Mode	AP
Band	5 GHz (A+N+AC)
SSID	RTK 11n AP 5G
Channel Number	44
Encryption	Disabled
BSSID	00:e0:5c:81:92:c2
Associated Clients	0

Wireless 2 Configuration	
Mode	AP
Band	2.4 GHz (B+G+N)
SSID	RTK 11n AP 2.4G
Channel Number	11
Encryption	Disabled
BSSID	00:e0:5c:81:92:d2
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:81:96:c1

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

### 3.3 Setup Wizard

Click on "**Wizard**" pages, it will guide you to setup your router step by step in simple way. In this section, there are seven steps to do it.

**Wizard**

- Operating Mode
- WAN Interface
- LAN Interface
- Wireless 5G
- Wireless 2.4G
- Server Setup
- Security
- QoS
- System
- Status
- Logout

**Setup Wizard**

The setup wizard will guide you to configure the Access Point for the first time. Follow the setup wizard step by step.  
Welcome to the Setup Wizard.

The Wizard will guide you through the following steps. Begin by clicking on Next.

1. Setup Operating Mode
2. Choose your Time Zone
3. Setup LAN Interface
4. Setup WAN Interface
5. Select Wireless Band
6. Wireless Basic Setting
7. Wireless Security Setting

Next>>

Please follow the steps and complete the router configuration.

#### Step 1 Setup Operation Mode

The router supports three operation modes, **Gateway**, **Bridge** and **Wireless ISP**. And each mode is suitable for different use, please choose correct mode.

**Wizard**

**Operating Mode**

You can setup different modes for the LAN and WLAN interfaces for NAT and bridging functions.

- Gateway: In this mode, the device connects to the internet via an ADSL/Cable Modem. NAT is enabled and PCs on LAN ports share the same IP Address to the ISP via the WAN port. The connection type can be setup on the WAN page using PPPOE, DHCP client, PPTP client, L2TP client, or static IP.
- Bridge: In this mode, all ethernet ports and wireless interfaces are bridged together and the NAT function is disabled. All WAN related functions, including the firewall, are not supported.
- Wireless ISP: In this mode, all ethernet ports are bridged together and the wireless client will connect to the ISP access point. NAT is enabled and PCs on Ethernet ports share the same IP to the ISP via the wireless LAN. You can connect to the ISP's AP on the Site-Survey page. The connection type can be setup on the WAN page using PPPOE, DHCP client, PPTP client, L2TP client, or static IP.

WAN Interface: wlan1

Cancel <<Back Next>>

## Step 2 Time Zone Setting

The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. Daylight Saving can also be configured to automatically adjust the time when needed.

### Wizard

#### Time Zone Setting

You can maintain the system time by synchronizing with a public time server over the Internet.

- Enable NTP client Update
- Automatically Adjust for Daylight Saving

Time Zone Select:

NTP server:




**Enable NTP client update:** Check this box to connect NTP Server and synchronize internet time.

**Automatically Adjust Daylight Saving:** Check this box, system will adjust the daylight saving automatically.

**Time Zone Select:** Select the Time Zone from the drop-down menu.

**NTP Server:** Select the NTP Server from the drop-down menu.

## Step 3 LAN Interface Setup

Setup the IP Address and Subnet Mask for the LAN interface.

### Wizard

#### LAN Interface Setup

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

IP Address:

Subnet Mask:

**IP Address:** Enter the IP address of your router. (**factory default: 192.168.1.1**)

**Subnet Mask:** An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.

#### Step 4 WAN Interface Setup

The router support five access modes in the WAN side, please choose correct mode according to your ISP Service.

#### Mode 1 DHCP Client

##### Wizard

#### WAN Interface Setup

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, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type:




Select DHCP Client to obtain IP Address information automatically from your ISP. This mode is commonly used for Cable modem services.

#### Mode 2 Static IP

Select Static IP Address if all the Internet port's IP information is provided to you by your ISP. You will need to enter in the IP address, subnet mask, gateway address, and DNS address(es) provided to you by your ISP. Each IP address entered in the fields must be in the appropriate IP form, which are four octets separated by a dot (x.x.x.x). The router will not accept the IP address if it is not in this format.

##### Wizard

#### WAN Interface Setup

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, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type:

IP Address:

Subnet Mask:

Default Gateway:

DNS :

**IP Address:** Enter the IP address assigned by your ISP.

**Subnet Mask:** Enter the Subnet Mask assigned by your ISP.

**Default Gateway:** Enter the Gateway assigned by your ISP.

**DNS:** The DNS server information will be supplied by your ISP (Internet Service Provider).

### Mode 3 PPPoE

Choose PPPoE (Point to Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provide you with a username and password. This option is typically used for DSL services.

#### Wizard

### WAN Interface Setup

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, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type:	<input type="text" value="PPPoE"/>
User Name:	<input type="text" value="3280354"/>
Password:	<input type="password" value="•••••"/>
<input type="button" value="Cancel"/> <input type="button" value=" &lt;&lt;Back"/> <input type="button" value=" Next &gt;&gt;"/>	

**User Name:** Enter your PPPoE user name.

**Password:** Enter your PPPoE password.

### Mode 4 PPTP

Choose PPTP (Point-to-Point-Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provide you with IP information and PPTP Server IP Address, of course it also includes a username and password. This mode is typically used for DSL services.

#### Wizard

### WAN Interface Setup

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, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type:	<input type="text" value="PPTP"/>
IP Address:	<input type="text" value="172.1.1.2"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Server IP Address:	<input type="text" value="172.1.1.1"/>
User Name:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Cancel"/> <input type="button" value=" &lt;&lt;Back"/> <input type="button" value=" Next &gt;&gt;"/>	



**IP Address:** Enter the IP address.

**Subnet Mask:** Enter the subnet Mask.

**Server IP Address:** Enter the PPTP Server IP address provided by your ISP.

**User Name:** Enter your PPTP username.

**Password:** Enter your PPTP password.

### Mode 5 L2TP

Choose L2TP (Layer 2 Tunneling Protocol) if your ISP uses a L2TP connection. Your ISP will provide you with a username and password.

## Wizard

### WAN Interface Setup

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, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type:	<input type="text" value="L2TP"/>
IP Address:	<input type="text" value="172.1.1.2"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Server IP Address:	<input type="text" value="172.1.1.1"/>
User Name:	<input type="text"/>
Password:	<input type="text"/>

**IP Address:** Enter the IP address.

**Subnet Mask:** Enter the subnet Mask.

**Server IP Address:** Enter the L2TP Server IP address provided by your ISP.

**User Name:** Enter your L2TP username.

**Password:** Enter your L2TP password.

### Step 5 Wireless 5GHz Basic Settings

This page is used to configure the basic parameters for 5GHz wireless network as the following screenshot:

## Wizard

## Wireless 5GHz Basic Settings

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

Band:

Mode:

Network Type:

SSID:

Channel Width:

Control Sideband:

Channel Number:

Enable Mac Clone (Single Ethernet Client)

Cancel

&lt;&lt;Back

Next&gt;&gt;

**Band:** This field determines the wireless mode which the router works on.

- **5GHz (A)** - Select if all of your wireless clients are 802.11a.
- **5GHz (N)** - Select if all of your wireless clients are 802.11n.
- **5GHz (A+N)** - Select if you are using both 802.11a and 802.11n wireless clients.
- **5GHz (AC)** - Select if all of your wireless clients are 802.11ac.
- **5GHz (N+AC)** - Select if you are using both 802.11n and 802.11ac wireless clients.
- **5GHz (A+N+AC)** - Select if you are using both 802.11a, 802.11n and 802.11ac wireless clients.

**Mode:** Support AP, Client, WDS and AP+WDS mode.

**Network Type:** This type is only valid in client mode.

**SSID:** Service Set Identifier, it identifies your wireless network.

**Channel Width:** Select the channel width from the drop-down list.

**ControlSideband:** This relates to the channel number used for your wireless network. An upper band represents higher channels and vice versa.

**Channel Number:** Indicates the channel setting for the router.

**Enable Mac Clone:** Enable or disable MAC clone option. (You can use the "Mac Clone" button to copy the MAC address of the Ethernet Card installed by your ISP and replace the WAN MAC address with this MAC address.)

### Step 6 Wireless 5G Security Setup

Secure your wireless network by turning on the WPA or WEP security feature on the router. This section you can set WEP and WPA-PSK security mode.

The following picture shows how to set the WEP security.

## Wizard

## Wireless 5G Security Setup

This page allows you setup wireless security. Using WEP or WPA Encryption Keys will help prevent unauthorized access to your wireless network.

Encryption:

Key Length:

Key Format:

Key Setting

**Key Length:** Specify the Length of the key, 64-bit or 128-bit.

**Key Format:** Specify the format of the key, ASCII or Hex.

**Key Setting:** Enter the key here, its format is limited by the key format, ASCII or Hex.

The following picture shows how to set WPA-PSK security, you can select WPA (TKIP), WPA2 (AES) and Mixed mode.

## Wizard

## Wireless 5G Security Setup

This page allows you setup wireless security. Using WEP or WPA Encryption Keys will help prevent unauthorized access to your wireless network.

Encryption:

Pre-Shared Key Format:

Pre-Shared Key:

**Pre-Shared Key Format:** Specify the format of the key, passphrase or HEX.

**Pre-Shared Key:** Enter the key here, its format is limited by the key format.

Click "**Next**" to set the 2.4GHz wireless network by the same method, and then click "**Finish**" button to complete the setting.

Through the wizard setup, you can complete the basic functions of a router settings to achieve Internet access. If you need more advanced setting of the router, please refer to the following chapters.

## Chapter 4 Configuring the Router

### 4.1 WAN Interface

There are two submenus under the WAN Interface menu: **WAN Interface**, **DDNS**. Click any of them, and you will be able to configure the corresponding function.

#### 4.1.1 WAN Interface

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 Client, PPPoE, PPTP or L2TP by click the item value of WAN Access type.

**WAN Interface Setup**

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, PPTP or L2TP by click the item value of WAN Access type.

WAN Access Type:

Host Name:

MTU Size:  (1400-1500 bytes)

Attain DNS Automatically  
 Set DNS Manually

DNS 1:   
 DNS 2:

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

#### 4.1.2 DDNS

Dynamic DNS is a service that provides you with a valid, unchanging, internet domain name (an URL) to go with that (possibly ever changing) IP-address.

WAN Interface

DDNS

**Dynamic DNS**

Dynamic DNS is a service that provides you with a valid, unchanging, internet domain name (an URL) to go with a (possibly changing) IP-address.

Enable DDNS

Service Provider:

Domain Name:

User Name/Email:

Password/Key:

*Note:*

For Oray DDNS, you can create your Oray account [here](#)

For DynDNS, you can create your DynDNS account [here](#)

For TZO, you can have a 30 days free trial [here](#)



**Service Provider:** Select one from the drop-down menu, such as DynDNS, OrayDDNS or TZO.

**Domain Name:** Enter the domain name (Such as host.dyndns.org).

**User Name/Email:** Enter the user name or email the same as the registration name.

**Password/Key:** Enter the password you set.

## 4.2 LAN Interface

There are three submenus under the LAN Interface menu: **LAN Interface**, **Static DHCP**, **DHCP Client**. Click any of them, and you will be able to configure the corresponding function.

### 4.2.1 LAN Interface

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

	LAN Interface	Static DHCP	DHCP Client
Wizard	<b>LAN Interface Setup</b>		
Operating Mode	This page is used to configure the parameters for the local area network that connects to the LAN port of your Access Point. Here you may change the settings for IP address, subnet mask, DHCP, etc..		
WAN Interface	IP Address:	<input type="text" value="192.168.1.1"/>	
LAN Interface	Subnet Mask:	<input type="text" value="255.255.255.0"/>	
Wireless 5G	Default Gateway:	<input type="text" value="0.0.0.0"/>	
Wireless 2.4G	DHCP:	<input type="text" value="Server"/>	
Server Setup	DHCP Client Range:	<input type="text" value="192.168.1.100"/> - <input type="text" value="192.168.1.200"/>	
Security	DHCP Lease Time:	<input type="text" value="480"/> (1 ~ 10080 minutes)	
QoS	Domain Name:	<input type="text"/>	
System	Clone MAC Address:	<input type="text" value="000000000000"/>	
Status	<input type="button" value="Apply"/> <input type="button" value="Reset"/>		
Logout			

**IP Address:** Enter the IP address of your router (**factory default: 192.168.1.1**).

**Subnet Mask:** An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.

**Default Gateway:** Enter the gateway IP address of your router.

**DHCP:** 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.

**DHCP Client Range:** The range of IP address the router DHCP server will assign to users and device connecting to the router.

**DHCP Lease Time:** The DHCP Lease Time is 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 ~ 10080 minutes. The default value is 480 minutes.

**Domain Name:** Input the domain name of you network.

**Clone MAC Address:** You can configure the MAC address of the LAN.

#### 4.2.2 Static DHCP

This page allows you reserve IP addresses, and assign the same IP address to the network device with the specified MAC address any time it requests an IP address.

LAN Interface

Static DHCP

DHCP Client

### Static DHCP Setup

This page allows you reserve IP addresses and assign the same IP address to a network device with a specified MAC address each time it requests an IP address. This is similar to having a static IP address except that the device must still request an IP address from the DHCP server.

Enable Static DHCP

IP Address:

MAC Address:

Comment:

### Static DHCP List:

IP Address	MAC Address	Comment	Select
------------	-------------	---------	--------

**IP Address:** Enter the IP address which needs to be bound.

**MAC Address:** Enter the MAC address of the computer you want to assign the above IP address.

**Comment:** You can add some comment for this item.

Click "**Apply**" to add the entry in the list.

## 4.2.3 DHCP Client

This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.

LAN Interface

Static DHCP

DHCP Client

### Active DHCP Client Table

This table shows the assigned IP address, MAC address and time expired for each DHCP leased client.

IP Address	MAC Address	Time Expired(s)
192.168.1.123	00:12:34:57:84:42	28540

**Refresh:** Click this button to refresh the data.

## 4.3 Wireless 5G

There are eight submenus under the Wireless 5G menu: **Basic**, **Advanced**, **Security**, **Access Control**, **WDS**, **Site Survey**, **WPS**, **Schedule**. Click any of them, and you will be able to configure the corresponding function.

### 4.3.1 Basic

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

The screenshot shows the 'Wireless Basic Setting-wlan1' configuration page. The left sidebar contains a navigation menu with options like Wizard, Operating Mode, WAN Interface, LAN Interface, Wireless 5G (highlighted), Wireless 2.4G, Server Setup, Security, QoS, System, Status, and Logout. The main content area has tabs for Basic, Advanced, Security, Access Control, WDS, Site Survey, WPS, and Schedule. The 'Basic' tab is active, showing the configuration for 'wlan1'. The page title is 'Wireless Basic Setting-wlan1'. Below the title is a description: 'This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.' The configuration options are as follows:

- Disable Wireless LAN Interface
- Band: 5 GHz (A+N+AC)
- Mode: AP (with a 'Multiple AP' button)
- Network Type: Infrastructure
- SSID: RTK 11n AP 5G (with an 'Add to Profile' button)
- Channel Width: 80MHz
- Control Sideband: Auto
- Channel Number: 44
- Broadcast SSID: Enabled
- WMM: Enabled
- Data Rate: Auto
- Associated Clients: Show Active Clients (button)
- Enable Mac Clone (Single Ethernet Client)
- Enable Universal Repeater Mode (Acting as AP and client simultaneously)
- SSID of Extended Interface: RTK 11n AP RPT0 (with an 'Add to Profile' button)

**Disable Wireless LAN Interface:** Check this box to to disable the router's wireless features; uncheck to enable it.

**Band:** Select one mode from the following. The default is 5GHz (A+N+AC) mode.

**Mode:** Support AP, Client, WDS and AP+WDS mode.

**SSID:** SSID (Service Set Identifier) is the unique name of the wireless network.

**Channel Width:** Select the channel width from the drop-down list.

**ControlSideband:** This relates to the channel number used for your wireless network. An upper band represents higher channels and vice versa.

**Channel Number:** Indicates the channel setting for the router.

**Broadcast SSID:** Select "Enable" to enable the device's SSID to be visible by wireless clients. The default is enabled.

**WMM:** It will enhance the data transfer performance of multimedia data when they're being transferred over wireless network.

**Data Rate:** Sets the maximum wireless data rate that your network will operate on.

**Associated Clients:** You can see the MAC Address, MAC address, transmission and reception packet counters for each associated wireless client.



### 4.3.2 Advanced

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.

Basic	Advanced	Security	Access Control	WDS	Site Survey	WPS	Schedule
<b>Wireless Advanced Settings-wlan1</b>							
These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.							
Fragment Threshold:	<input type="text" value="2346"/>	(256-2346)					
RTS Threshold:	<input type="text" value="2347"/>	(0-2347)					
Beacon Interval:	<input type="text" value="100"/>	(20-1024 ms)					
IAPP:	<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled					
Protection:	<input type="radio"/> Enabled	<input checked="" type="radio"/> Disabled					
Aggregation:	<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled					
Short GI:	<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled					
WLAN Partition:	<input type="radio"/> Enabled	<input checked="" type="radio"/> Disabled					
STBC:	<input checked="" type="radio"/> Enabled	<input type="radio"/> Disabled					
RF Output Power:	<input checked="" type="radio"/> 100%	<input type="radio"/> 70%	<input type="radio"/> 50%	<input type="radio"/> 35%	<input type="radio"/> 15%		
<input type="button" value="Apply"/>		<input type="button" value="Reset"/>					

**Fragment Threshold:** This value is the maximum size determining whether packets will be fragmented. Setting the Fragmentation Threshold too low may result in poor network performance since excessive packets.

**RTS Threshold:** RTS stands for "Request to Send". This parameter controls what size data packet the frequency protocol issues to RTS packet. The default value of the attribute is 2347. It is recommended not to modify this value in SOHO environment.

**Beacon Interval:** Enter a value between 20-1024 milliseconds for Beacon Interval here. The beacons are the packets sent by the router to synchronize a wireless network. Beacon Interval value determines the time interval of the beacons.

**IAPP:** Inter-Access Point Protocol.

**Short GI:** This function is recommended for it will increase the data capacity by reducing the guard interval time.

**STBC:** Space Time Block Coding improves reception by coding the data stream in blocks.

**RF Output Power:** Here you can specify the rf output power of router.

### 4.3.3 Security

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.

Basic Advanced **Security** Access Control WDS Site Survey WPS Schedule

**Wireless Security Setup-wlan1**

This page allows you setup wireless security. Using WEP or WPA Encryption Keys will help prevent unauthorized access to your wireless network.

Select SSID:

Encryption:

Disabled  
WEP  
WPA  
WPA2  
WPA-Mixed

### 4.3.4 Access Control

The Wireless MAC Address Filtering feature allows you to control wireless stations accessing the router, which depend on the station's MAC addresses.

Basic Advanced **Security** **Access Control** WDS Site Survey WPS Schedule

**Wireless Access Control -wlan1**

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 to the Access Point.

Wireless Access Control Mode:

MAC Address:

Comment:

**Current Access Control List:**

MAC Address	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>		

**Wireless Access Control Mode:** 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. The MAC Address format is 001122334455.

### 4.3.5 WDS

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, firstly you must set AP Mode to WDS or AP+WDS in basic setting, then enable WDS function and set another AP MAC which you want to communicate with. The WDS supports WEP and PSK security mode. Of course in order to make APs work, you have to keep them the same channel and security mode.

Basic Advanced Security Access Control **WDS** Site Survey WPS Schedule

### WDS Settings - wlan1

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

Enable WDS

MAC Address:

Data Rate:

Comment:

### Current WDS AP List:

MAC Address:	Tx Rate (Mbps)	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>			

**Enable WDS:** Check this box to enable WDS function.

**MAC Address:** Enter the remote AP MAC address.

**Data Rate:** Sets the maximum wireless data rate that your network will operate on.

**Comment:** You can add some comment for this item.

### 4.3.6 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.

Basic Advanced Security Access Control WDS **Site Survey** WPS Schedule

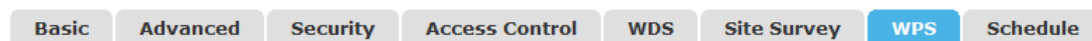
### Wireless Site Survey - wlan1

This page provides a tool to scan for wireless networks. If an Access Point or IBSS is found, you could choose to connect to it manually when client mode is enabled.

SSID	BSSID	Channel	Type	Encrypt	Signal
None					

### 4.3.7 WPS

WPS is designed to ease set up of security Wi-Fi networks and subsequently network management. This router supports WPS features for AP mode, AP+WDS mode, Infrastructure-Client mode, and the wireless root interface of Universal Repeater mode.



### Wi-Fi Protected Setup

This page allows you to change the settings for WPS (Wi-Fi Protected Setup). Using this feature allows a wireless client to automatically synchronize its settings and easily and securely connect to the Access Point.

Disable WPS

WPS Status:  Configured  UnConfigured

Auto-lock-down state Unlocked

Self-PIN Number: 89729533

Push Button Configuration:

STOP WSC

Client PIN Number:

**Disable WPS:** Check this box and clicking "Apply" will disable WPS function. WPS is turned on by default.

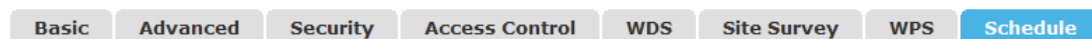
**Self-PIN Number:** It is AP's PIN.

**Start PBC:** Clicking this button will invoke the Push Button Configuration of WPS. If one station wants to connect to the AP, it must click its PBC button in two minute. You can see the WPS LED flash this time.

**Client PIN Number:** The length of PIN is limited to four or eight numeric digits. If the AP and Station input the same PIN and click "Start PIN" button in two minutes, they will establish connection and setup their security key.

### 4.3.8 Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.



### Wireless Schedule

This page allows you setup the wireless schedule rule. Do not forget to configure the system time before enabling this feature.

Enable Wireless Schedule

Days

Everyday  Sun  Mon  Tue  Wed  Thu  Fri  Sat

Time

24 Hours  From  :  To  :

## 4.4 Wireless 2.4G

There are eight submenus under the Wireless 2.4G menu: **Basic**, **Advanced**, **Security**, **Access Control**, **WDS**, **Site Survey**, **WPS**, **Schedule**. Click any of them, and you will be able to configure the corresponding function.

### 4.4.1 Basic

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

**Disable Wireless LAN Interface:** Check this box to to disable the router's wireless features; uncheck to enable it.

**Band:** Select one mode from the following. The default is 2.4 GHz (B+G+N) mode.

**Mode:** Support AP, Client, WDS and AP+WDS mode.

**Network Type:** This type is only valid in client mode.

**SSID:** SSID (Service Set Identifier) is the unique name of the wireless network.

**Channel Width:** Select the channel width from the pull-down list.

**ControlSideband:** This relates to the channel number used for your wireless network. An upper band represents higher channels and vice versa.

**Channel Number:** Indicates the channel setting for the router.

**Broadcast SSID:** Select "Enable" to enable the device's SSID to be visible by wireless clients. The default is enabled.

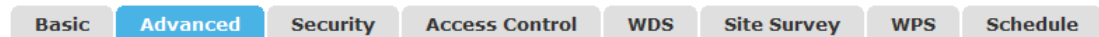
**WMM:** It will enhance the data transfer performance of multimedia data when they're being transferred over wireless network.

**Data Rate:** Sets the maximum wireless data rate that your network will operate on.

**Associated Clients:** You can see the MAC Address, MAC address, transmission and reception packet counters for each associated wireless client.

### 4.4.2 Advanced

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.



#### Wireless Advanced Settings-wlan2

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Access Point.

Fragment Threshold:  (256-2346)  
 RTS Threshold:  (0-2347)  
 Beacon Interval:  (20-1024 ms)  
 Preamble Type:  Long Preamble  Short Preamble  
 IAPP:  Enabled  Disabled  
 Protection:  Enabled  Disabled  
 Aggregation:  Enabled  Disabled  
 Short GI:  Enabled  Disabled  
 WLAN Partition:  Enabled  Disabled  
 STBC:  Enabled  Disabled  
 20/40MHz Coexist:  Enabled  Disabled  
 RF Output Power:  100%  70%  50%  35%  15%

**Fragment Threshold:** This value is the maximum size determining whether packets will be fragmented. Setting the Fragmentation Threshold too low may result in poor network performance since excessive packets.

**RTS Threshold:** RTS stands for "Request to Send". This parameter controls what size data packet the frequency protocol issues to RTS packet. The default value of the attribute is 2347. It is recommended not to modify this value in SOHO environment.

**Beacon Interval:** Enter a value between 20-1024 milliseconds for Beacon Interval here. The beacons are the packets sent by the router to synchronize a wireless network. Beacon Interval value determines the time interval of the beacons.

**IAPP:** Inter-Access Point Protocol.

**Short GI:** This function is recommended for it will increase the data capacity by reducing the guard interval time.

**STBC:** Space Time Block Coding improves reception by coding the data stream in blocks.

**RF Output Power:** Here you can specify the rf output power of router.

### 4.4.3 Security

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.

Basic Advanced **Security** Access Control WDS Site Survey WPS Schedule

### Wireless Security Setup-wlan2

This page allows you setup wireless security. Using WEP or WPA Encryption Keys will help prevent unauthorized access to your wireless network.

Select SSID:

Encryption: 

- Disabled
- WEP
- WPA
- WPA2
- WPA-Mixed

#### 4.4.4 Access Control

The Wireless MAC Address Filtering feature allows you to control wireless stations accessing the router, which depend on the station's MAC addresses.

Basic Advanced Security **Access Control** WDS Site Survey WPS Schedule

### Wireless Access Control -wlan2

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 to the Access Point.

Wireless Access Control Mode: 

- Disable
- Allow Listed
- Deny Listed

MAC Address:

Comment:

#### Current Access Control List:

MAC Address	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>		

**Wireless Access Control Mode:** 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. The MAC Address format is 001122334455.

#### 4.4.5 WDS

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, firstly you must set AP Mode to WDS or AP+WDS in basic setting, then enable WDS function and set another AP MAC which you want to communicate with. The WDS supports WEP and PSK security mode. Of course in order to make APs work, you have to keep them the same channel and security mode.

Basic Advanced Security Access Control **WDS** Site Survey WPS Schedule

### WDS Settings - wlan2

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

Enable WDS

MAC Address:

Data Rate:

Comment:

### Current WDS AP List:

MAC Address:	Tx Rate (Mbps)	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>			

**Enable WDS:** Check this box to enable WDS function.

**MAC Address:** Enter the remote AP MAC address.

**Data Rate:** Sets the maximum wireless data rate that your network will operate on.

**Comment:** You can add some comment for this item.

## 4.4.6 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.

Basic Advanced Security Access Control WDS **Site Survey** WPS Schedule

### Wireless Site Survey - wlan2

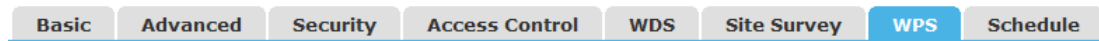
This page provides a tool to scan for wireless networks. If an Access Point or IBSS is found, you could choose to connect to it manually when client mode is enabled.

SSID	BSSID	Channel	Type	Encrypt	Signal
AP	00:e0:4c:81:92:d1	11 (B+G)	AP	WPA-PSK/WP A2-PSK	20
FAST_9299FA	78:a1:06:92:99:fa	11 (B+G+N)	AP	no	16
Fullriver WiFi 40	00:06:ac:11:22:34	8 (B+G+N)	AP	no	6

## 4.4.7 WPS

WPS is designed to ease set up of security Wi-Fi networks and subsequently network management. This router supports WPS features for AP mode, AP+WDS mode, Infrastructure-Client mode, and the wireless root interface of Universal Repeater mode.





### Wi-Fi Protected Setup

This page allows you to change the settings for WPS (Wi-Fi Protected Setup). Using this feature allows a wireless client to automatically synchronize its settings and easily and securely connect to the Access Point.

Disable WPS

WPS Status:  Configured  UnConfigured

Auto-lock-down state Unlocked

Self-PIN Number: 89729533

Push Button Configuration:

STOP WSC

Client PIN Number:

**Disable WPS:** Check this box and clicking "Apply" will disable WPS function. WPS is turned on by default.

**WPS Status:** When router's settings are factory default, it is set to open security and un-configured state, some registers such as Vista WCN can configure AP. Otherwise If it already shows "Configured", it means that the router has setup its security.

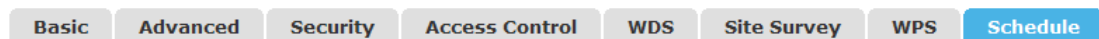
**Self-PIN Number:** It is AP's PIN.

**Start PBC:** Clicking this button will invoke the Push Button Configuration of WPS. If one station wants to connect to the AP, it must click its PBC button in two minute. You can see the WPS LED flash this time.

**Client PIN Number:** The length of PIN is limited to four or eight numeric digits. If the AP and Station input the same PIN and click "Start PIN" button in two minutes, they will establish connection and setup their security key.

## 4.4.8 Schedule

This page allows you setup the wireless schedule rule. Please do not forget to configure system time before enable this feature.



### Wireless Schedule

This page allows you setup the wireless schedule rule. Do not forget to configure the system time before enabling this feature.

Enable Wireless Schedule

Days

Everyday  Sun  Mon  Tue  Wed  Thu  Fri  Sat

Time

24 Hours  From  :  To  :

## 4.5 Service Setup

There are two submenus under the Server Setup menu: **Port Forwarding**, **DMZ**. Click

any of them, and you will be able to configure the corresponding function.

### 4.5.1 Port Forwarding

If you configure the router as Virtual Server, remote users accessing services such as Web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP address. In other words, depending on the requested service (TCP/UDP port number), the router redirects the external service request to the appropriate server.

**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 such as a web server or mail server on the private local network behind your Gateway's NAT firewall.

Enable Port Forwarding

IP Address:

Protocol:

Port Range:  -

Comment:

**Current Port Forwarding Table:**

Local IP Address	Protocol	Port Range	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>				

**Enable Port Forwarding:** Check this box will enable Port Forwarding function.

**IP Address:** That external User accesses the router will redirect to this local IP.

**Protocol & Port Range:** The packet with this protocol and port will be redirected to the local IP.

**Comment:** You can add some comment for this item.

**Current Port Forwarding Table:** The table shows all you have configured. You can delete one or all.

### 4.5.2 DMZ

If you have a client PC that cannot run Internet application properly from behind the NAT firewall or after configuring the Port Forwarding, then you can open the client up to unrestricted two-way Internet access.

## Port Forwarding

## DMZ

## 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:

Apply

Reset

**Enable DMZ:** Check this box will enable DMZ function.

**DMZ Host IP Address:** Enter DMZ host IP Address may expose this host to a variety of security risks.

## 4.6 Security

The router provides extensive firewall protection by restricting connection parameters to limit the risk of intrusion and defending against a wide array of common hacker attacks.

There are four submenus under the Security menu: **Port Filtering**, **IP Filtering**, **URL Filtering**, **MAC Filtering**. Click any of them, and you will be able to configure the corresponding function.

### 4.6.1 Port Filtering

Port Filtering allows you to enable or disable TCP ports and UDP ports on computers or network devices. Port Filtering insulates your local computers from many TCP/IP security attacks, including internal attacks by malicious users.

**Enable Port Filtering:** Check this box will enable Port Filtering function.

**Port Range:**The port range that you want to filter.

**Protocol:** The protocol that you want to filter, either TCP, UDP, or Both.

**Comment:** You can add some comment for this item.

**Current Filter Table:** The table shows all you have configured. You can delete one or all.

## 4.6.2 IP Filtering

IP Filtering is used to block internet or network access to specific IP addresses on your local network. The restricted user may still be able to login to the network but will not be able to access the internet. To begin blocking access to an IP address, enable IP Filtering and enter the IP address of the user you wish to block.

Port Filtering
IP Filtering
URL Filtering
MAC Filtering

**IP Filtering**

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

Enable IP Filtering

Local IP Address:  -

Protocol: Both v

Comment:

**Current Filter Table:**

Local IP Address	Protocol	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>			

**Enable IP Filtering:** Check this box will enable IP Filtering function.

**Local IP Address:** The LAN device's IP address that you want to filter.

**Protocol:** The protocol that you want to filter, either TCP, UDP, or Both.

**Comment:** You can add some comment for this item.

**Current Filter Table:** The table shows all you have configured. You can delete one or all.

## 4.6.3 URL Filtering

URL filtering is used to deny LAN users from accessing the internet.

[Port Filtering](#)
[IP Filtering](#)
[URL Filtering](#)
[MAC Filtering](#)

### URL Filtering

The URL filter is used to restrict LAN users access to the internet. Block those URLs which contain keywords listed below.

Enable URL Filtering

URL Address:

#### Current Filter Table:

URL Address	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>	

**Enable URL Filtering:** Check this box will enable URL Filtering function.

**URL Address:** The URL Address that you want to filter.

**Current Filter Table:** The table shows all you have configured. You can delete one or all.

#### 4.6.4 MAC Filtering

MAC Filtering allows you to deny access to specific users connecting to the network. Each networking device has a unique address called a MAC address (a 12 digit hex number).

[Port Filtering](#)
[IP Filtering](#)
[URL Filtering](#)
[MAC Filtering](#)

### MAC Filtering

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

Enable MAC Filtering

MAC Address:

Comment:

#### Current Filter Table:

MAC Address	Comment	Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>		

**Enable MAC Filtering:** Check this box will enable MAC Filtering function.

**MAC Address:** The LAN device's MAC address that you want to filter.

**Comment:** You can add some comment for this item.

**Current Filter Table:** The table shows all you have configured. You can delete one or all.

## 4.7 QoS

The QoS helps improve your network gaming performance by prioritizing applications. By default the bandwidth control are disabled and application priority is not classified automatically.

In order to complete this settings, please follow the steps below.

1. Enable this function.
2. Enter the total speed or choose automatic mode.
3. Enter the IP address or MAC address user want to control.
4. Specify how to control this PC with this IP address or MAC address, include Maximum or minimum bandwidth and its up/down speed.
5. Click Apply button to add this item to control table.

Wizard

---

Operating Mode

---

WAN Interface

---

LAN Interface

---

Wireless 5G

---

Wireless 2.4G

---

Server Setup

---

Security

---

**QoS**

---

System

---



---

Status

---

Logout

QoS

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

Mode:  Bandwidth Shaping  WFQ

Uplink Speed (Kbps):

Downlink Speed (Kbps):

---

**QoS Rule Setting:**

Address Type:  IP  MAC

Local IP Address:

Protocol:

Local Port:(1~65535)  -

MAC Address:

Weight

Mode:

Uplink Bandwidth (Kbps):

Downlink Bandwidth (Kbps):

---

**Current QoS Rules Table:**

Local IP Address	MAC Address	Mode Valid	Uplink Bandwidth	Downlink Bandwidth	Weight Select
<input type="button" value="Delete Selected"/> <input type="button" value="Delete All"/> <input type="button" value="Reset"/>					

## 4.8 System

There are six submenus under the System menu: **Time Zone Setting, Upgrade Firmware, Save/Reload Settings, Password, Reboot, Language**. Click any of them, and you will be able to configure the corresponding function.

## 4.8.1 Time Zone Setting

You can maintain the system time by synchronizing with a public time server over the Internet.

**Copy Computer Time:** Enter your PC's current time into the above blanks.

**Time Zone select:** Select your local time zone from this pull down list.

**Enable NTP client Update:** Check this box to connect NTP Server and synchronize internet time.

**NTP Server:** Select the NTP Server, then the router will get the time form the NTP Server preferentially.

## 4.8.2 Upgrade Firmware

You can upgrade latest Firmware in this page.

**Firmware Version:** This displays the current firmware version.

## 4.8.3 Save/Reload Settings

You can backup or restore the system configuration in this page.



#### Save/Reload Settings

This page allows you to save current settings to a file or reload the settings from a file that was saved previously. You can also reset the current configuration to factory defaults.

Save Settings to File:

Load Settings from File:

Reset Settings to Default:

**Save Settings to File:** Get the router's settings and store it in your local computer.

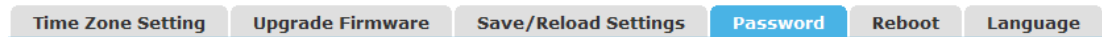
**Load Settings from File:** Restore the settings from the file you backup before from your local computer, the router will go to the former settings.

**Reset Settings to Default:** Restore the system settings to factory default.

### 4.8.4 Password

To ensure the router's security, you will be asked for your password when you access the router's Web-based Utility. The default user name and password is "**admin**".

This page will allow you to modify the User name and passwords.



#### Password Setup

This page is used to setup an account to access the web server of the Access Point. An empty user name and password will disable password protection.

User Name:

New Password:

Confirm Password:

### 4.8.5 Reboot

You can reboot device via clicking the **Apply** button.



#### Reboot

You can click the Apply button to reboot the router.

### 4.8.6 Language

You can select Language in this page.



#### Language Setting

Language



## Chapter 5 Status

There are three submenus under the Status menu: **Status**, **Statistics**, **Log**. Click anyone, you will see the following status.

### 5.1 Status

The System Status provides you with a snapshot of your router's current connections and settings.

The System Information section provides you with the router's firmware version and build. This is used to help our support department determine what firmware version your device is running. The Current Date / Time is the setting for the system clock.

The Wireless Configuration shows the details of the 5.0GHz and 2.4GHz wireless networks.

The TCP/IP Configuration displays the current configurations for local network IP address and DHCP server settings.

The WAN Configuration displays the information from your Internet Provider. If for some reason your Internet connection stops working, you may try running through the Smart Setup Wizard again.

The screenshot shows the router's web interface with the 'Status' tab selected. The left sidebar contains navigation options: Wizard, Operating Mode, WAN Interface, LAN Interface, Wireless 5G, Wireless 2.4G, Server Setup, Security, QoS, System, Status (highlighted), and Logout. The main content area is divided into several sections:

- Access Point Status**: This page shows the current status and some basic settings of the device.
- System**:
 

Uptime	0day:0h:1m:41s
Firmware Version	WR1046v11a.12.01AC-C
Build Time	Tue, 15 Apr 2014 11:43:52 +0800
- Wireless 1 Configuration**:
 

Mode	AP
Band	5 GHz (A+N+AC)
SSID	RTK 11n AP 5G
Channel Number	44
Encryption	Disabled
BSSID	00:e0:5c:81:92:c2
Associated Clients	0
- Wireless 2 Configuration**:
 

Mode	AP
Band	2.4 GHz (B+G+N)
SSID	RTK 11n AP 2.4G
Channel Number	11
Encryption	Disabled
BSSID	00:e0:5c:81:92:d2
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:81:96:c1
- 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

## 5.2 Statistics

This page shows the packet counters for transmission and reception regarding to wireless and Ethernet networks.

The Wireless 1/2 LAN connection statistics shows all data activity for both the 5.0GHz and 2.4GHz wireless networks separately.

The Ethernet LAN connection statistics shows all data activity for all users physically connected to the wired ports on the router.

The Ethernet WAN connection statistics shows the data activity for all upload and download data over your Internet connection.

Status
Statistics
Log

**Statistics**

This page shows the packet counters for transmission and reception pertaining to wireless and Ethernet networks.

Wireless 1LAN	<i>Sent Packets</i>	0
	<i>Received Packets</i>	2682
Wireless 2LAN	<i>Sent Packets</i>	75
	<i>Received Packets</i>	3180
Ethernet LAN	<i>Sent Packets</i>	581
	<i>Received Packets</i>	532
Ethernet WAN	<i>Sent Packets</i>	182
	<i>Received Packets</i>	0

## 5.3 Log

The System Log is useful for viewing the activity and history of your router. The System Log is also used by Amped Wireless technicians to help troubleshoot your router when needed. It is recommended that you enable logs in the event that troubleshooting is required. Click the "**Refresh**" to update the log. Click "**Clear**" to clear all shown information.

Status Statistics **Log**

### System Log

This page can be used to set a remote log server and view the system log.

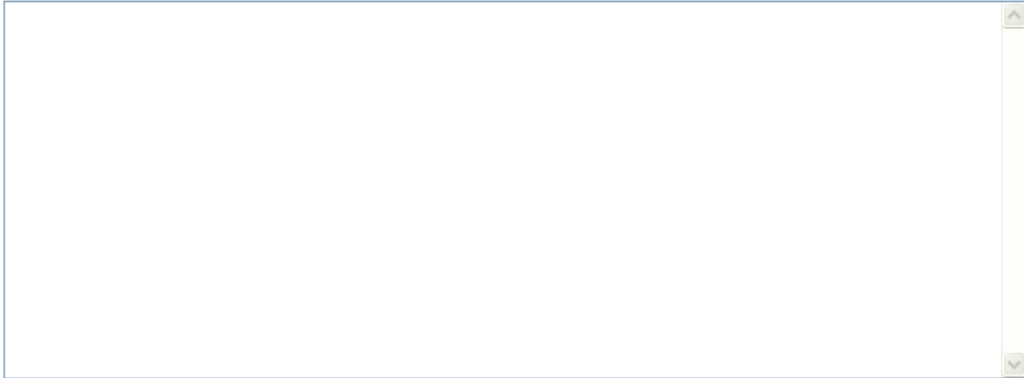
Enable Log

System All

Wireless

DoS

Apply



Refresh

Clear

**Enable Log:** Click this box to enable Log.

## Chapter 6 Logout

Choose "**Logout**", and you will be back to the login screen.

The screenshot displays the router's configuration web interface. On the left is a vertical sidebar menu with the following items: Wizard, Operating Mode, WAN Interface, LAN Interface, Wireless 5G, Wireless 2.4G, Server Setup, Security, QoS, System, Status, and Logout. The 'Logout' item is highlighted in yellow. The main content area has a blue header with the word 'Logout'. Below the header, the text reads: 'This page is used to logout. Do you want to logout ?' followed by an 'Apply' button.

## **Chapter 7 FCC ID Warning:**

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To operate the equipment

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS 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 and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."