



# Super G™ Wireless Broadband Router

Model # AR430W

User's Manual

Ver. 1A

# Table of Contents

1. Introduction.....	3
2. Connecting the Router .....	4
3. Verifying Connection to the Router.....	5
4. Configuring the Router .....	8
Cable Modem.....	9
DSL.....	9
5. Connecting to the Router Wirelessly .....	11
6. Web Configuration Utility .....	12
6.1 Setup .....	12
6.2. Wireless.....	16
6.3 Security .....	22
6.4 Access Restrictions .....	23
6.5 Applications & Gaming .....	28
6.6 Administration .....	31
6.7 Status.....	37
7. Troubleshooting .....	40
Technical Support.....	41

# 1. Introduction

Congratulations on your purchase of this Super G Wireless Broadband Router. This product is specifically designed for Small Office and Home Office needs. It provides a complete SOHO solution for Internet surfing and is easy to configure and operate even for non-technical users. Instructions for installing and configuring this product can be found in this manual. Before you install and use this product, please read this manual carefully for proper operation of this product.

## Basic Functions

- **Super G™ Technology**  
Supports up to 108Mbps\* data rate
- **NAT Routing**  
Connects multiple computers with wire or wirelessly to a broadband (cable or DSL) modem to surf the Internet.
- **Auto-Sensing Ethernet Switch**  
Equipped with a 4-port auto-sensing Ethernet switch.
- **Firewall**  
All unwanted packets from outside intruders are blocked to protect your Intranet.
- **DHCP Server Supported**  
All of the networked computers can retrieve TCP/IP settings automatically from this product.
- **Web-Based Configuration**  
Configurable through any networked computer's web browser using Netscape or Internet Explorer.

## Security Functions

- **VPN Pass-Through**  
Support VPN pass-through.
- **SPI Mode Supported**  
When SPI Mode is enabled, the router will check every incoming packet to determine if the packet is valid.
- **Wireless Security**  
WEP, WPA, WPA2, and Wireless MAC Filter

## Advanced Functions

- **Multiple administrators**
- **Detailed logging**
- **UPNP (Universal Plug-and-Play) Supported**
- **WMM**
- **DDNS**

## 2. Connecting the Router

**Note:** Prior to connecting the router, be sure to power off your computer, DSL/Cable modem, and the router. You should setup the router with a wired connection first before attempting to setup any wireless connection.

**Step 1** Connect one end of a network cable to the **WAN** port of the router and connect the other end of the cable to the DSL/Cable modem.

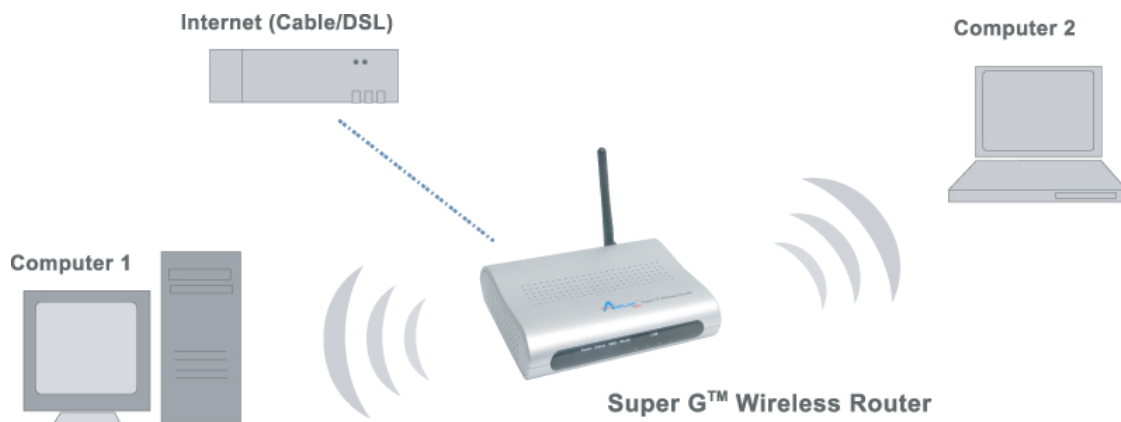
**Step 2** With another network cable, connect one end of the cable to your computer's network card and connect the other end to one of the **LAN (Ethernet)** ports of the router.

**Step 3** Power on the DSL/Cable modem and wait for the lights on the modem to settle down.

**Step 4** Power on the router by connecting one end of the supplied power adapter to the power jack of the router and connecting the other end to an electrical outlet.

**Step 5** Power on your computer.

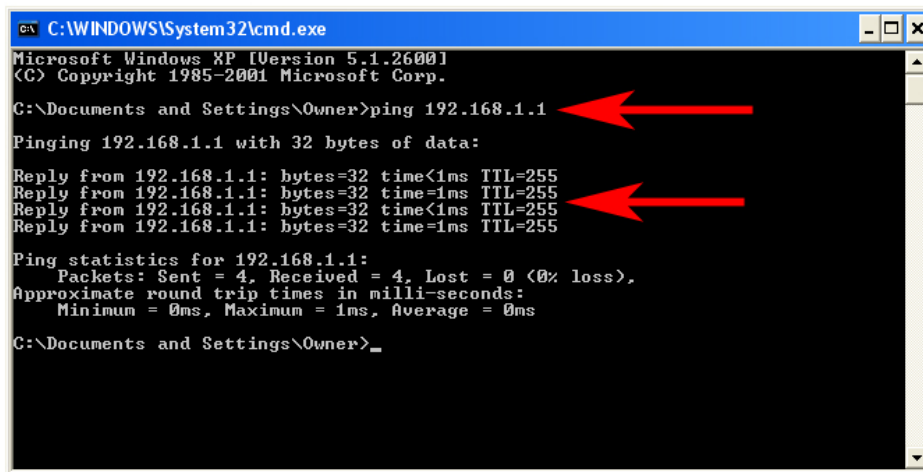
**Step 6** Make sure the **WAN**, **WLAN**, and the **LAN** port that the computer is connected to are lit. If not, try the above steps again.



### 3. Verifying Connection to the Router

**Step 1** Go to **Start, Run**, type **command** (for Windows 95/98/ME) or **cmd** (for Windows 2000/XP) and click **OK**. You will see the command prompt as below.

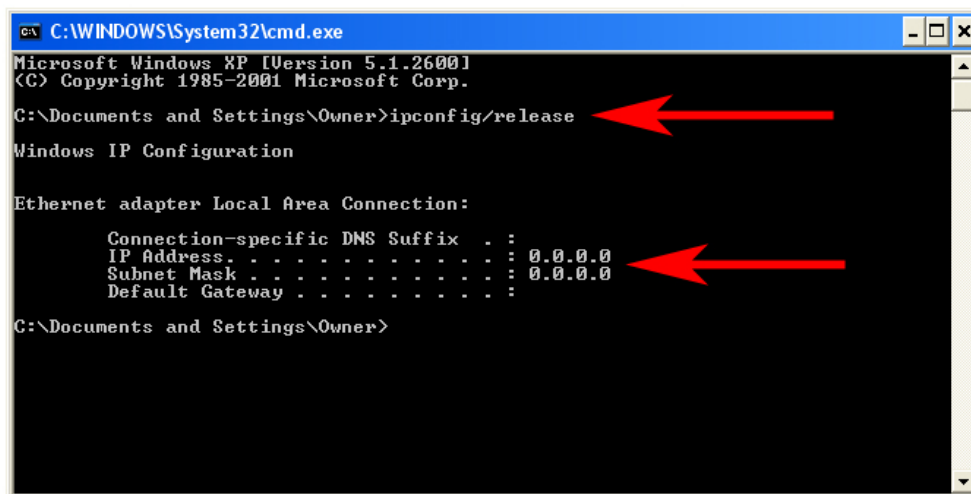
**Step 2** Type **ping 192.168.1.1** and press **Enter**. You should get four reply responses back.



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Owner>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
C:\Documents and Settings\Owner>_
```

**Step 3** If you get **Request timed out**, or **Destination host unreachable**, double-check the network cable connection between the computer and the router and try **Step 2** again. If you still encounter problem, go to the next step; otherwise proceed to **Section 3, Configure the Router**.

**Step 4** For Windows 2000/XP, type **ipconfig/release** and press **Enter**.

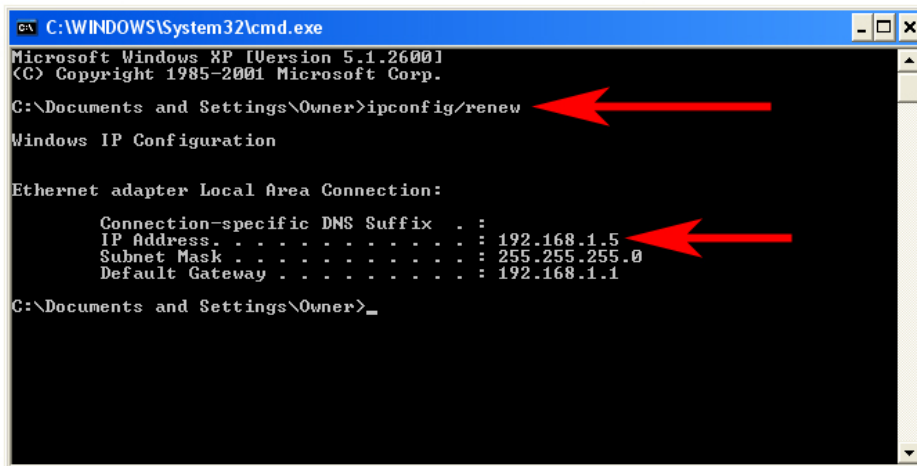


```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Owner>ipconfig/release
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . :
    IP Address . . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . :
C:\Documents and Settings\Owner>
```

**Step 5** Type **ipconfig/renew** and press **Enter**. You should get an IP address of **192.168.1.x** (where **x** is a number between 2 - 254). Proceed to **Section 3, Configure the Router**. If you don't get an IP address, reset the router by holding in the reset button at the back of the router for 10 seconds while it is ON and try **ipconfig/renew** again.



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Owner>ipconfig/renew
Windows IP Configuration

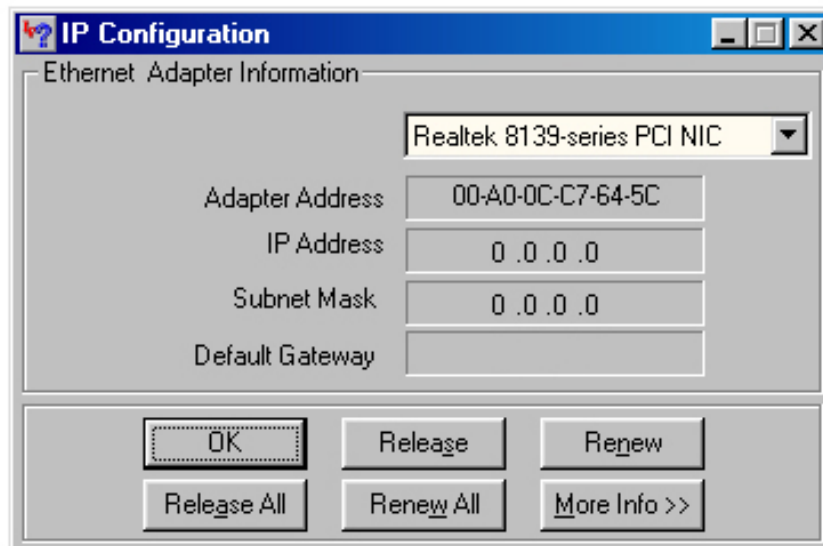
Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . . . :
    IP Address . . . . . : 192.168.1.5
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1

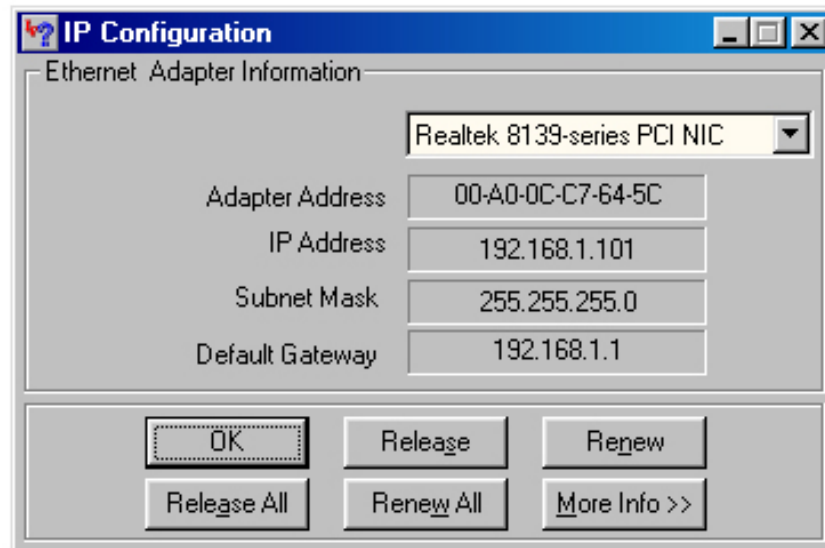
C:\Documents and Settings\Owner>
```

**Step 6** For Windows 95/98/ME go to **Start, Run**, type **winipcfg** and click **OK**.

**Step 7** Select your network card from the drop-down menu and click **Release**.

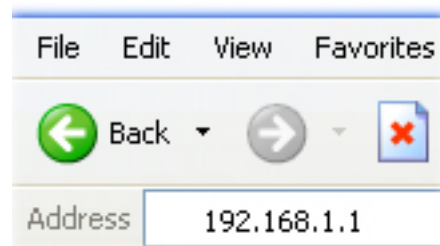


**Step 8** After your IP address is released, click **Renew**. You should get an IP address of **192.168.1.x** (where **x** is a number between 2 - 254). If you don't get an IP address, reset the router by holding in the reset button at the back of the router for 10 seconds while it is ON and try **Renew** again.

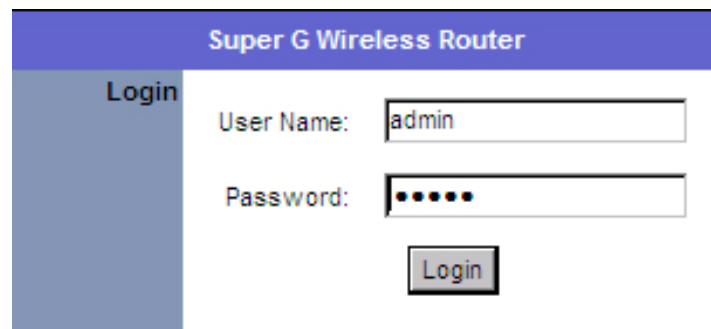


## 4. Configuring the Router

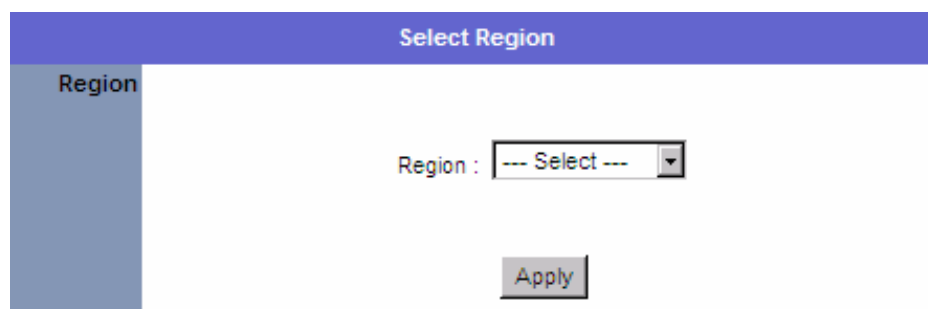
**Step 1** Open the web browser and type **192.168.1.1** in the URL Address field and press **Enter**.



**Step 2** Enter **admin** for both the username and password fields and click **Login**.

A screenshot of the "Super G Wireless Router" login page. The page has a blue header with the text "Super G Wireless Router". Below the header is a "Login" section. It contains two input fields: "User Name:" with the text "admin" entered, and "Password:" with six dots. Below the password field is a "Login" button.

**Step 3** Select the proper region, **North America** or **South America**, and click **Apply**.

A screenshot of the "Select Region" page. The page has a blue header with the text "Select Region". Below the header is a "Region" section. It contains a dropdown menu labeled "Region:" with the text "--- Select ---" and a downward arrow. Below the dropdown menu is an "Apply" button.

**Warning:** This device requires that the user or installer properly selects the current region of operation before using this device. This device will automatically limit the allowable channels determined by the current region of operation.

**Incorrectly selecting the current region of operation may result in illegal operation and may cause harmful interference to other system.** The user is



obligated to ensure the device is operating according to the channel limitations, indoor/outdoor restrictions and license requirements for the current country of operation.

## Cable Modem

For most cable modem users, you should be able to connect to the Internet without any configuration. If your ISP has provided you with a host name, enter it in the optional **Host Name** field.

If your ISP requires a registered MAC Address, click on the **Clone MAC Address** button. Click **Apply** and **OK** to save the setting.

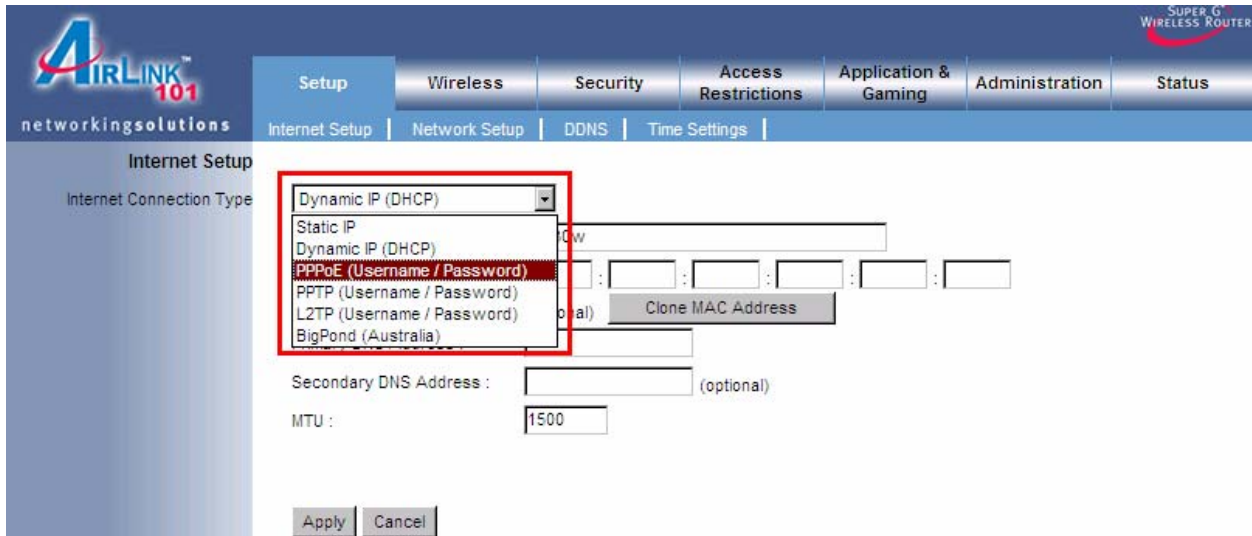
The screenshot shows the 'Internet Setup' page of an Airlink 101 router. The 'Internet Connection Type' is set to 'Dynamic IP (DHCP)'. The 'Host Name' field is highlighted with a red box. Below it, the 'MAC Address' field is also highlighted with a red box, and a 'Clone MAC Address' button is visible next to it. Other fields include 'Primary DNS Address', 'Secondary DNS Address', and 'MTU' (set to 1500). 'Apply' and 'Cancel' buttons are at the bottom.

If you have trouble connecting to the Internet, please refer to the **Troubleshooting** section at the end of this guide.

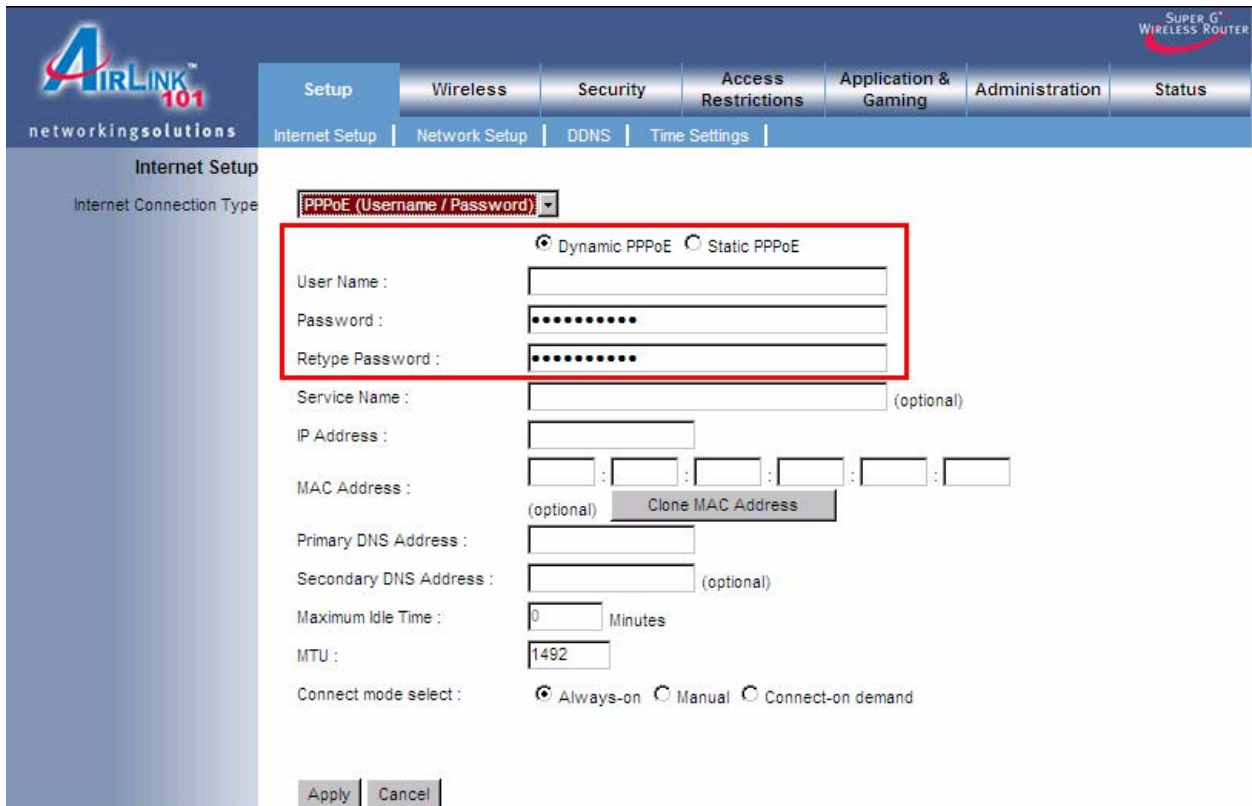
## DSL

For DSL users, follow the steps below to configure the router.

**Step 1** Select **PPPoE** from the drop-down menu.



**Step 2** Enter your username and password provided by your ISP.



**Note:** Depending on the ISP, you may need to include the domain name with your username.

**Example:**      **username@sbcglobal.net**

**Step 3** Click **Apply** and **OK** to save the setting.

If you have trouble connecting to the Internet, please refer to the **Troubleshooting** section at the end of this manual.

## 5. Connecting to the Router Wirelessly

Below are the default wireless settings of the router. You must configure your wireless network card to the same settings in order to establish a wireless connection to the router. Please refer to your wireless network card's manual on how to configure these settings.

SSID: **default**

Operating Mode: **Infrastructure**

Authentication: **Open System**

Channel #: **6**

WEP: **disabled**

If you want to change the router's wireless settings, log in to the router and select the **Wireless** tab. Be sure to click **Apply** and **OK** to save the setting.



The screenshot shows the web interface of an AirLink 101 router. The top navigation bar includes tabs for Setup, **Wireless** (highlighted with a red box), Security, Access Restrictions, Application & Gaming, Administration, and Status. Below this, there are sub-tabs for Basic Wireless Settings, Wireless Security, Wireless MAC Filter, and Advanced Wireless Settings. The main content area is titled 'Wireless Network' and 'Wireless-G Settings'. It contains the following settings:

Mode:	Mixed(g/b)
Network Name (SSID):	default
Channel:	6-2.437GHz
SSID Broadcast:	Enable

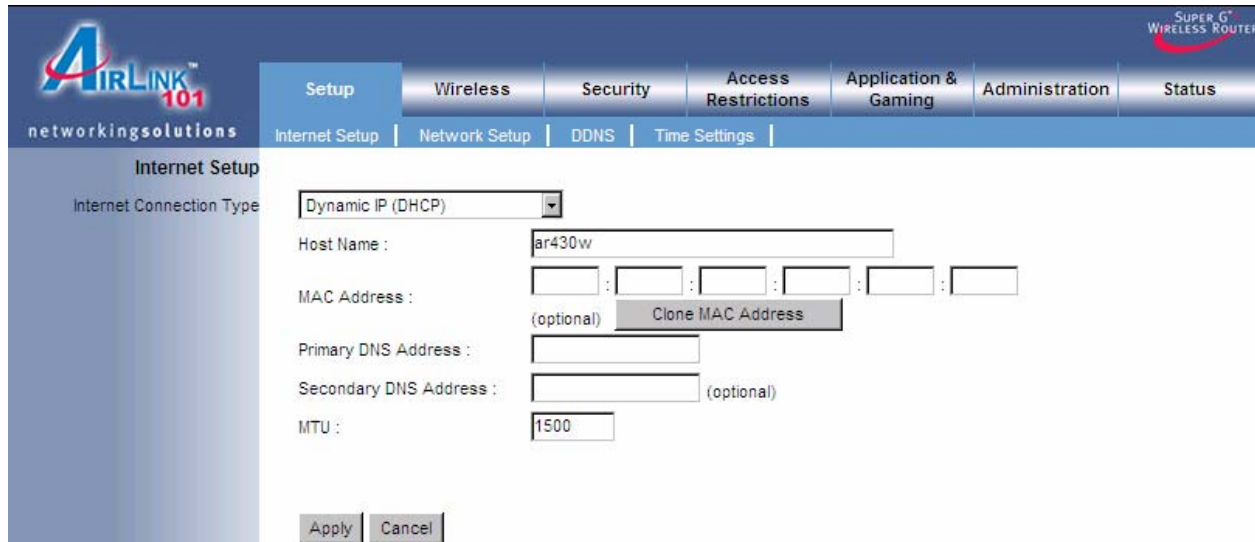
At the bottom of the settings area, there are two buttons: 'Apply' and 'Cancel'.

## 6. Web Configuration Utility

This router has a built-in web configuration utility that you can use to configure the router's settings. Simply log in to the router using your computer's web browser.

### 6.1 Setup

#### 6.1.1 Internet Setup



The screenshot displays the web configuration utility interface for the AIRLINK 101 router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The Setup tab is active, and the Internet Setup sub-tab is selected. The main content area shows the Internet Setup configuration page with the following fields:

- Internet Connection Type: Dynamic IP (DHCP)
- Host Name: ar430w
- MAC Address: (optional) Clone MAC Address
- Primary DNS Address: (optional)
- Secondary DNS Address: (optional)
- MTU: 1500

At the bottom of the form, there are Apply and Cancel buttons.

This is the default screen when you log in to the router's web configuration utility. You can setup your Internet connection here.

## 6.1.2 Network Setup

Network Setup allows manually configuring TCP/IP and DHCP settings.

The screenshot shows the 'Network Setup' page of the Airlink 101 router. The page is divided into several sections: Router IP, DHCP Server Settings, and Static DHCP Settings. The Router IP section includes fields for IP Address (192.168.1.1), Subnet Mask (255.255.255.0), Local Domain Name, and Enable DNS Relay (Enabled). The DHCP Server Settings section includes a DHCP Server dropdown (Enabled), Starting IP Address (192.168.1.100), Ending IP Address (192.168.1.199), and Lease Time (10080 minutes). The Static DHCP Settings section is highlighted with a red box and includes a DHCP Entries dropdown (1), a Delete This Entry button, a Static DHCP List button, an Enable dropdown (Disabled), a Name field with a Computer Name dropdown, an IP Address field (192.168.1.), and a MAC Address field with a Copy Your PC's MAC Address button. At the bottom of the page are Apply and Cancel buttons.

### Assigning Static DHCP Settings

**Step 1** Select **Enabled** in the DHCP Server drop-down menu

**Step 2** Select a computer name from the drop-down menu or enter a name associated with this Static IP Address

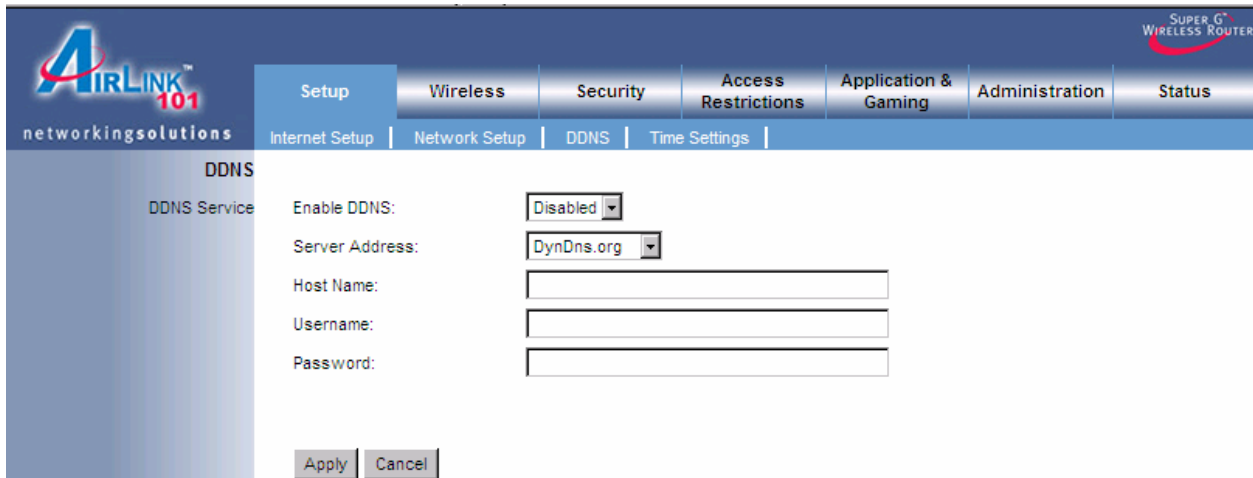
**Step 3** Enter the Static IP Address in the **IP Address** field

**Step 4** Enter the MAC address of the corresponding computer in the **MAC Address** field

Remember to click **Apply** and **OK** to save your changes.

### 6.1.3 DDNS

Dynamic DNS (DDNS) allows any user who wishes to access your server to reach it by a registered DNS name instead of an IP address. Before you enable **DDNS**, you need to register an account with one of the DDNS providers listed in the drop-down menu.



The screenshot shows the DDNS configuration page in the AIRLINK 101 router's web interface. The page has a blue header with the AIRLINK 101 logo and the text "networkingsolutions". The header also includes a navigation menu with tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. Below the header, there is a sub-menu with tabs for Internet Setup, Network Setup, DDNS, and Time Settings. The DDNS configuration page is titled "DDNS" and contains the following fields:

DDNS Service	Enable DDNS:	Disabled
	Server Address:	DynDns.org
	Host Name:	
	Username:	
	Password:	

At the bottom of the page, there are two buttons: "Apply" and "Cancel".

To Enable DDNS, select the DDNS provider you have registered with and enter the required fields. Click **Apply** and **OK** to save the setting.

## 6.1.4 Time Settings

Time Settings allow you to configure the router clock.

The screenshot displays the 'Time Settings' page in the AIRLINK 101 web interface. The page is titled 'Time Settings' and includes a navigation menu with options: Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The 'Time Settings' section is active, showing the following configuration options:

- Device Time:** Jan 01, 2000 00:05:05
- Synchronize the device's clock:**  Automatic (Simple Network Time Protocol),  Your computer's clock,  Manual (Enter your own settings)
- Time Zone:** (GMT-08:00) Pacific Time (US & Canada); Tijuana
- Daylight Saving:**
- Get the time automatically via Network Time Protocol(NTP):** NTP Server: clock.isc.org, Interval: 24 hrs
- Time:** Year: 2005, Month: 01, Day: 01, Hour: 00, Minute: 05, Second: 05

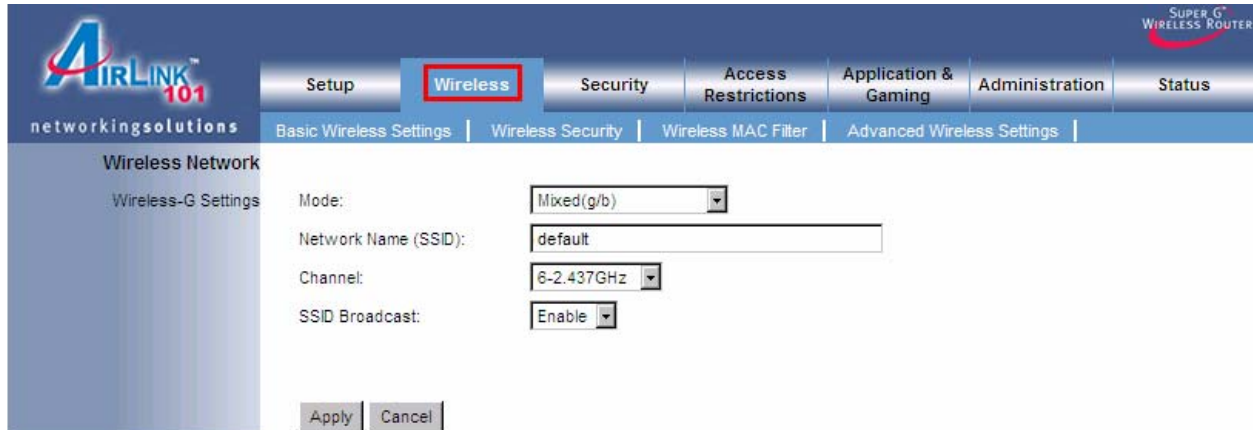
Buttons for 'Apply' and 'Cancel' are located at the bottom of the page.

Click **Apply** and **OK** to save the setting.

## 6.2. Wireless

### 6.2.1 Basic Wireless Settings

You can configure the router's basic wireless settings on this screen.



The screenshot shows the web interface of an AirLink 101 Super G Wireless Router. The top navigation bar includes 'Setup', 'Wireless' (highlighted with a red box), 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. Below this, a sub-menu shows 'Basic Wireless Settings', 'Wireless Security', 'Wireless MAC Filter', and 'Advanced Wireless Settings'. The main content area is titled 'Wireless Network' and 'Wireless-G Settings'. It contains four configuration fields: 'Mode' (set to 'Mixed(g/b)'), 'Network Name (SSID)' (set to 'default'), 'Channel' (set to '6-2.437GHz'), and 'SSID Broadcast' (set to 'Enable'). 'Apply' and 'Cancel' buttons are at the bottom.

**Mode:** Choose from Super G, Super G without Turbo, Wireless 11g Only, Mixed (g/b), Wireless 11b Only, or Disabled to stop wireless function.

**Network Name (SSID):** You can change the router's SSID in this field. Once you have changed the SSID, your network clients need to re-connect themselves using the new SSID.

**Channel:** Select the desired channel. All the network clients need to be using the same channel.

**SSID Broadcast:** Choose to enable or disable the broadcasting of your SSID.



## 6.2.2 Wireless Security

You can configure wireless security such as WEP or WPA encryption on this screen.

**Note:** It is recommended that you use WPA-PSK or WPA2-PSK encryption over WEP if your wireless clients support it. All of the wireless clients must use the same security settings in order to connect to the router.

### WEP

To enable WEP, select **WEP** from the **Security Mode**.

The screenshot shows the configuration interface for a Super G Wireless Router. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The 'Security Mode' is set to 'WEP'. The 'Authentication Type' is 'Open System', 'Encrypt Length' is '64Bits', and 'Key Type' is 'HEX'. There are four input fields for WEP keys and a 'Default Key' dropdown set to '1'. Below this, the 'Wi-Fi Protected Setup' section is visible, with 'Enable' checked and 'Current PIN' as '40892506'. There are buttons for 'Generate New PIN', 'Reset PIN to Default', 'Reset to Unconfigured', and 'Add Wireless Device Wizard'. 'Apply' and 'Cancel' buttons are at the bottom.

**Authentication Type:** Choose Open System or Shared Key.

**Encryption:** Choose from **64 bits** or **128 bits**

**Key Type:** Choose HEX or ASCII

**WEP Key 1 – 4:** Manually assign a password for each key. If you selected **64 bits** encryption, enter **10** HEX characters (0-F) for each key. If you selected **128 bits** encryption, enter **26** HEX characters (0-F) for each key.

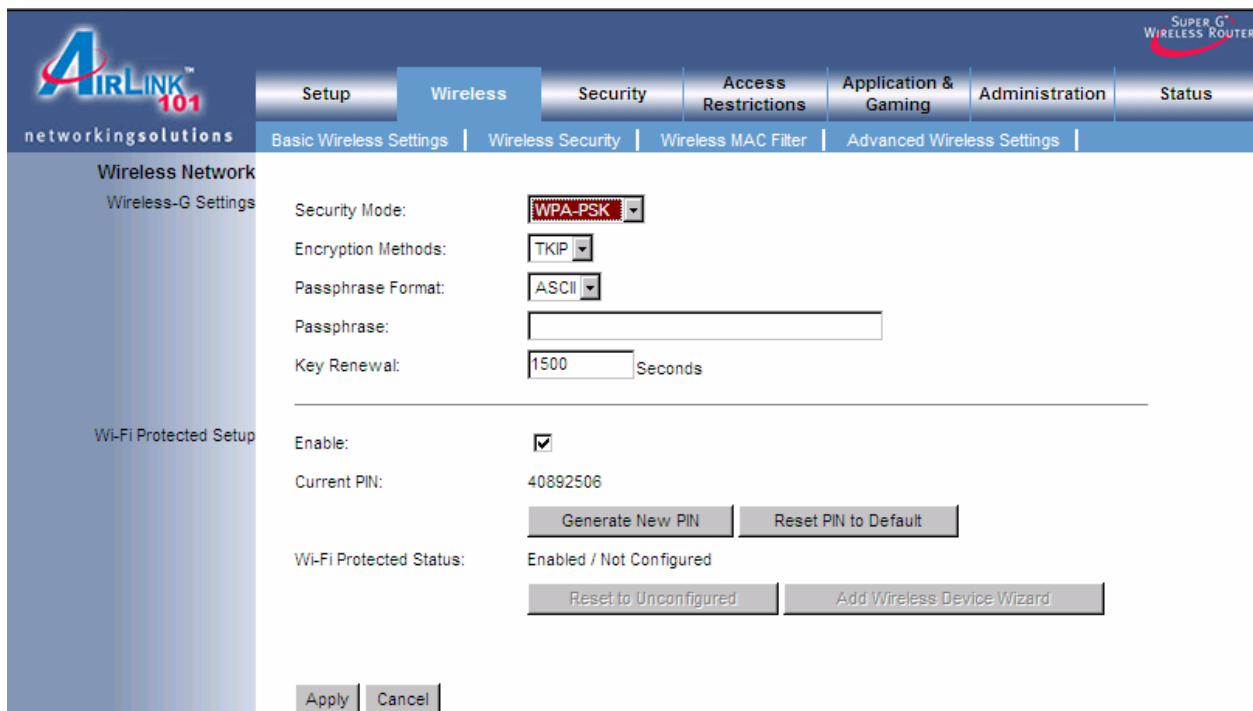
**Note:** HEX number is a number from 0 to 9 and a letter from A to F. ASCII is any number or letter.

**Default Key:** Select a key to be the active key.

Click **Apply** and **OK** to save the setting.

## WPA

To enable WPA, select **WPA-PSK** or **WPA2-PSK** from the **Security Mode**.



The screenshot shows the configuration interface for a Super G Wireless Router. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The 'Security Mode' is set to 'WPA-PSK'. Other settings include 'Encryption Methods' set to 'TKIP', 'Passphrase Format' set to 'ASCII', and 'Key Renewal' set to '1500' seconds. The 'Wi-Fi Protected Setup' section is also visible, with 'Enable' checked and 'Current PIN' set to '40892506'. Buttons for 'Apply' and 'Cancel' are at the bottom.

Section	Field	Value
Wireless-G Settings	Security Mode	WPA-PSK
	Encryption Methods	TKIP
	Passphrase Format	ASCII
	Passphrase	
	Key Renewal	1500 Seconds
Wi-Fi Protected Setup	Enable	<input checked="" type="checkbox"/>
	Current PIN	40892506
	Wi-Fi Protected Status	Enabled / Not Configured
	Buttons	Generate New PIN, Reset PIN to Default, Reset to Unconfigured, Add Wireless Device Wizard

**Encryption Methods:** Select either **TKIP** or **AES** as the encryption method.

**Passphrase:** Enter a passphrase between 8 to 63 characters long.

**Key Renewal:** Enter the desired key renewal time in seconds.

Click **Apply** and **OK** to save the setting.

## WPA with RADIUS

If you are using a RADIUS server in your network for authentication, you may choose **WPA** or **WPA2** from the **Security Mode**.

The screenshot shows the configuration interface for an AIRLINK 101 wireless router. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The 'Security Mode' is set to 'WPA' and 'Encryption Methods' is set to 'TKIP'. The 'RADIUS Server' field is empty, and the 'RADIUS Port' is set to '1812'. The 'Shared Key' field is empty. The 'Key Renewal' is set to '1500' seconds. The 'Wi-Fi Protected Setup' section is expanded, showing 'Enable' checked, 'Current PIN' as '40892506', and buttons for 'Generate New PIN' and 'Reset PIN to Default'. The 'Wi-Fi Protected Status' is 'Enabled / Not Configured', with buttons for 'Reset to Unconfigured' and 'Add Wireless Device Wizard'. 'Apply' and 'Cancel' buttons are at the bottom.

**Encryption Methods:** Select either **TKIP** or **AES** as the encryption method.

**RADIUS Server:** Enter the IP Address of your RADIUS server.

**RADIUS Port:** Enter the port number of your RADIUS server.

**Shared Key:** Enter the shared key.

**Key Renewal:** Enter the desired key renewal time in seconds.

Click **Apply** and **OK** to save the setting.

### WiFi Protected Setup

This is an easier way to setup the wireless security for all your wireless clients. This security feature only works when your wireless adapter supports this WPS PIN feature. You will have to enter the **Current PIN** at your wireless client side to connect to this router.

Check/Uncheck the **Enable** box to enable or disable this function

### 6.2.3 Wireless MAC Filter

You can restrict certain wireless clients from accessing the router by specifying their MAC address and enabling access restriction.

The screenshot displays the configuration interface for the Wireless MAC Filter. The top navigation bar includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. The 'Wireless' menu is expanded to show 'Basic Wireless Settings', 'Wireless Security', 'Wireless MAC Filter', and 'Advanced Wireless Settings'. The 'Wireless MAC Filter' section is selected, showing a dropdown menu for 'Access Restrictions' currently set to 'Disabled'. Below this is a 'Wireless Client List' table with 20 rows, each containing a MAC address field (MAC 01 to MAC 20). At the bottom are 'Apply' and 'Cancel' buttons.

Wireless Client List			
MAC 01:	<input type="text"/>	MAC 02:	<input type="text"/>
MAC 03:	<input type="text"/>	MAC 04:	<input type="text"/>
MAC 05:	<input type="text"/>	MAC 06:	<input type="text"/>
MAC 07:	<input type="text"/>	MAC 08:	<input type="text"/>
MAC 09:	<input type="text"/>	MAC 10:	<input type="text"/>
MAC 11:	<input type="text"/>	MAC 12:	<input type="text"/>
MAC 13:	<input type="text"/>	MAC 14:	<input type="text"/>
MAC 15:	<input type="text"/>	MAC 16:	<input type="text"/>
MAC 17:	<input type="text"/>	MAC 18:	<input type="text"/>
MAC 19:	<input type="text"/>	MAC 20:	<input type="text"/>

Select **Enabled** from the drop-down menu and choose whether the specified wireless clients will be prevented or permitted to access the wireless network. Enter their MAC address in the fields below and click **Apply** and **OK** to save the setting.

## 6.2.4 Advanced Wireless Settings

You can configure various advanced wireless settings on this screen.

The screenshot shows the 'Advanced Wireless Settings' page for an AirLink 101 router. The page has a blue header with the 'AIRLINK 101' logo and 'networkingsolutions' text. A navigation bar includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. Below this, a sub-menu shows 'Basic Wireless Settings', 'Wireless Security', 'Wireless MAC Filter', and 'Advanced Wireless Settings'. The main content area is titled 'Advanced Wireless Settings' and contains the following settings:

Transmission Rate:	<input type="text" value="Auto"/>
Transmission Power:	<input type="text" value="Full"/>
CTS Protection Mode:	<input type="text" value="Disable"/>
Beacon Interval:	<input type="text" value="100"/> (Default: 100 Milliseconds, Range: 0 ~ 2346)
DTIM Interval:	<input type="text" value="1"/> (Default: 1, Range: 1 ~ 255)
Fragmentation Threshold:	<input type="text" value="2346"/> (Default: 2346, Range: 256 ~ 2346, even)
RTS Threshold:	<input type="text" value="2346"/> (Default: 2346, Range: 0 ~ 2346)

At the bottom of the settings area are 'Apply' and 'Cancel' buttons.

**Transmission Rate:** Select from Auto, 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps.

**Transmission Power:** Select from full, half, quarter, eighth, min.

**CTS Protection Mode:** Select from disable, enable, auto.

**Beacon Interval:** Enter a value from the valid range of 0 to 2346. The default value is 100 Milliseconds

**DTIM Interval:** Enter a value from the valid range of 0 to 255. The default value is 1.

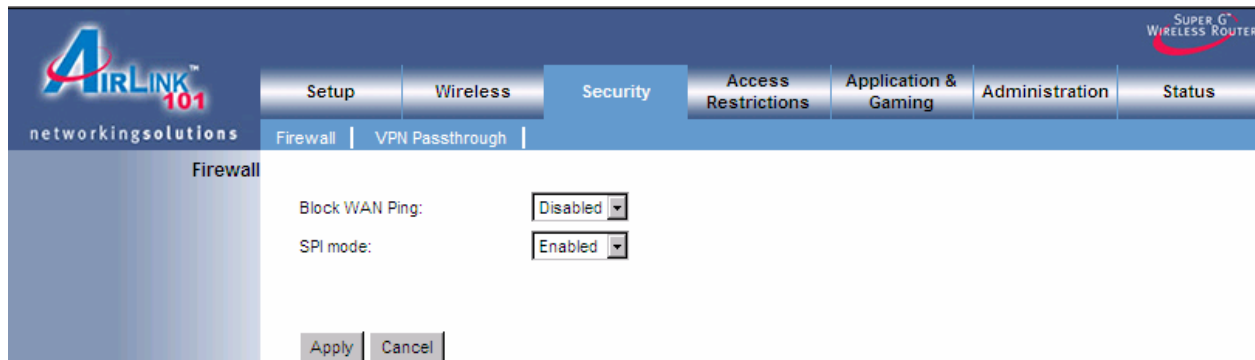
**Fragmentation Threshold:** Enter an even number from 256 to 2346. The default value is 2346.

**RTS Threshold:** Enter a value from the valid range of 0 to 2346. The default value is 2346.

Click **Apply** and **OK** to save the setting.

## 6.3 Security

### 6.3.1 Firewall



**Block WAN Ping:** Enable or Disable.

**SPI Mode:** Select to enable or disable Stateful Packet Inspection.

Click **Apply** and **OK** to save the setting.

### 6.3.2 VPN Passthrough

You can select to enable or disable the passthrough of **IPSec**, **L2TP**, and/or **PPTP**.



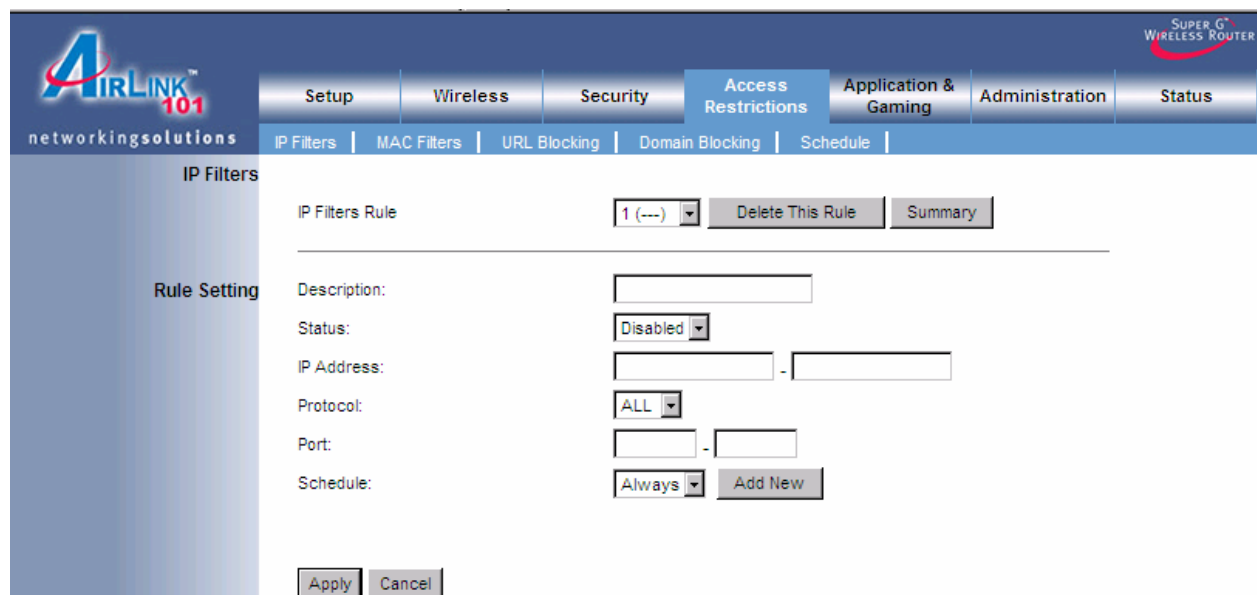
Click **Apply** and **OK** to save the setting.

## 6.4 Access Restrictions

You can setup policies that deny or allow specific clients to access the Internet based on IP address, MAC address, URL, Domain or a specified time.

### 6.4.1 IP Filters

Set up policy based on IP addresses.



The screenshot shows the configuration interface for the Airlink 101 router. The top navigation bar includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. Under 'Access Restrictions', there are sub-tabs for 'IP Filters', 'MAC Filters', 'URL Blocking', 'Domain Blocking', and 'Schedule'. The 'IP Filters' sub-tab is active, showing a list of rules with '1' selected. Below the list is the 'Rule Setting' section with the following fields:

- Description:** A text input field.
- Status:** A dropdown menu currently set to 'Disabled'.
- IP Address:** Two text input fields separated by a hyphen, representing a range of IP addresses.
- Protocol:** A dropdown menu currently set to 'ALL'.
- Port:** Two text input fields separated by a hyphen, representing a range of ports.
- Schedule:** A dropdown menu currently set to 'Always' and an 'Add New' button.

At the bottom of the rule setting section are 'Apply' and 'Cancel' buttons. At the top of the rule list are 'Delete This Rule' and 'Summary' buttons.

**Description:** Enter a name for the policy.

**Status:** Choose to enable or disable the selected policy.

**IP Addresses:** Specify client by a range of IP addresses

**Protocol:** Select protocol from All, TCP, UDP or ICMP

**Port:** Enter a range of ports.

**Schedule:** Enter a schedule time

To view all the policies, click the **Summary** button.

## 6.4.2 MAC Filters

The screenshot shows the configuration interface for MAC Filters on an AIRLINK 101 router. The navigation bar includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. Under 'Access Restrictions', there are sub-menus for 'IP Filters', 'MAC Filters', 'URL Blocking', 'Domain Blocking', and 'Schedule'. The 'MAC Filters' section is active, showing a status dropdown set to 'Disabled'. A 'MAC Filter Rule' dropdown is set to '1 (---)', with 'Delete This Rule' and 'Summary' buttons. The form includes fields for 'Enter Description Name:', 'MAC Address:' (six individual boxes), 'DHCP Client:' (dropdown with 'Clone' button), and 'Schedule:' (dropdown set to 'Always' with 'Add New' button). 'Apply' and 'Cancel' buttons are at the bottom.

**Enter Description Name:** Enter a name for the policy.

**MAC Address:** Enter a MAC address

**DHCP Client:** Select DHCP client on your network.

To view all the policies, click the **Summary** button.



### 6.4.3 URL Blocking

You can block the specified clients from accessing certain websites by URL

Enter the URL or the Keyword you wish to block.

Click **Apply** and **OK** to save the setting.

The screenshot shows the web interface for an AIRLINK 101 wireless router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions (selected), Application & Gaming, Administration, and Status. Under the Access Restrictions tab, there are sub-tabs for IP Filters, MAC Filters, URL Blocking (selected), Domain Blocking, and Schedule. The main content area is titled "URL Blocking" and "Website Blocking by URL Address". It features a dropdown menu set to "Disabled" and a section labeled "Configure URL Blocking below:" containing ten rows, each with a text input field for a URL (URL 01 to URL 10), a dropdown menu set to "Always", and an "Add New" button. At the bottom, there are "Apply" and "Cancel" buttons.

## 6.4.4 Domain Blocking

Specified the domains to deny or allow internet access.

The screenshot shows the web interface for the Airlink 101 Super G Wireless Router. The navigation menu includes Setup, Wireless, Security, Access Restrictions (selected), Application & Gaming, Administration, and Status. Under Access Restrictions, there are sub-menus for IP Filters, MAC Filters, URL Blocking, Domain Blocking (selected), and Schedule. The main content area is titled "Domain Blocking" and contains the following configuration options:

Configure Domain Blocking below:  
Disabled

Domain 01:	<input type="text"/>	Always	Add New
Domain 02:	<input type="text"/>	Always	Add New
Domain 03:	<input type="text"/>	Always	Add New
Domain 04:	<input type="text"/>	Always	Add New
Domain 05:	<input type="text"/>	Always	Add New
Domain 06:	<input type="text"/>	Always	Add New
Domain 07:	<input type="text"/>	Always	Add New
Domain 08:	<input type="text"/>	Always	Add New
Domain 09:	<input type="text"/>	Always	Add New
Domain 10:	<input type="text"/>	Always	Add New

At the bottom of the configuration area, there are "Apply" and "Cancel" buttons.

## 6.4.5 Schedule

Select to a time range in which the specified clients to access the Internet by **Day** and **Time**.

The screenshot displays the configuration interface for the AIRLINK 101 router. The top navigation bar includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. Under 'Access Restrictions', the 'Schedule' option is selected. The 'Schedule' configuration page features a sidebar with the title 'Schedule' and a main content area. At the top of the main area, there is a dropdown menu showing '1 (---)', a 'Delete This Schedule' button, and a 'Summary' button. Below this, the 'Name' field is empty. The 'Day(s)' section has two radio buttons: 'All Week' (unselected) and 'Select Day(s)' (selected). Under 'Select Day(s)', there are checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, and Sat, all of which are currently unchecked. The 'All Day - 24 hrs' checkbox is also unchecked. The 'Start Time' and 'End Time' fields are both empty, each followed by a colon, a dropdown menu set to 'AM', and the text '(hour:minute, 12 hour time)'. At the bottom of the form, there are 'Apply' and 'Cancel' buttons.

## 6.5 Applications & Gaming

### 6.5.1 Port Range Forwarding

If you want to host ftp server or online gaming, you must open up ports on the router. This page allows you to setup port forwarding for the specified applications.

Before using forwarding, you should assign static IP addresses to the designated PCs.

Port Range Forwarding

Application Name

None

None

None

None

None

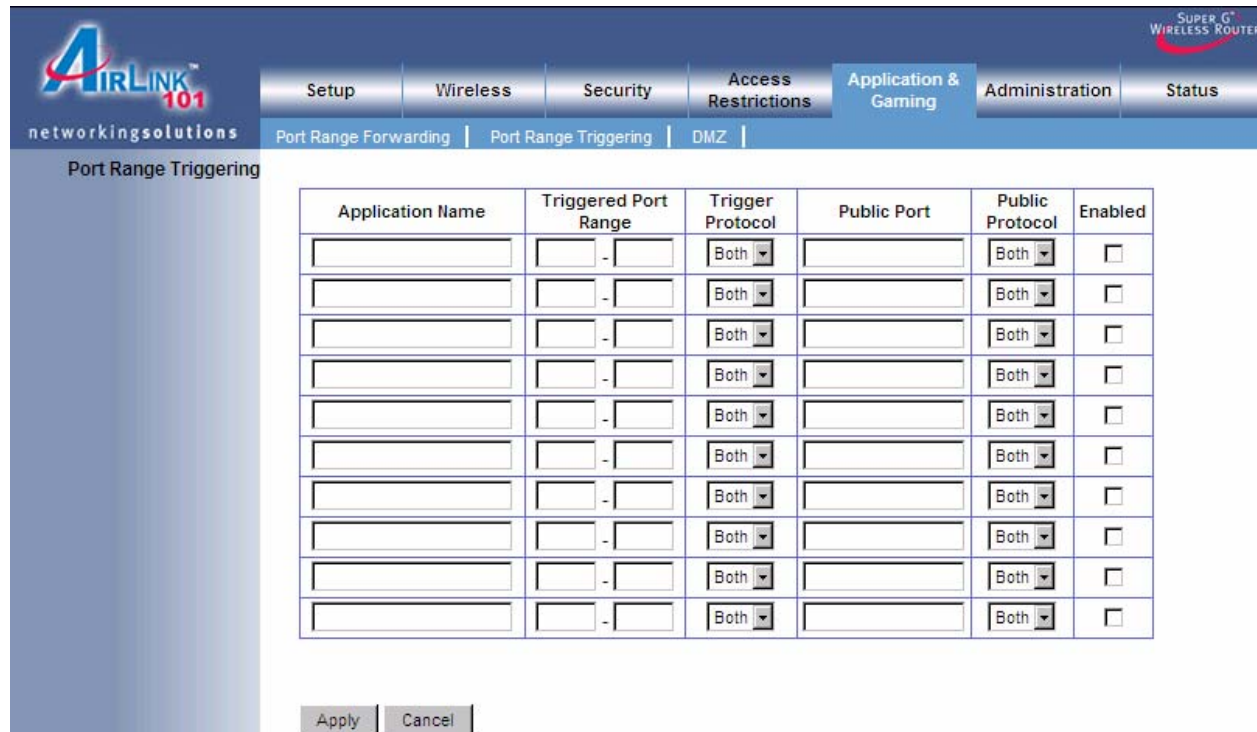
Start ~ End Port	Protocol	To IP Address	Enabled	Schedule
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always

Apply Cancel

Click **Apply** and **OK** to save the setting.

## 6.5.2 Port Range Triggering

Port triggering allows the router to keep track of outgoing data for specific port numbers. The router remembers which computer sends out what data, so when the requested data returns through the router, the data is sent back to the proper computer by way of IP address and port mapping rules.



The screenshot shows the configuration interface for Port Range Triggering on an AirLink 101 router. The interface includes a navigation menu at the top with options like Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The 'Application & Gaming' section is active, and the 'Port Range Triggering' sub-section is selected. Below the navigation, there is a table for configuring port triggering rules. The table has six columns: Application Name, Triggered Port Range, Trigger Protocol, Public Port, Public Protocol, and Enabled. There are ten rows in the table, each with empty input fields for the application name, port range, and public port, and a dropdown menu for the trigger protocol (set to 'Both'). The 'Enabled' column contains unchecked checkboxes. At the bottom of the table, there are 'Apply' and 'Cancel' buttons.

Application Name	Triggered Port Range	Trigger Protocol	Public Port	Public Protocol	Enabled
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>
<input type="text"/>	<input type="text"/> - <input type="text"/>	Both	<input type="text"/>	Both	<input type="checkbox"/>

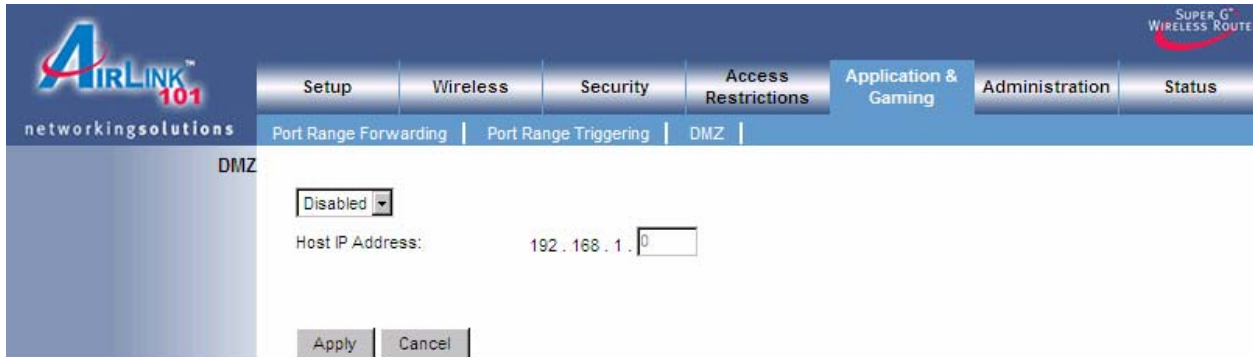
Apply Cancel

Click **Apply** and **OK** to save the setting.

### 6.5.3 DMZ

DMZ (De-Militarized Zone) Host is a host without the protection of the router's firewall. It allows a computer to be exposed to unrestricted two-way communication with the Internet. You should only use this feature when the Port Forwarding function fails to make an application work.

**Warning:** Setting your computer as a DMZ host exposes it to various security vulnerabilities. This feature should be used only when needed.



**DMZ:** Select to enable or disable DMZ.

**Host IP Address:** Specify the host IP address.

**Note:** Any DMZ host should have a new static IP address assigned to it because its IP address may change when using the DHCP function.

Click **Apply** and **OK** to save the setting.

## 6.6 Administration

### 6.6.1 Management

The Management screen allows you to change the router's login password as well as other administrative settings.

The screenshot shows the 'Administration' section of the Airlink 101 router's web interface. The page has a blue header with the 'AIRLINK 101' logo and 'networkingsolutions' text. The navigation menu includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration' (selected), and 'Status'. Below the navigation, there are sub-menus: 'Management', 'Log', 'Diagnostics', 'Factory Defaults', 'Firmware Upgrade', and 'Restart'. The main content area is titled 'Management' and contains several sections:

- Router Password:** Two text input fields for 'Router Password:' and 'Re-enter to Confirm:', both containing six dots.
- Remote Router Access:** A 'Remote Management:' dropdown menu set to 'Disabled'. Below it, an 'IP Address:' text input field with a note '( \* means any IP Address.)' and a 'Port:' dropdown menu set to '8080'.
- UPnP:** A 'UPnP:' dropdown menu set to 'Enabled'.
- Backup the Configuration File:** A 'Backup' button.
- Restore the Configuration File:** A 'File Path:' text input field, a 'Browse...' button, and a 'Restore' button.

At the bottom of the form are 'Apply' and 'Cancel' buttons.

**Router Password:** Set the router's login password.

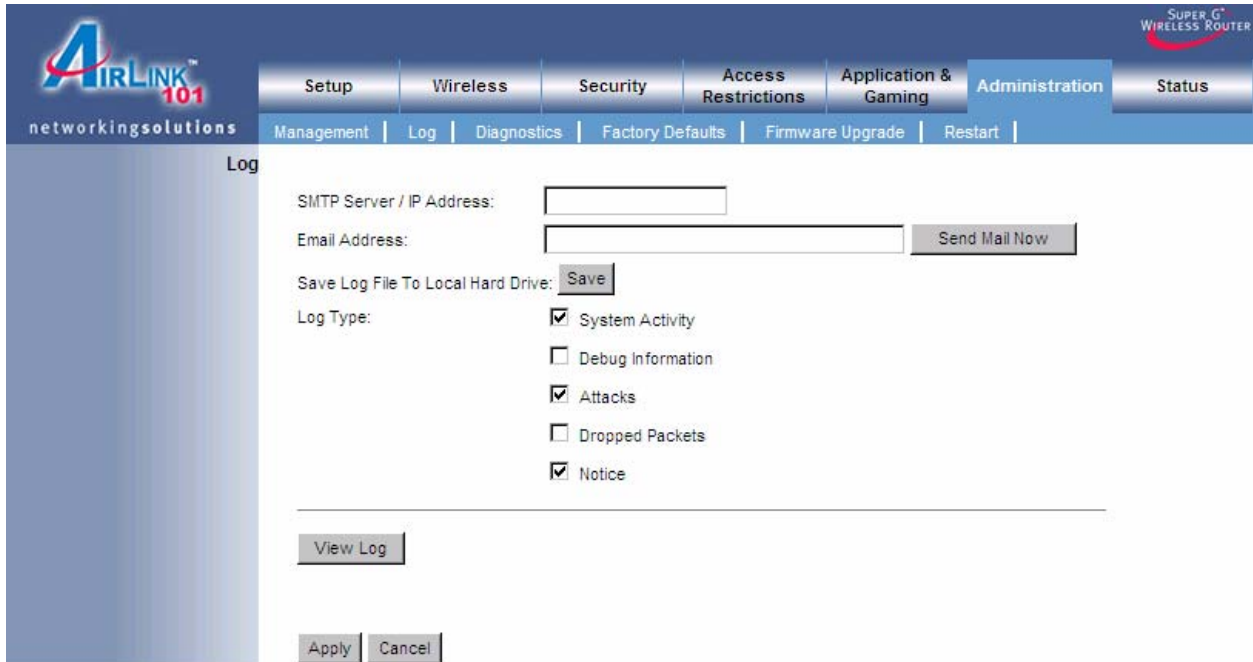
**Remote Router Access:** Select to enable or disable remote management/upgrade of the router. You can allow remote management from any IP Address or a specified IP Address as well as the port number.

**UPnP:** Universal Plug and Play (UPnP) allows Windows Me and XP to automatically configure the router for various Internet applications, such as gaming and videoconferencing.

**Backup and Restore:** You can choose to backup the router's settings so that you don't have to manually configure the settings again if you reset the router to factory default.

## 6.6.2 Log

You can choose to enable or disable logging of your network activity on this screen.



The screenshot shows the 'Log' configuration page in the Airlink 101 router's web interface. The page has a blue header with the 'Airlink 101' logo and 'networkingsolutions' text. The navigation menu includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration' (selected), and 'Status'. Below the navigation menu, there are sub-menus: 'Management', 'Log' (selected), 'Diagnostics', 'Factory Defaults', 'Firmware Upgrade', and 'Restart'. The main content area is titled 'Log' and contains the following fields and options:

- SMTP Server / IP Address: [Text Input Field]
- Email Address: [Text Input Field] [Send Mail Now Button]
- Save Log File To Local Hard Drive: [Save Button]
- Log Type:
  - System Activity
  - Debug Information
  - Attacks
  - Dropped Packets
  - Notice

At the bottom of the form, there are three buttons: 'View Log', 'Apply', and 'Cancel'.

**Email Address:** Specify an email address to send the log file.

**Send Mail Now:** Send the log file to the specified the email address.

**Save Log File to Local Hard Drive:** Take the log in router memory and store it into a log file.

**Log Type:** Specify the information you want to capture. They include System Activity, Debug Information, Attacks, Dropped Packets, and Notice.

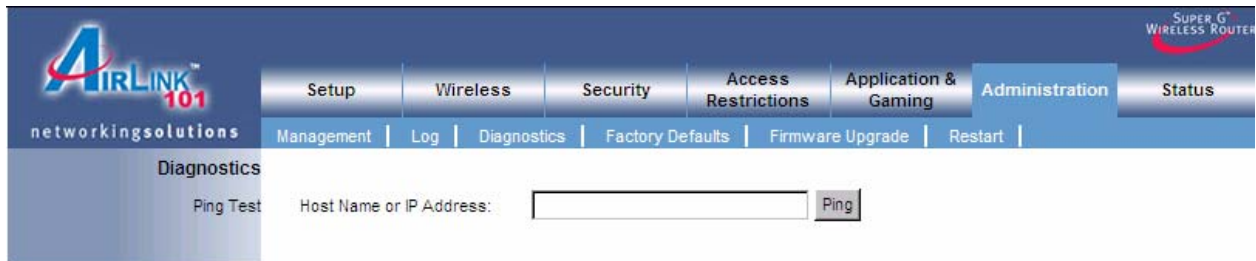
**View Log:** Allow you to see logged information related to System Activity, Debug Information, Attacks, Dropped Packets, and Notice.

Click **Apply** and **OK** to save the setting.



### 6.6.3 Diagnostics

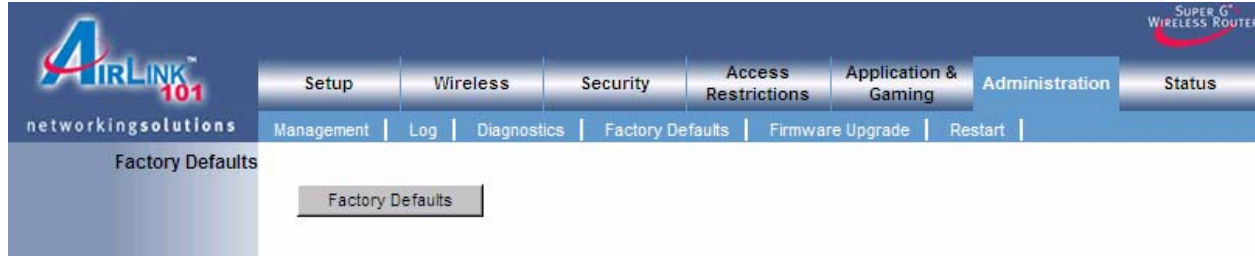
The Diagnostics screen allows you to perform **Ping** tests.



**Ping Test:** Enter the IP or URL Address you wish to ping and click **Ping**.

## 6.6.4 Factory Defaults

The Factory Defaults screen allows you to set all the router's settings to the factory default.



Click on the **Factory Defaults** button to restore all the settings to default.

## 6.6.5 Firmware Upgrade

The Firmware Upgrade screen allows you to upgrade the router's firmware.



You may download the new firmware from the Airlink101 website [www.airlink101.com](http://www.airlink101.com)

Click on **Browse** to browse to the new firmware, and click **Apply**.

**Note:** Do not power off the router during the firmware upgrading, otherwise your router may be damaged permanently.

### 6.6.6 Restart

The Restart page allows you to restart the router without restoring the settings to factory default.

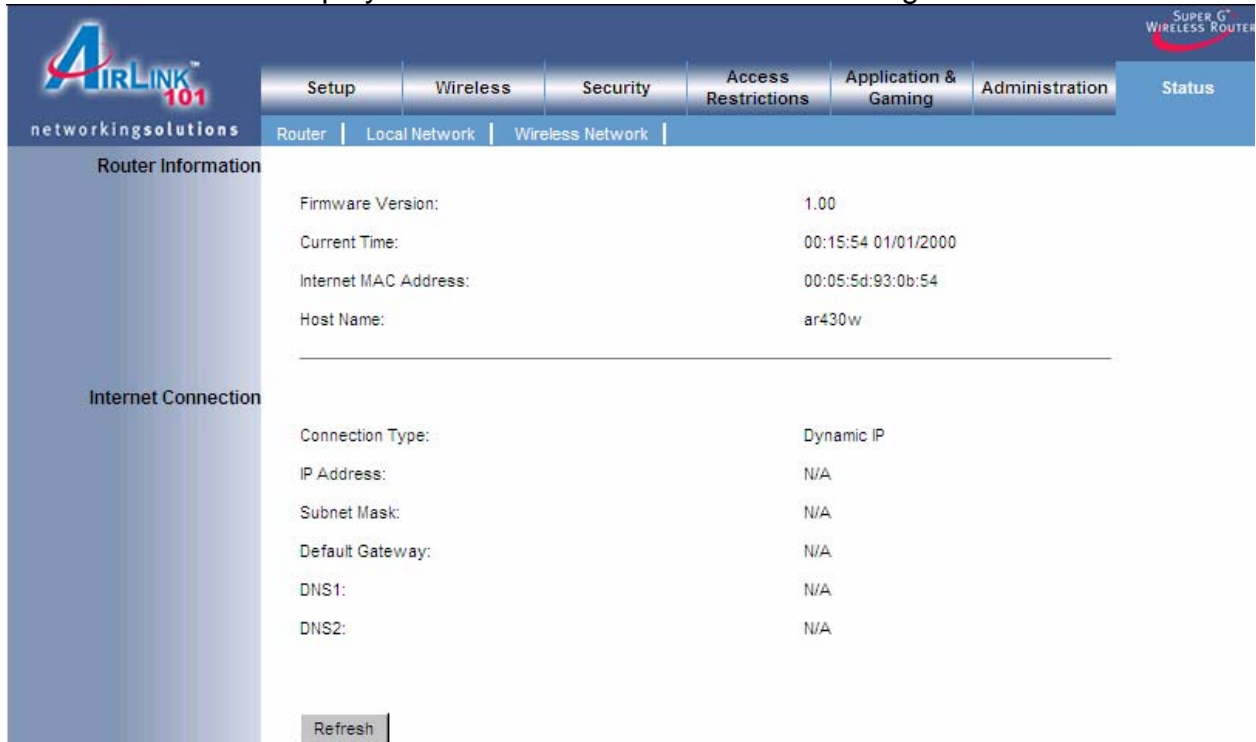


Click on the **Restart** button to restart the router.

## 6.7 Status

### 6.7.1 Router

The Router screen displays various status of the router including the firmware version.



The screenshot shows the web interface of an AirLink 101 router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The Status tab is selected. Below the navigation bar, there are sub-tabs for Router, Local Network, and Wireless Network. The main content area is divided into two sections: Router Information and Internet Connection. The Router Information section displays the following details:

Firmware Version:	1.00
Current Time:	00:15:54 01/01/2000
Internet MAC Address:	00:05:5d:93:0b:54
Host Name:	ar430w

The Internet Connection section displays the following details:

Connection Type:	Dynamic IP
IP Address:	N/A
Subnet Mask:	N/A
Default Gateway:	N/A
DNS1:	N/A
DNS2:	N/A

At the bottom of the Internet Connection section, there is a Refresh button.

Click on the **Refresh** button to reload the screen.

## 6.7.2 Local Network

The Local Network screen displays various status about your Local Area Network.

The screenshot displays the 'Local Network' configuration page of an AIRLINK 101 router. The page is divided into two main sections: 'Local Network' and 'DHCP Server'. The 'Local Network' section shows the following settings:

Local MAC Address:	00:05:5d:93:0b:53
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0

The 'DHCP Server' section shows the following settings:

DHCP Server:	Enabled
Start IP Address:	192.168.1.100
End IP Address:	192.168.1.199

At the bottom of the DHCP Server section, there is a button labeled 'DHCP Client Table'.

Click on the **DHCP Client Table** to display a list of DHCP clients in your network.

### 6.7.3 Wireless Network

The Wireless Network screen displays various status about your wireless network.

The screenshot shows the 'Wireless Network' configuration page for an AirLink 101 Super G+ Wireless Router. The page has a blue header with the 'AIRLINK 101' logo on the left and 'SUPER G+ WIRELESS ROUTER' on the right. Below the logo is the text 'networkingsolutions'. The main navigation bar includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. The 'Wireless' tab is selected, and the sub-menu shows 'Router', 'Local Network', and 'Wireless Network'. The 'Wireless Network' section is titled 'Wireless Network' and contains 'Wireless-G Information'. The information is displayed as follows:

MAC Address:	00:05:5d:93:0b:53
Mode:	Mixed(g/b)
Network Name (SSID):	airlink
Channel:	6
Security:	Disabled
SSID Broadcast:	Enabled

At the bottom of the information section, there is a button labeled 'Wireless Client List'.

## 7. Troubleshooting

If you have trouble connecting to the Internet, try the following steps.

**Step 1** Power off the Cable/DSL modem, router, and computer and wait for **5 minutes**.

**Step 2** Turn on the Cable/DSL modem and wait for the lights on the modem to settle down.

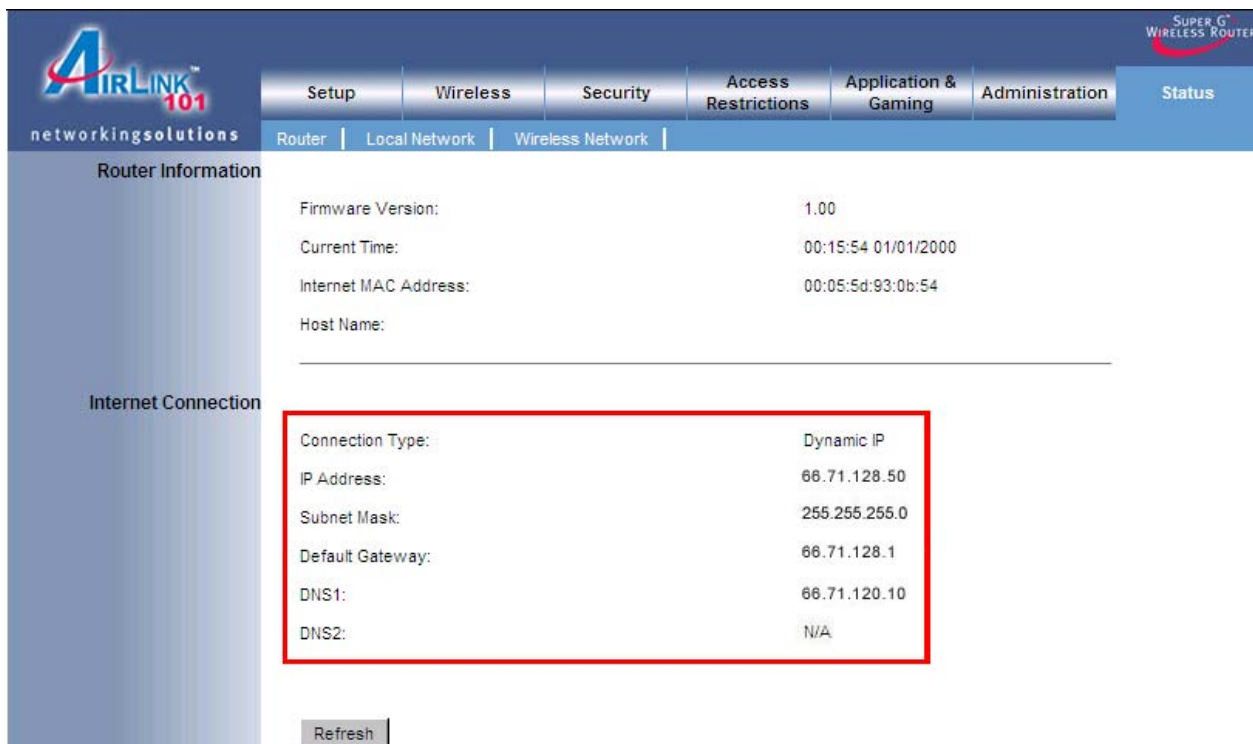
**Step 3** Turn on the router and wait for the lights on the router to settle down.

**Step 4** Turn on the computer.

**Step 5** Reconfigure the router as described in **Section 3**.

**Step 6** Log in to the router and select the **Status** tab.

**Step 7** Verify that the **IP Address**, **Default Gateway**, and at least one of the **DNS** fields have valid numbers assigned to them (instead of all 0's).



The screenshot shows the web interface of an AIRLINK 101 router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The Status tab is selected, and the 'Wireless Network' sub-tab is active. The main content area is divided into two sections: 'Router Information' and 'Internet Connection'. The 'Internet Connection' section contains a table of network parameters, which is highlighted with a red border. A 'Refresh' button is located below the table.

Parameter	Value
Connection Type:	Dynamic IP
IP Address:	66.71.128.50
Subnet Mask:	255.255.255.0
Default Gateway:	66.71.128.1
DNS1:	66.71.120.10
DNS2:	N/A

If each field has a valid number assigned, the router is connected to the Internet.



# Technical Support

E-mail: [support@airlink101.com](mailto:support@airlink101.com)

Toll Free: 1-888-746-3238

Web Site: [www.airlink101.com](http://www.airlink101.com)

\*Super G™ technology (108 Mbps) can only be obtained when using products with Atheros Super G™ chipset

\*Theoretical maximum wireless signal rate based on IEEE standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate.

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