



Dual Band Wireless N Router

Model # AR725W

User's Manual

Rev. 1.0

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1. Introduction

Thank you for purchasing Airlink101 Dual Band Wireless N Router. The AR725W Dual Band Wireless N Router provides switchable 2.4 and 5 GHz wireless frequency which allows more clean channels and less interference for your wireless network. A full range of security features such as WPA2-PSK, WPA-PSK, and WEP provide the highest level of wireless network security. The built-in Web Configuration Utility allows you to set up the router with an easy-to-use user interface.

You will be able to enjoy home entertainment with HD video streaming, VoIP and online gaming with the high wireless data rate of up to 300Mbps* when used with Airlink101® Dual Band Wireless N Adapter.

1.1 Package Contents

Before you begin the installation, please check the items of your package:

- Dual Band Wireless N Router
- Power Adapter
- Ethernet Cable (Cat.5)
- Manual CD
- Quick Installation Guide

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packaging materials in case you need to ship the unit in the future.

1.2 Features

- Built-in dual band (5 / 2.4GHz switchable) AP
- More channels, less interference — ideal for wireless congested area
- Highest wireless data rate of up to 300Mbps* with 802.11n draft 2.0
- WPS button for easy connection with your WPS support wireless adapters
- Enjoy HD video streaming, gaming and VoIP with more powerful Dual Band Wireless N
- Advanced NAT+SPI firewall provides fully protection for your wireless connection
- QoS (Quality of Service) designed for prioritizing various data traffic to allow downloading files and playing movies, music, or online gaming at the same time with uninterrupted data streaming
- Supports Universal Plug and Play
- Fully backward compatible with 802.11a/b/g
- Works best with Airlink101® Dual Band Wireless N USB Adapter

2. Connecting the Router

Note: Prior to connecting the router, be sure to power off your computer, DSL/Cable modem, and the router.

Step 1 Connect one end of a network cable to the **INTERNET** 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 Ethernet port and connect the other end to one of the **LAN** 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 Plug the power adapter to the router and connect to an outlet or power strip.

Step 5 Power on your computer.

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

LED Indicators:

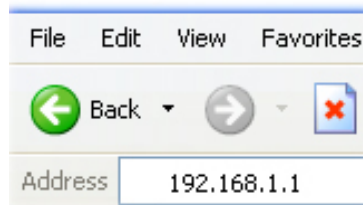


How the router connects:

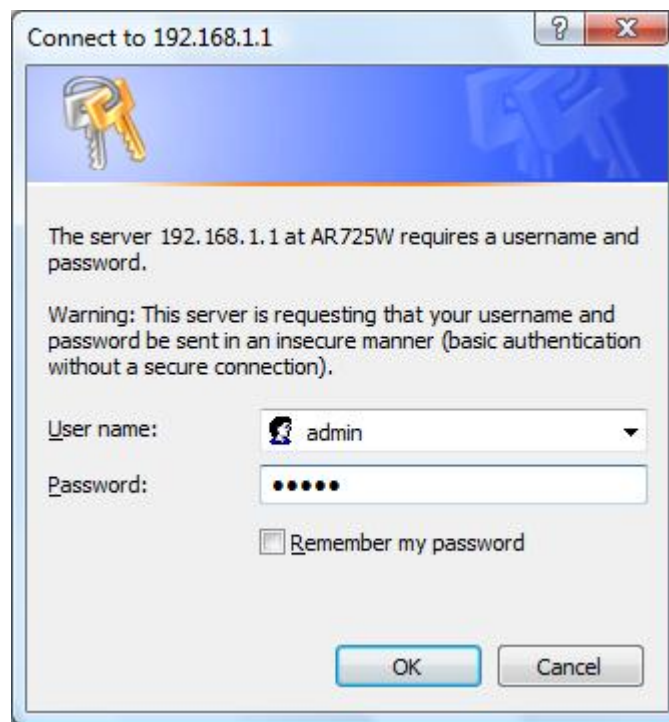


3. Configuring the Router

Step 1 Open the web browser (Internet Explorer or Mozilla Firefox), type **192.168.1.1** in the Address bar and press **Enter**.



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



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

AIRLINK 101 **AR725W**
Dual Band Wireless N Router

Setup | Wireless | Security | Access Restrictions | Applications & Gaming | Administration | Status

Basic Setup | DDNS | MAC Address Clone | Advanced Routing

Internet Setup

Internet Connection Type: Automatic Configuration - DHCP

Optional Settings (required by some Internet Service Providers):

Host Name: AR725W

Domain Name: Airlink101

MTU: Auto Size: 1500

If your ISP requires a registered MAC Address, click on the **MAC Address Clone** tab, select **Enabled**, and click on the **Clone My PC's MAC** button. Click **Apply** to save the setting.

AIRLINK 101 **AR725W**
Dual Band Wireless N Router

Setup | Wireless | Security | Access Restrictions | Applications & Gaming | Administration | Status

Basic Setup | DDNS | MAC Address Clone | Advanced Routing

MAC Address Clone

Enabled Disabled

MAC Address: 00 90 4B 30 00 07

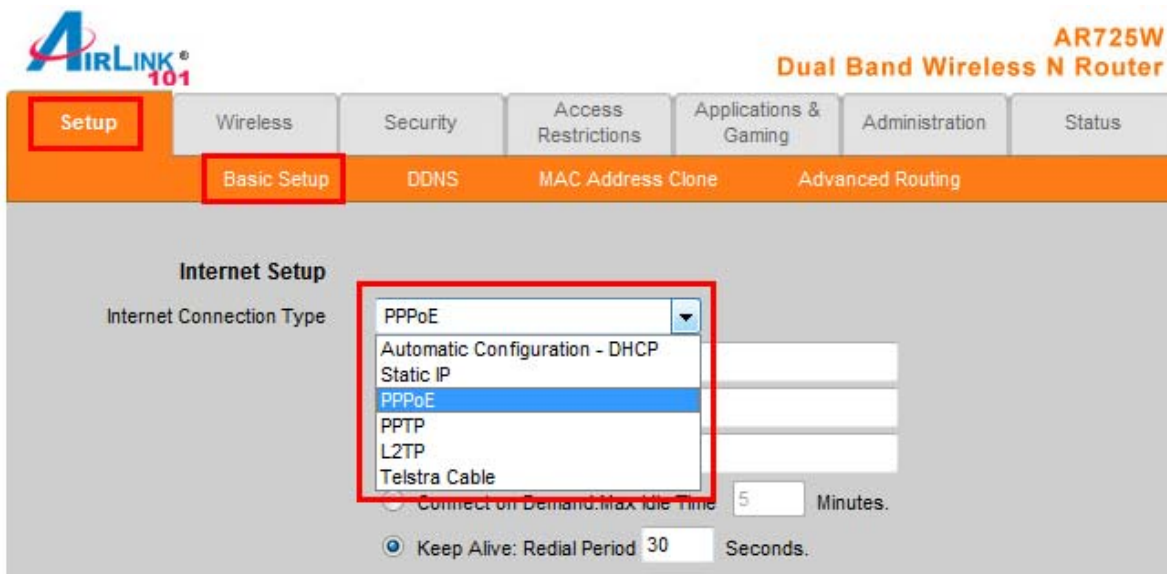
Clone My PC's MAC

If you have trouble connecting to the Internet, please refer to **Section 4, Verifying Connection**.

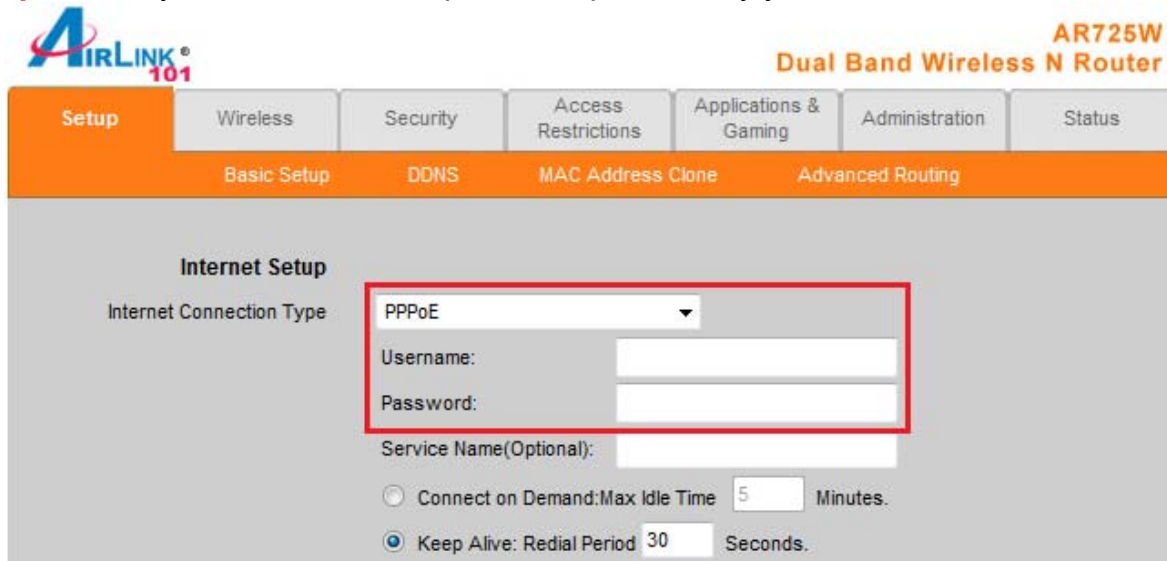
DSL

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** to save the setting.

You should be able to connect to the Internet now with the wired computer. If you have trouble connecting to the Internet, please refer to **Section 4, Verifying Connection**.

Connect each of your wired computers to an available LAN port on the Router with an Ethernet cable, and then restart the computer. These computers should be able to connect to the Internet immediately.

4. Verifying Connection

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**.

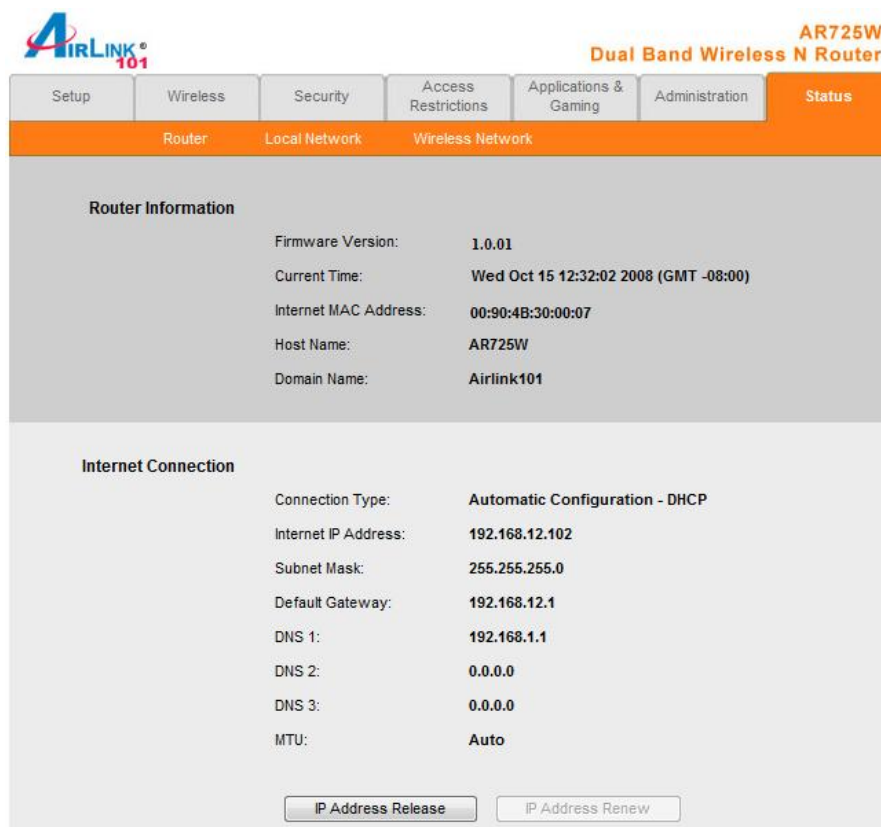
Step 2 Turn on the Cable/DSL modem and wait for the lights on the modem to settle down.

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

Step 6 Verify that the **Internet 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 displays the web interface of an Airlink 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status (which is currently selected). Below the navigation bar, there are three sub-sections: Router, Local Network, and Wireless Network. The main content area is divided into two sections: Router Information and Internet Connection.

Router Information

Firmware Version:	1.0.01
Current Time:	Wed Oct 15 12:32:02 2008 (GMT -08:00)
Internet MAC Address:	00:90:4B:30:00:07
Host Name:	AR725W
Domain Name:	Airlink101

Internet Connection

Connection Type:	Automatic Configuration - DHCP
Internet IP Address:	192.168.12.102
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.12.1
DNS 1:	192.168.1.1
DNS 2:	0.0.0.0
DNS 3:	0.0.0.0
MTU:	Auto

At the bottom of the Internet Connection section, there are two buttons: "IP Address Release" and "IP Address Renew".

If you see all 0's, click on the **IP Address Renew** button (for Cable Modem users) or the **Connect** button (for DSL users).

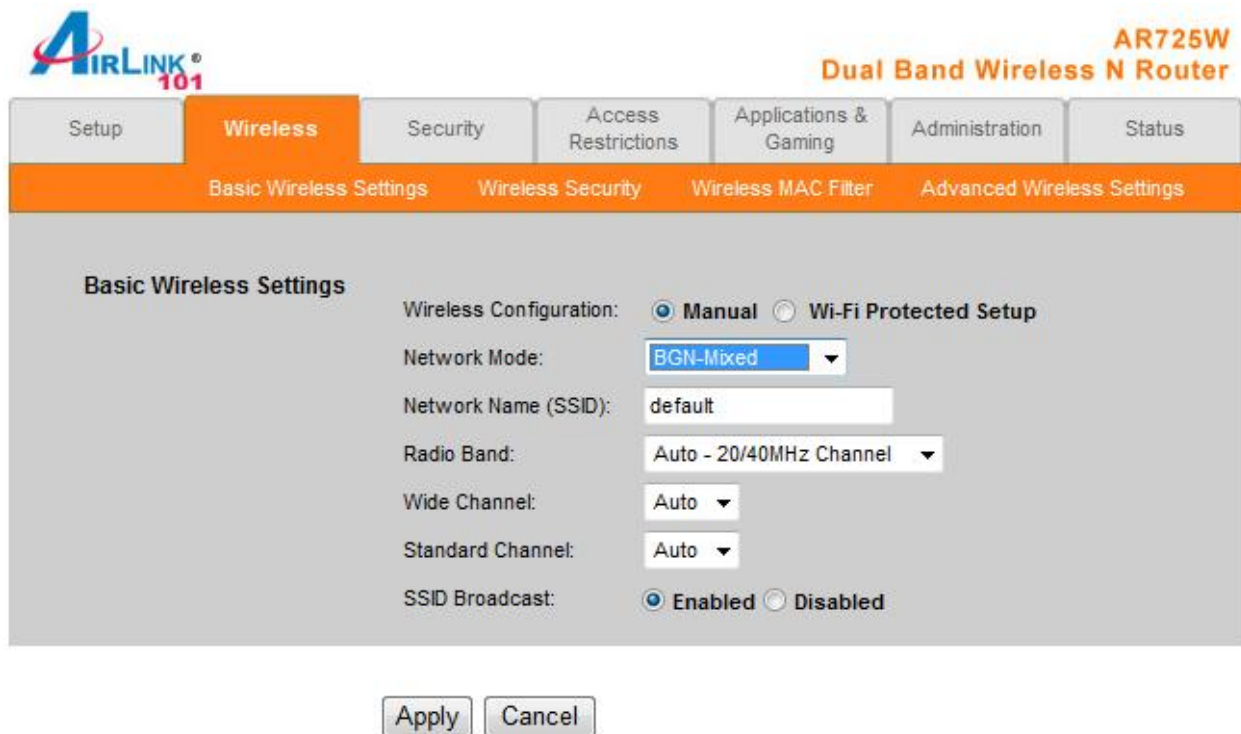
If each field has a valid number assigned, the router is connected to the Internet.

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**
Network Mode: **BGN-Mixed**
Authentication: **Open System**
Channel #: **6**
WEP: **disabled**

If you want to change the router's wireless and security settings, log in to the router and select the **Wireless** tab. Click **Apply** to save the settings after you make changes.



The screenshot shows the configuration interface for the AIRLINK 101 AR725W Dual Band Wireless N Router. The 'Wireless' tab is selected, and the 'Basic Wireless Settings' section is visible. The settings are as follows:

Setting	Value
Wireless Configuration	<input checked="" type="radio"/> Manual <input type="radio"/> Wi-Fi Protected Setup
Network Mode	BGN-Mixed
Network Name (SSID)	default
Radio Band	Auto - 20/40MHz Channel
Wide Channel	Auto
Standard Channel	Auto
SSID Broadcast	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled

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 Setup > Basic Setup

This is the default screen when you log in to the router's web configuration utility. You can setup your Internet connection here as well as configuring the Network and DHCP settings and selecting your Time Zone.

AIRLINK 101 **AR725W**
Dual Band Wireless N Router

Setup | Wireless | Security | Access Restrictions | Applications & Gaming | Administration | Status

Basic Setup | DDNS | MAC Address Clone | Advanced Routing

Internet Setup

Internet Connection Type: Automatic Configuration - DHCP

Optional Settings (required by some Internet Service Providers)

Host Name: AR725W

Domain Name: Airlink101

MTU: Auto Size: 1500

Network Setup

Router IP

IP Address: 192 . 168 . 1 . 1

Subnet Mask: 255.255.255.0

DHCP Server Setting

DHCP Server: Enabled Disabled

Start IP Address: 192 . 168 . 1 . 100

Maximum Number of Users: 50

IP Address Range: 192 . 168 . 1 . 100 to 149

Client Lease Time: 0 minutes (0 means one day)

Static DNS 1: 0 . 0 . 0 . 0

Static DNS 2: 0 . 0 . 0 . 0

Static DNS 3: 0 . 0 . 0 . 0

Time Settings

Time Zone

(GMT-08:00) Pacific Time (USA & Canada)

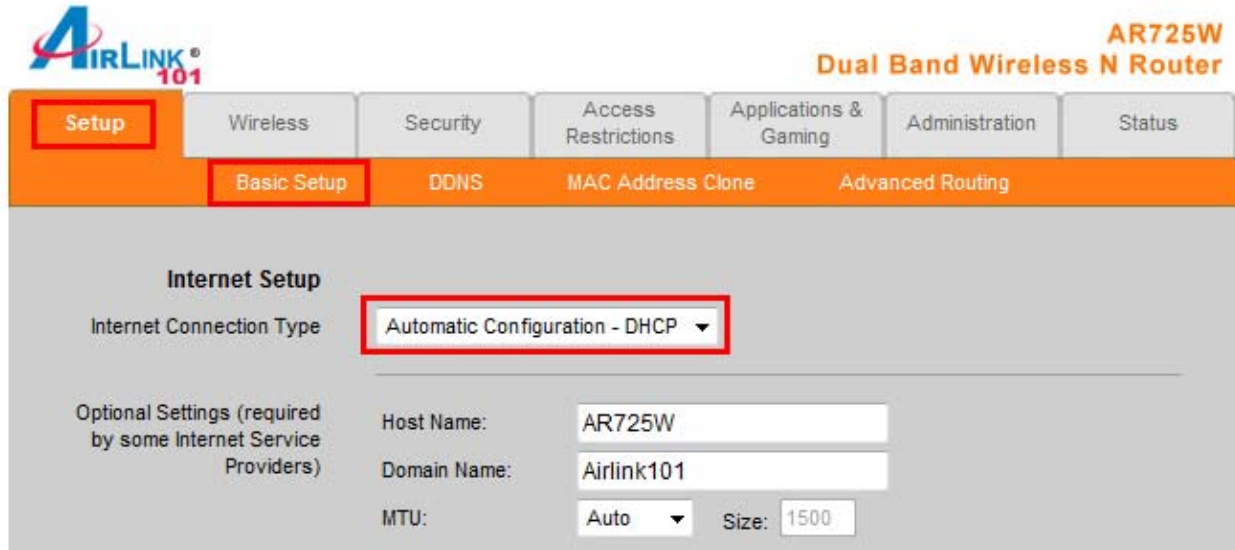
Automatically adjust clock for daylight saving changes.

Internet Setup

There are five Internet Connection Types: DHCP, PPPoE, Static IP, PPTP, L2TP, and Telstra Cable.

Automatic Configuration - DHCP

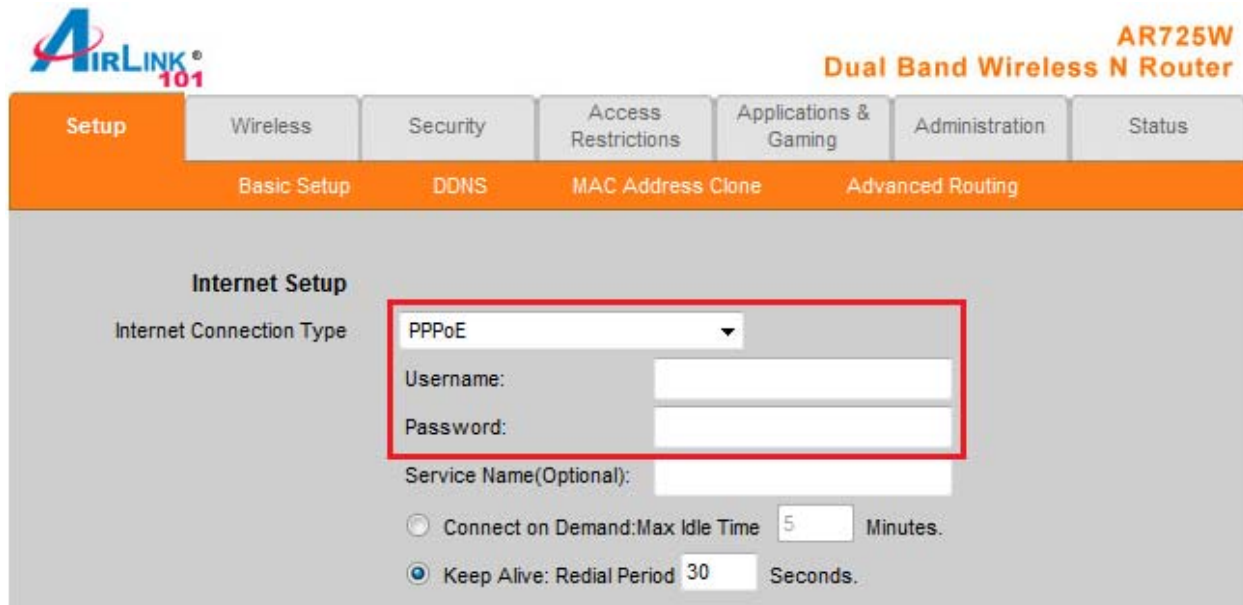
When your ISP provides dynamic IP, you can keep this default setting (This is for most cable modem users). Usually you should be able to connect to the Internet without changing any configuration. If your ISP has provided you with a host name, enter it in the optional **Host Name** field. Click **Apply** to save the setting.



The screenshot shows the web interface of an AR725W Dual Band Wireless N Router. The 'Setup' tab is selected, and the 'Basic Setup' sub-tab is active. Under 'Internet Setup', the 'Internet Connection Type' is set to 'Automatic Configuration - DHCP'. Below this, there are fields for 'Host Name' (AR725W), 'Domain Name' (Airlink101), 'MTU' (Auto), and 'Size' (1500).

PPPoE

Usually DSL service provider uses PPPoE for Internet connection. You will need to provide username and password given by your ISP to connect to the Internet.



The screenshot shows the web interface of an AR725W Dual Band Wireless N Router. The 'Setup' tab is selected, and the 'Basic Setup' sub-tab is active. Under 'Internet Setup', the 'Internet Connection Type' is set to 'PPPoE'. Below this, there are fields for 'Username', 'Password', and 'Service Name(Optional)'. There are also radio buttons for 'Connect on Demand: Max Idle Time' (5 Minutes) and 'Keep Alive: Redial Period' (30 Seconds).

Static IP

Select Static IP if your ISP provided you the static IP address, Subnet Mask, Default Gateway and DNS server addresses for Internet connection.

The screenshot shows the configuration interface for the AirLink 101 AR725W Dual Band Wireless N Router. The 'Setup' tab is active, and the 'Internet Setup' section is displayed. The 'Internet Connection Type' dropdown menu is set to 'Static IP'. Below this, the following fields are visible:

Internet IP Address:	0	0	0	0
Subnet Mask:	0	0	0	0
Default Gateway:	0	0	0	0
DNS 1:	0	0	0	0
DNS 2:	0	0	0	0
DNS 3:	0	0	0	0

PPTP

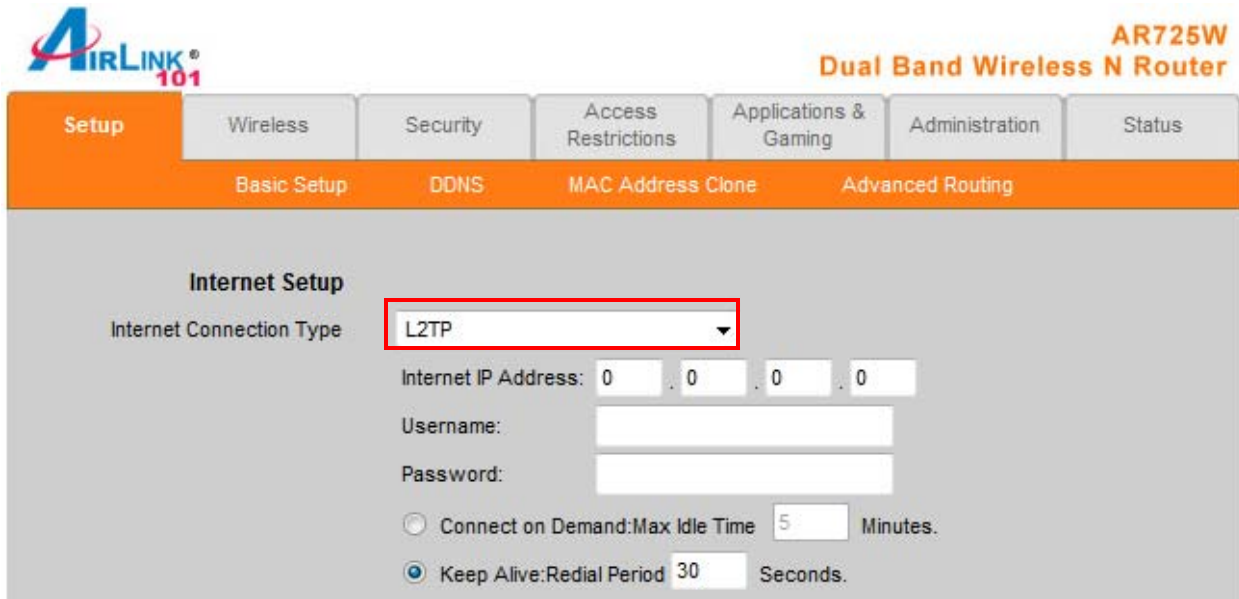
Point-to-Point Tunneling Protocol (PPTP) is a service that applies to connections in Europe only. Enter the Internet connection information provided by your ISP accordingly.

The screenshot shows the configuration interface for the AirLink 101 AR725W Dual Band Wireless N Router. The 'Internet Setup' section is displayed, and the 'Internet Connection Type' dropdown menu is set to 'PPTP'. The following options and fields are visible:

- Obtain an IP Address Automatically.
- Specify an IP Address
 - IP Address: 0 . 0 . 0 . 0
 - Subnet Mask: 0 . 0 . 0 . 0
 - Default Gateway Address: 0 . 0 . 0 . 0
 - DNS 1: 0 . 0 . 0 . 0 (Required)
 - DNS 2: 0 . 0 . 0 . 0 (Optional)
 - DNS 3: 0 . 0 . 0 . 0 (Optional)
 - Server IP Address: 0 . 0 . 0 . 0
 - Username:
 - Password:
- Connect on Demand: Max Idle Time Minutes.
- Keep Alive: Redial Period Seconds.

L2TP

L2TP is a service that applies to connections in Israel only. Enter the Internet connection information provided by your ISP accordingly.



The screenshot shows the configuration page for the AIRLINK 101 AR725W Dual Band Wireless N Router. The page is titled "Internet Setup" and features a navigation menu with tabs for "Setup", "Wireless", "Security", "Access Restrictions", "Applications & Gaming", "Administration", and "Status". Below the navigation menu, there are sub-tabs for "Basic Setup", "DDNS", "MAC Address Clone", and "Advanced Routing". The "Internet Setup" section is active, and the "Internet Connection Type" dropdown menu is set to "L2TP". The "Internet IP Address" field is set to "0.0.0.0". The "Username" and "Password" fields are empty. The "Connect on Demand: Max Idle Time" is set to "5" minutes, and the "Keep Alive: Redial Period" is set to "30" seconds.

AIRLINK 101 **AR725W**
Dual Band Wireless N Router

Setup | Wireless | Security | Access Restrictions | Applications & Gaming | Administration | Status

Basic Setup | DDNS | MAC Address Clone | Advanced Routing

Internet Setup

Internet Connection Type: **L2TP**

Internet IP Address: 0 . 0 . 0 . 0

Username:

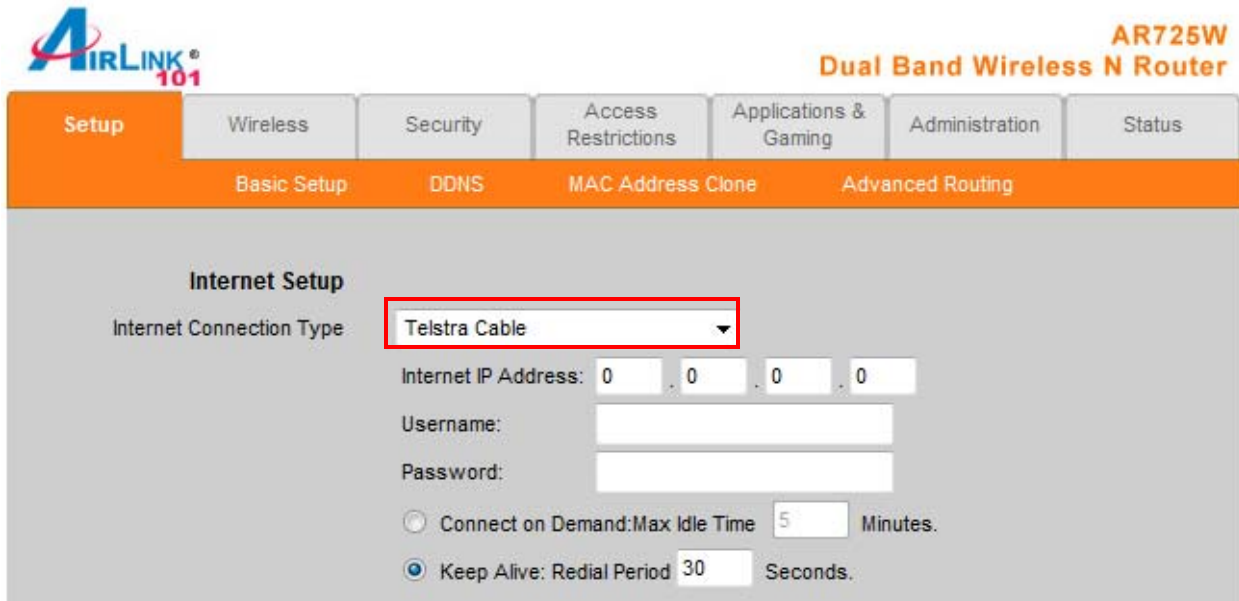
Password:

Connect on Demand: Max Idle Time 5 Minutes.

Keep Alive: Redial Period 30 Seconds.

Telstra Cable

Telstra Cable is a service that applies to connections in Australia only. Enter the Internet connection information provided by your ISP accordingly.



The screenshot shows the configuration page for the AIRLINK 101 AR725W Dual Band Wireless N Router. The page is titled "Internet Setup" and features a navigation menu with tabs for "Setup", "Wireless", "Security", "Access Restrictions", "Applications & Gaming", "Administration", and "Status". Below the navigation menu, there are sub-tabs for "Basic Setup", "DDNS", "MAC Address Clone", and "Advanced Routing". The "Internet Setup" section is active, and the "Internet Connection Type" dropdown menu is set to "Telstra Cable". The "Internet IP Address" field is set to "0.0.0.0". The "Username" and "Password" fields are empty. The "Connect on Demand: Max Idle Time" is set to "5" minutes, and the "Keep Alive: Redial Period" is set to "30" seconds.

AIRLINK 101 **AR725W**
Dual Band Wireless N Router

Setup | Wireless | Security | Access Restrictions | Applications & Gaming | Administration | Status

Basic Setup | DDNS | MAC Address Clone | Advanced Routing

Internet Setup

Internet Connection Type: **Telstra Cable**

Internet IP Address: 0 . 0 . 0 . 0

Username:

Password:

Connect on Demand: Max Idle Time 5 Minutes.

Keep Alive: Redial Period 30 Seconds.

Network Setup

Router IP

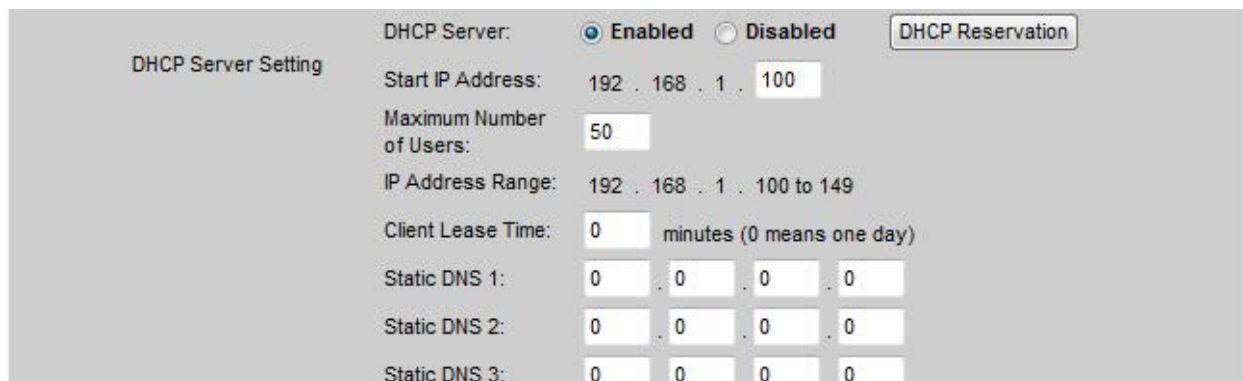
You can change the Router's IP Address and its Subnet Mask.



The screenshot shows a 'Network Setup' form with a 'Router IP' section. The 'IP Address' field is set to 192.168.1.1, and the 'Subnet Mask' field is set to 255.255.255.0.

DHCP Server Setting

The Router has a built-in DHCP server which can dynamically assign IP address to each device on your network. The **DHCP Server** is **Enabled** by default, if you already have a DHCP server on the network, you need to select **Disabled**.



The screenshot shows a 'DHCP Server Setting' form. The 'DHCP Server' is set to 'Enabled'. The 'Start IP Address' is 192.168.1.100, 'Maximum Number of Users' is 50, and 'IP Address Range' is 192.168.1.100 to 149. 'Client Lease Time' is 0 minutes. 'Static DNS 1', 'Static DNS 2', and 'Static DNS 3' are all set to 0.0.0.0. A 'DHCP Reservation' button is visible.

Start IP Address: Give a value for the dynamically assigning IP address to start with. Because the Router's default IP address is **192.168.1.1**, the Starting IP Address must be 192.168.1.2 or greater, but smaller than 192.168.1.253. The default Starting IP Address is **192.168.1.100**.

Maximum Number of Users: Enter the maximum number of PCs that you want the DHCP server to assign IP addresses to. This number cannot be greater than 253. The default is **50**.

Client Lease Time: The Client Lease Time is the amount of time a network user will be allowed connection to the Router with their current dynamic IP address.

Static DNS 1~3: Enter up to 3 DNS addresses for your network.

DHCP Reservation: If you want to assign a static IP Address to one of the computers in your network, click on the **DHCP Reservation** button.

Static DHCP Client List

DHCP Client Table

Assign this IP	To this MAC	Enabled
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>
192.168.1. <input type="text"/>	<input type="text" value="00:00:00:00:00:00"/>	<input type="checkbox"/>

Step 1 Enter the Static IP Address in the **Assign this IP** field.

Step 2 Enter the MAC address of the corresponding computer in the **To this MAC** field.

Step 3 Check the **Enabled** box.

Step 4 Click **Save Settings**.

Time Settings

Set up the time zone and daylight saving for the Router.

Time Zone

(GMT-08:00) Pacific Time (USA & Canada) ▼

Automatically adjust clock for daylight saving changes.

6.1.2 Setup > 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 displays the configuration interface for the DDNS service on an AIRLINK 101 Dual Band Wireless N Router (AR725W). The main navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. Under the Setup tab, there are sub-tabs for Basic Setup, DDNS (which is highlighted with a red box), MAC Address Clone, and Advanced Routing. The DDNS configuration area shows the DDNS Service is currently set to "Disabled" via a dropdown menu. At the bottom of the page, there are "Apply" and "Cancel" buttons.

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

6.1.3 Setup > MAC Address Clone

Some ISPs require a registered MAC address to access the Internet. You can use the following steps to clone your PC's registered MAC address to access the Internet.

The screenshot shows the configuration interface for the AirLink 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The 'Setup' tab is active, and the 'MAC Address Clone' sub-tab is selected. The main content area is titled 'MAC Address Clone' and features a radio button menu with 'Enabled' selected and 'Disabled' unselected. Below this, the 'MAC Address' field is populated with the hexadecimal values '00', '90', '4B', '30', '00', and '07'. A 'Clone My PC's MAC' button is positioned directly below the MAC address field. At the bottom of the page, there are 'Apply' and 'Cancel' buttons.

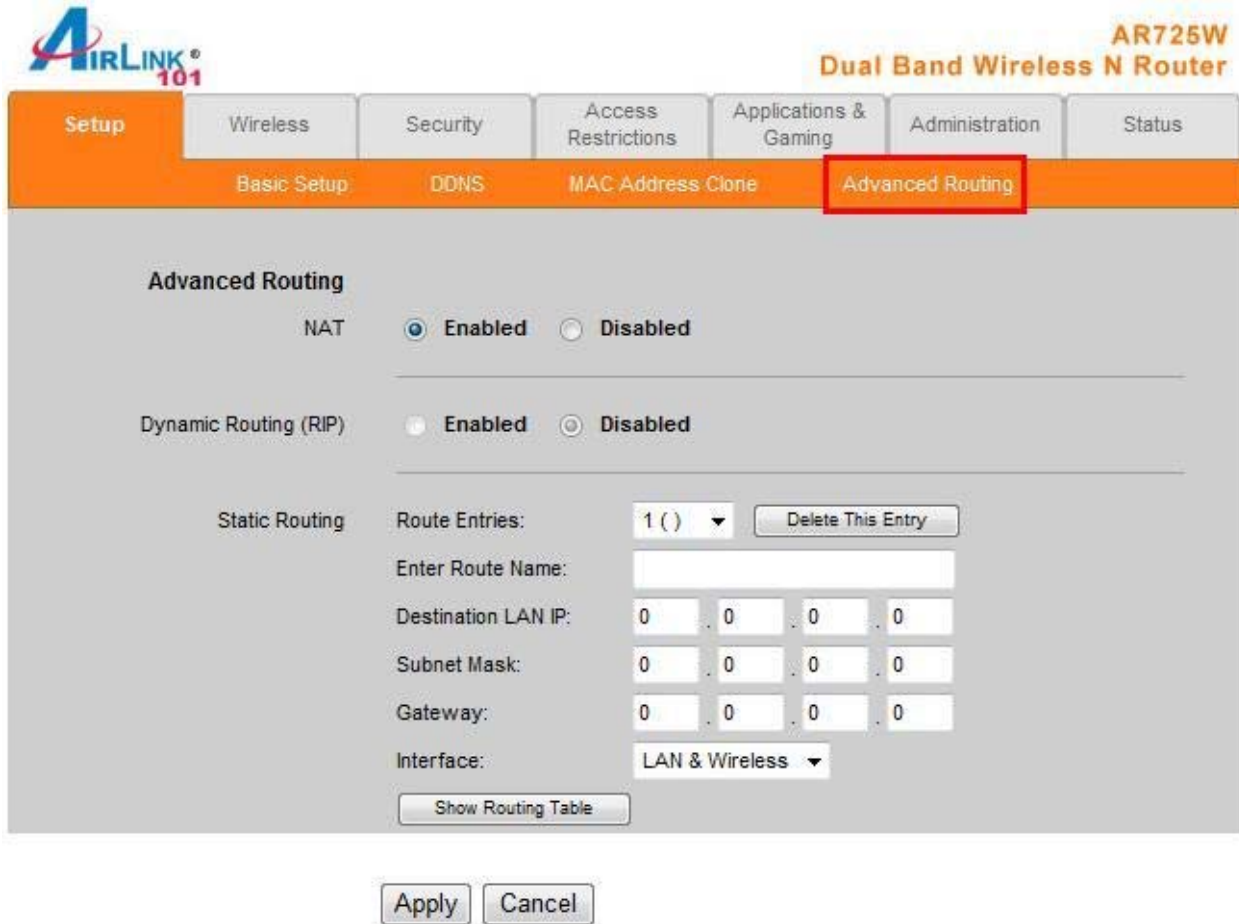
Step 1 Select **Enabled** from the drop-down menu.

Step 2 Click the **Clone My PC's MAC** button.

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

6.1.4 Setup > Advanced Routing

You can configure your own static routing table using the Advanced Routing function.



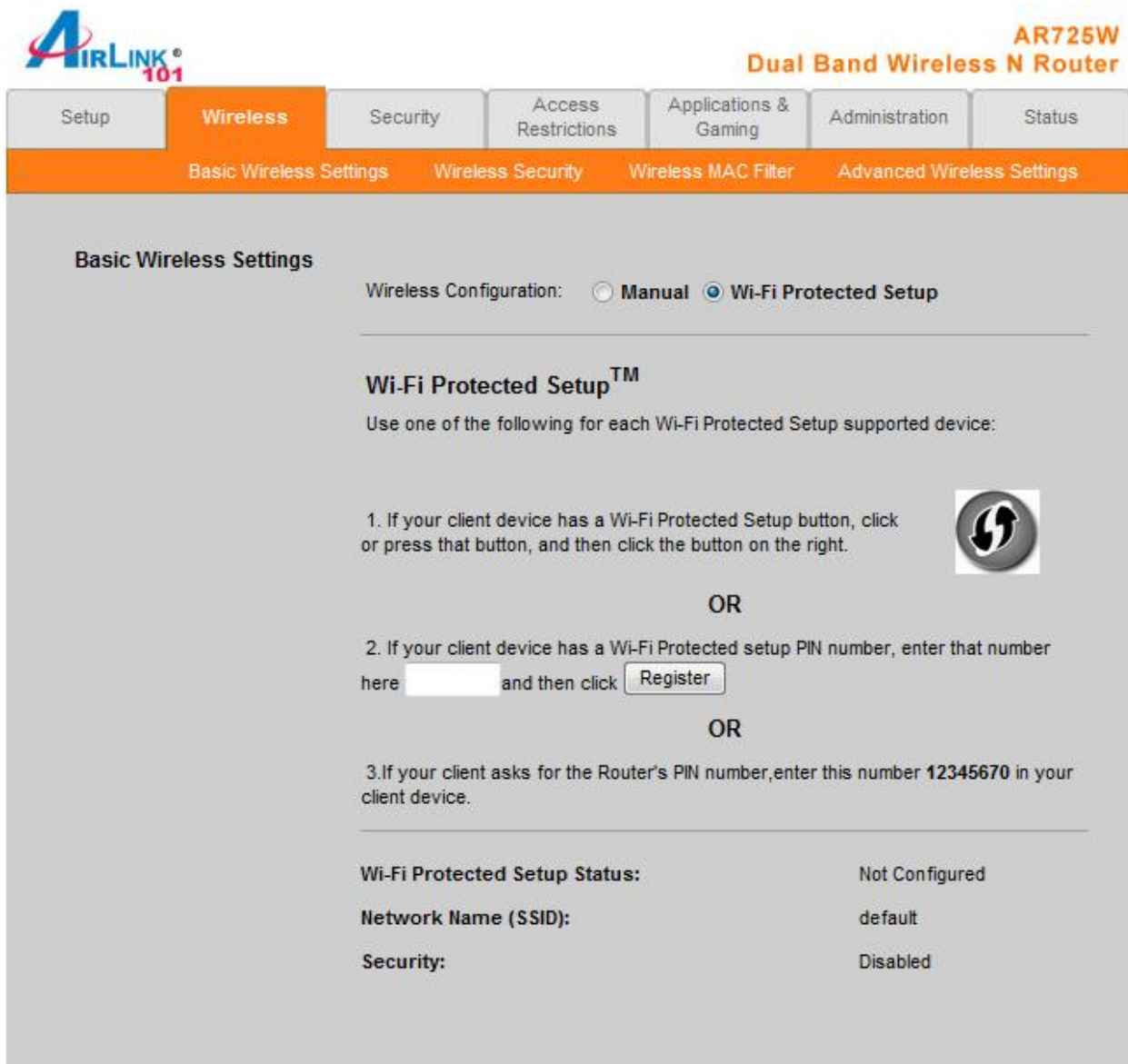
The screenshot shows the configuration interface for the AirLink 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The 'Advanced Routing' tab is selected and highlighted with a red box. Below the navigation bar, the 'Advanced Routing' section is displayed. It contains three main sections: NAT, Dynamic Routing (RIP), and Static Routing. The NAT section has radio buttons for 'Enabled' (selected) and 'Disabled'. The Dynamic Routing (RIP) section has radio buttons for 'Enabled' and 'Disabled'. The Static Routing section includes a 'Route Entries' dropdown menu showing '1 ()' and a 'Delete This Entry' button. Below this are input fields for 'Enter Route Name', 'Destination LAN IP', 'Subnet Mask', and 'Gateway', each with four digit input boxes. The 'Interface' dropdown menu is set to 'LAN & Wireless'. A 'Show Routing Table' button is located at the bottom of the Static Routing section. At the very bottom of the page, there are 'Apply' and 'Cancel' buttons.

To see the current routing table, click on **Show Routing Table** button.

Be sure to click **Apply** to save each entry.

6.2. Wireless

6.2.1 Wireless > Basic Wireless Settings



The screenshot shows the configuration interface for an AIRLINK 101 AR725W Dual Band Wireless N Router. The page is titled "Basic Wireless Settings" and features a navigation menu with tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The "Wireless" tab is active, and the "Basic Wireless Settings" sub-tab is selected. The "Wireless Configuration" section has two radio buttons: "Manual" (unselected) and "Wi-Fi Protected Setup" (selected). Below this, the "Wi-Fi Protected Setup™" section provides instructions for setting up a Wi-Fi Protected Setup supported device. It lists three steps: 1. Click the Wi-Fi Protected Setup button on the client device. 2. Enter the Wi-Fi Protected Setup PIN number and click the "Register" button. 3. Enter the Router's PIN number (12345670) in the client device. A circular arrow icon is shown next to step 1. At the bottom, a status table shows the current configuration.

Wireless Configuration:	<input type="radio"/> Manual <input checked="" type="radio"/> Wi-Fi Protected Setup
Wi-Fi Protected Setup™	
Use one of the following for each Wi-Fi Protected Setup supported device:	
1. If your client device has a Wi-Fi Protected Setup button, click or press that button, and then click the button on the right.	
OR	
2. If your client device has a Wi-Fi Protected Setup PIN number, enter that number here <input type="text"/> and then click <input type="button" value="Register"/>	
OR	
3. If your client asks for the Router's PIN number, enter this number 12345670 in your client device.	
Wi-Fi Protected Setup Status:	Not Configured
Network Name (SSID):	default
Security:	Disabled

Wireless Configuration - Manual

To configure the Wireless settings, click on **Manual**.



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

This image shows a detailed view of the 'Basic Wireless Settings' configuration page. The title 'Basic Wireless Settings' is at the top left. Below it, the 'Wireless Configuration' is set to 'Manual' (selected with a radio button). Other settings include: 'Network Mode' set to 'BGN-Mixed' (dropdown menu); 'Network Name (SSID)' set to 'default' (text input field); 'Radio Band' set to 'Auto - 20/40MHz Channel' (dropdown menu); 'Wide Channel' set to 'Auto' (dropdown menu); 'Standard Channel' set to 'Auto' (dropdown menu); and 'SSID Broadcast' set to 'Enabled' (selected with a radio button). At the bottom of the form are two buttons: 'Apply' and 'Cancel'.

Network Mode: If you have 802.11b/g/n 2.4GHz devices on the wireless network, select **BGN-Mixed**. If you have 802.11a/n 5GHz devices on the wireless network, select **AN-Mixed**.

Note: If your wireless computer cannot detect the router after you selected AN-Mixed, please make sure your wireless adapter supports 5GHz frequency band.

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 use the same channel.

Radio Band: For best performance in a network, keep the default, **Auto – 20/40MHz Channel**.

Standard Channel: If you selected Auto – 20/40MHz Channel for the Radio Band setting, then this setting will be your primary Wireless N channel. If you are not sure which channel to select, keep the default, **Auto**.

Extension Channel: Select the extension channel for Wireless N extended radio band. If you are not sure which channel to select, keep the default, **Auto**.

SSID Broadcast: Choose to enable or disable the broadcast of your SSID (wireless network name).

6.2.2 Wireless > Wireless Security

You can configure wireless security such as WPA2 or WEP encryption on this screen.

Note: WPA2 Personal is the most secured encryption mode for general users. WEP is the most common encryption but the least secured. It is recommended to use WPA2 Personal AES for your wireless security if all the wireless devices on your network support this mode. 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 the AIRLINK 101 Dual Band Wireless N Router. The top navigation bar includes 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Applications & Gaming', 'Administration', and 'Status'. The 'Wireless' tab is active, and the 'Wireless Security' sub-tab is selected. The 'Wireless Security' section contains the following fields:

- Security Mode: WEP (dropdown menu)
- Encryption: 40 / 64-bit (10 hex digits) (dropdown menu)
- Passphrase: [text input field] [Generate button]
- Key 1: 123456abcd (text input field)
- Key 2: [text input field]
- Key 3: [text input field]
- Key 4: [text input field]
- TX Key: 1 (dropdown menu)

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

Passphrase: You can enter a passphrase and click on the **Generate** button and the router will automatically generate four WEP keys for you.

WEP Key 1 – 4: Manually assign a passphrase 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.

TX Key: Select a key to be the active key.

Click **Apply** to save the setting.

WPA Personal

Select **WPA Personal** from the **Security Mode**.

The screenshot shows the configuration interface for an AIRLINK 101 Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The main content area is titled 'Wireless Security' and contains the following settings:

- Security Mode: WPA Personal (dropdown menu)
- Encryption: AES (dropdown menu)
- Passphrase: (empty text input field)
- Key Renewal: 3600 seconds (text input field)

Encryption: Select either **TKIP** or **AES** 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** to save the setting.

WPA2 Personal

Select **WPA2 Personal** from the **Security Mode**.



The screenshot shows the configuration interface for an AIRLINK 101 Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The 'Wireless' tab is active, and the 'Wireless Security' sub-tab is selected. The 'Wireless Security' section contains the following settings:

Security Mode:	WPA2 Personal
Encryption:	AES
Passphrase:	1234aBCd
Key Renewal:	3600 seconds

At the bottom of the page, there are two buttons: 'Apply' and 'Cancel'. The 'Apply' button is highlighted with a red box.

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

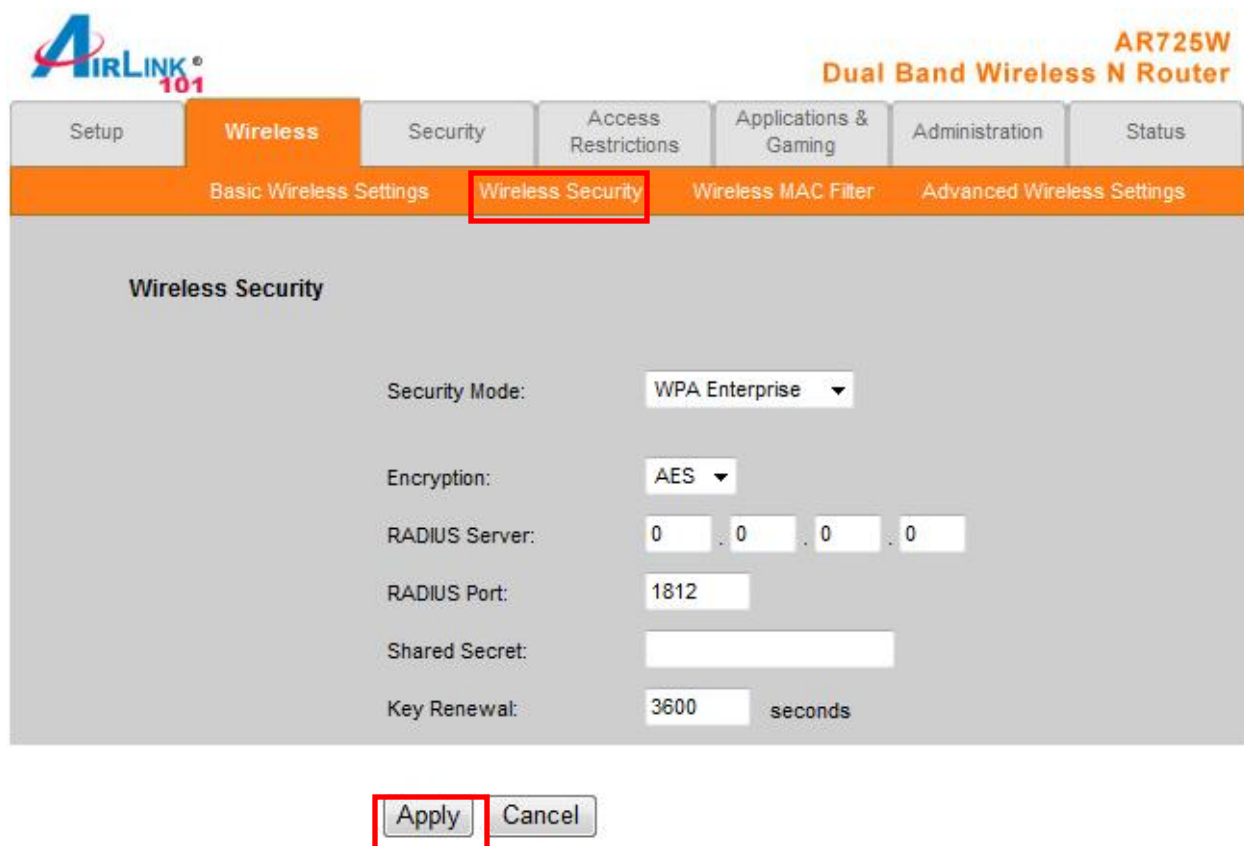
Passphrase: Enter a passphrase between 8 to 63 characters long.

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

Click **Apply** to save the setting.

WPA Enterprise

Select **WPA Enterprise** from the **Security Mode**.



The screenshot shows the configuration interface for the AIRLINK 101 AR725W Dual Band Wireless N Router. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The 'Security Mode' is set to 'WPA Enterprise', 'Encryption' is set to 'AES', 'RADIUS Server' is '0.0.0.0', 'RADIUS Port' is '1812', 'Shared Secret' is empty, and 'Key Renewal' is '3600 seconds'. The 'Apply' button is highlighted with a red box.

Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
Basic Wireless Settings		Wireless Security	Wireless MAC Filter		Advanced Wireless Settings	

Wireless Security

Security Mode: WPA Enterprise

Encryption: AES

RADIUS Server: 0 . 0 . 0 . 0

RADIUS Port: 1812

Shared Secret:

Key Renewal: 3600 seconds

Apply Cancel

Encryption: Select either **TKIP** or **AES** 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 Secret: Enter the shared key.

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

Click **Apply** to save the setting.

WPA2 Enterprise

Select **WPA2 Enterprise** from the **Security Mode**.

The screenshot shows the configuration interface for the AIRLINK 101 AR725W Dual Band Wireless N Router. The 'Wireless Security' tab is selected, and the 'Security Mode' is set to 'WPA2 Enterprise'. Other settings include 'Encryption' set to 'AES', 'RADIUS Server' set to '0.0.0.0', 'RADIUS Port' set to '1812', 'Shared Secret' (empty), and 'Key Renewal' set to '3600 seconds'. The 'Apply' button is highlighted with a red box.

Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
Basic Wireless Settings		Wireless Security	Wireless MAC Filter		Advanced Wireless Settings	

Wireless Security

Security Mode: WPA2 Enterprise

Encryption: AES

RADIUS Server: 0 . 0 . 0 . 0

RADIUS Port: 1812

Shared Secret:

Key Renewal: 3600 seconds

Apply Cancel

Encryption: Select either **TKIP or AES** 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 Secret: Enter the shared key.

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

Click **Apply** to save the setting.

Radius

This option features WEP used in coordination with a RADIUS server. (This should only be used when a RADIUS server is connected to the Router.)

The screenshot shows the configuration interface for the AIRLINK 101 AR725W Dual Band Wireless N Router. The 'Wireless Security' tab is selected and highlighted with a red box. The 'Security Mode' is set to 'RADIUS'. The 'RADIUS Server' field contains '0.0.0.0', 'RADIUS Port' is '1812', and 'Shared Secret' is empty. The 'Encryption' is set to '40 / 64-bit (10 hex digits)'. The 'Passphrase' field is empty, and the 'Generate' button is visible. The 'Key 1' field contains '123456abcd', and 'Key 2', 'Key 3', and 'Key 4' are empty. The 'TX Key' is set to '1'. The 'Apply' button is highlighted with a red box.

Encryption Methods: Select either **TKIP** or **AES** 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 Secret: Enter the shared key.

Encryption: Select a level of WEP encryption, **64 bits 10 hex digits** or **128 bits 26 hex digits**. The default is **64 bits 10 hex digits**.

Passphrase: Enter a Passphrase to automatically generate WEP keys. Then click **Generate**.

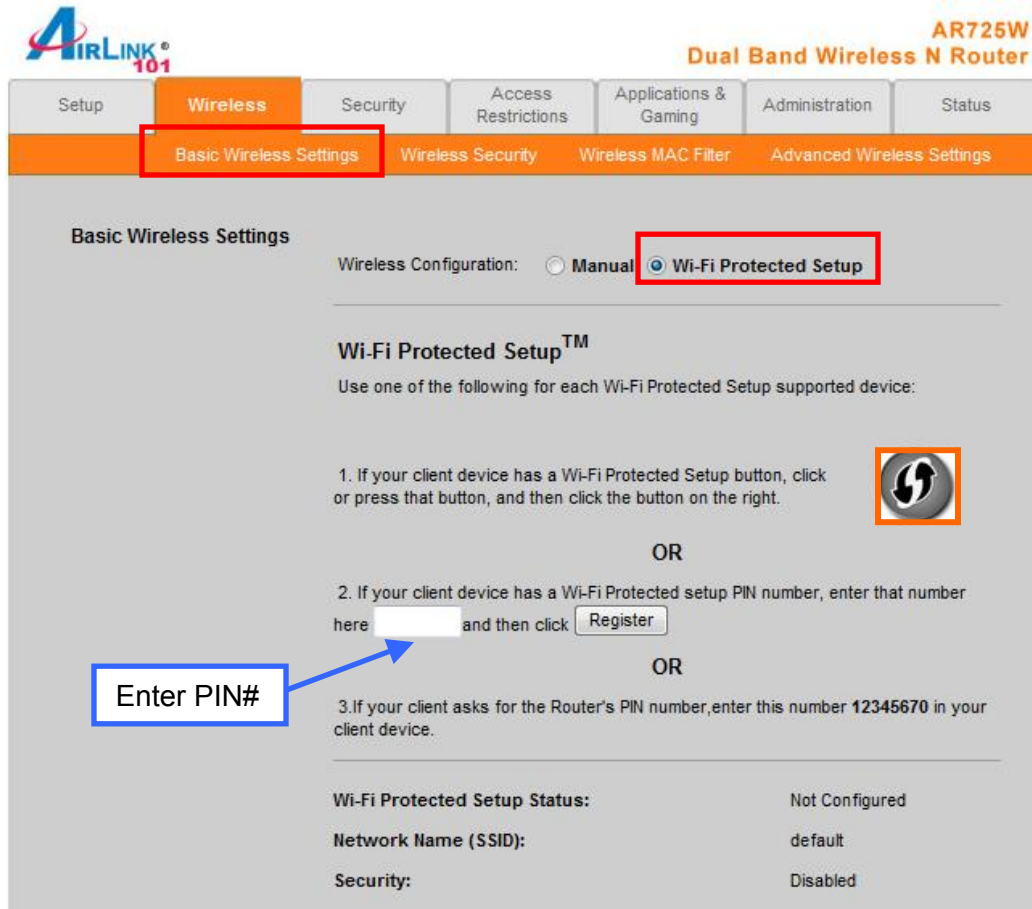
Key 1-4: If you did not enter a Passphrase, enter the WEP key(s) manually.

Tx Key: Select a key from the drop-down menu.

Click **Apply** to save the setting.

Wireless Configuration - WiFi-Protected Setup

To use Wi-Fi Protected Setup, click on **WiFi-Protected Setup**.



WiFi Protected Setup supports two types of connection: Push Button Configuration (PBC) or Personal Identification Number (PIN).

If you choose to use **PBC** on your client device to connect to the router, click on the WPS software button in the orange square.

If you choose to use **PIN** on your client device, you need to enter the PIN number generated by the client device into the blank and click **Register**.

Connecting to the Router with WPS Push Button (Optional)

Airlink101 Dual Band Wireless N Router supports hardware WiFi-Protected Setup (WPS) push button which allows you to connect your wireless computer with the router safely and easily. Your wireless adapter must support this feature as well. If not, you will need to set up the wireless security manually and you can skip this section.

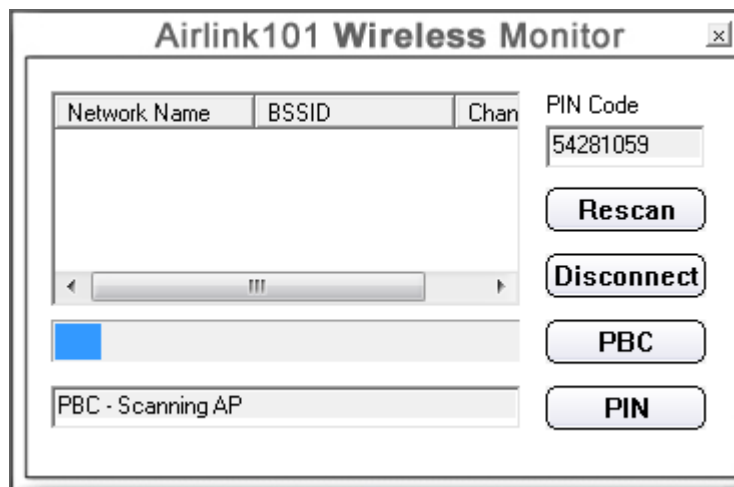
In the instructions below, we are going to use the Wireless Monitor utility that comes with Airlink101 Dual Band Wireless N adapters as example.

Step 1 Go to the computer with Airlink101 Dual Band Wireless N Adapter **connected**.

Step 2 Push and hold the WPS button on the bottom of the Adapter until you see the WPS window pop up on the computer monitor.



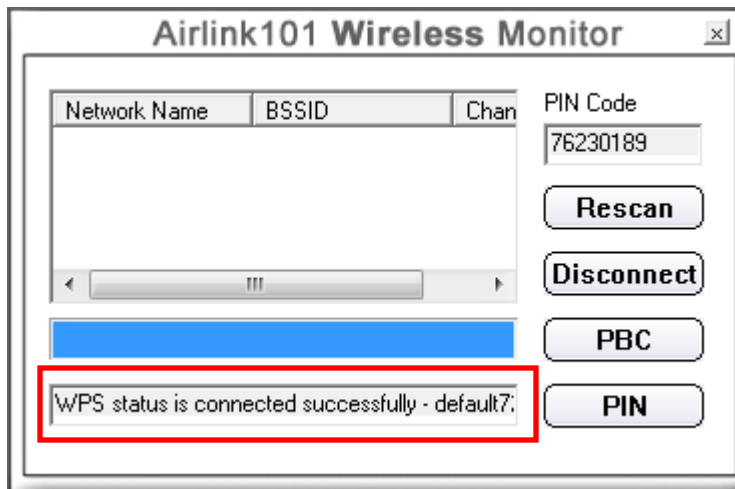
WPS window:



Step 3 Push the WPS button on the Dual Band Wireless N Router, and the blue LED will start blinking.



Step 4 The Router will now start the handshake with the wireless adapter. When you see the window below, the connection has been established.



6.2.3 Wireless > Wireless MAC Filter

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

Setup **Wireless** Security Access Restrictions Applications & Gaming Administration Status

Basic Wireless Settings Wireless Security **Wireless MAC Filter** Advanced Wireless Settings

Wireless MAC Filter

Enabled Disabled

Access Restriction

Prevent PCs listed below from accessing the wireless network.

Permit PCs listed below to access the wireless network.

MAC Address Filter List

Wireless Client List

MAC 1:	00:00:00:00:00:00	MAC 26:	00:00:00:00:00:00
MAC 2:	00:00:00:00:00:00	MAC 27:	00:00:00:00:00:00
MAC 3:	00:00:00:00:00:00	MAC 28:	00:00:00:00:00:00
MAC 4:	00:00:00:00:00:00	MAC 29:	00:00:00:00:00:00
MAC 5:	00:00:00:00:00:00	MAC 30:	00:00:00:00:00:00
MAC 6:	00:00:00:00:00:00	MAC 31:	00:00:00:00:00:00
MAC 7:	00:00:00:00:00:00	MAC 32:	00:00:00:00:00:00
MAC 8:	00:00:00:00:00:00	MAC 33:	00:00:00:00:00:00
MAC 9:	00:00:00:00:00:00	MAC 34:	00:00:00:00:00:00
MAC 10:	00:00:00:00:00:00	MAC 35:	00:00:00:00:00:00
MAC 11:	00:00:00:00:00:00	MAC 36:	00:00:00:00:00:00
MAC 12:	00:00:00:00:00:00	MAC 37:	00:00:00:00:00:00
MAC 13:	00:00:00:00:00:00	MAC 38:	00:00:00:00:00:00
MAC 14:	00:00:00:00:00:00	MAC 39:	00:00:00:00:00:00
MAC 15:	00:00:00:00:00:00	MAC 40:	00:00:00:00:00:00
MAC 16:	00:00:00:00:00:00	MAC 41:	00:00:00:00:00:00
MAC 17:	00:00:00:00:00:00	MAC 42:	00:00:00:00:00:00
MAC 18:	00:00:00:00:00:00	MAC 43:	00:00:00:00:00:00
MAC 19:	00:00:00:00:00:00	MAC 44:	00:00:00:00:00:00
MAC 20:	00:00:00:00:00:00	MAC 45:	00:00:00:00:00:00
MAC 21:	00:00:00:00:00:00	MAC 46:	00:00:00:00:00:00
MAC 22:	00:00:00:00:00:00	MAC 47:	00:00:00:00:00:00
MAC 23:	00:00:00:00:00:00	MAC 48:	00:00:00:00:00:00
MAC 24:	00:00:00:00:00:00	MAC 49:	00:00:00:00:00:00
MAC 25:	00:00:00:00:00:00	MAC 50:	00:00:00:00:00:00

Select **Enabled** 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** to save the setting.

6.2.4 Wireless > Advanced Wireless Settings

You can configure various advanced wireless settings on this screen.

The screenshot shows the configuration interface for an AirLink 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The 'Wireless' tab is active, and the 'Advanced Wireless Settings' sub-tab is selected. The settings are as follows:

Setting	Value	Default
AP Isolation	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	Disabled
Frame Burst	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	Enabled
Authentication Type	Auto	Auto
Basic Rate	Default	Default
Transmission Rate	Auto	Auto
N Transmission Rate	Auto	Auto
CTS Protection Mode	Auto	Auto
Beacon Interval	100	100 (Range: 20-999)
DTIM Interval	1	1 (Range: 1-255)
Fragmentation Threshold	2346	2346 (Range: 256-2346)
RTS Threshold	2347	2347 (Range: 0-2347)

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

AP Isolation: This isolates all wireless clients and wireless devices on your network from each other. Wireless devices will be able to communicate with the Router but not with each other. To use this function, select **Enabled**.

Frame Burst: Frame Burst allows packet bursting which will increase overall network speed.

Authentication Type: The default is set to **Auto**, which allows either Open System or Shared Key authentication to be used. With **Open System** authentication, the sender and the recipient do NOT use a WEP key for authentication. With **Shared Key** authentication, the sender and recipient use a WEP key for authentication.

Basic Rate: The Basic Rate setting is not one, but a series of rates at which the Router can transmit. (The Basic Rate is not the actual rate of data transmission. If you want to specify the Router's rate of data transmission, configure the Transmission Rate setting.)

Transmission Rate: The rate of data transmission should be set depending on the speed of your wireless network.

CTS Protection Mode: CTS (Clear-To-Send) Protection Mode should remain disabled unless you are having severe problems with your wireless products not being able to transmit to the Router in an environment with heavy latency wireless traffic. This function boosts the Router's ability to catch all wireless transmissions but will severely decrease performance.

Beacon Interval: A beacon is a packet broadcast by the Router to synchronize the wireless network.

DTIM Interval: This value, between 3 and 255, indicates the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages. When the Router has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Its clients hear the beacons and awaken to receive the broadcast and multicast messages. The default value is **3**.

Fragmentation Threshold: This value specifies the maximum size for a packet before data is fragmented into multiple packets. If you experience a high packet error rate, you may slightly increase the Fragmentation Threshold. Setting the Fragmentation Threshold too low may result in poor network performance. Only minor reduction of the default value is recommended. In most cases, it should remain at its default value of **2346**.

RTS Threshold: Should you encounter inconsistent data flow, only minor reduction of the default value, **2347**, is recommended. If a network packet is smaller than the preset RTS threshold size, the RTS/CTS mechanism will not be enabled. The Router sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The RTS Threshold value should remain at its default value of **2347**.

Click **Apply** to save the setting.

6.3 Security

6.3.1 Security > Firewall

The screenshot shows the configuration interface for the AIRLINK 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security (selected), Access Restrictions, Applications & Gaming, Administration, and Status. Below the navigation bar, the 'Firewall' sub-tab is selected. The main content area is divided into three sections: SPI Firewall Protection, Internet Filter, and Web Filter. At the bottom, there are 'Apply' and 'Cancel' buttons.

Setup **Wireless** **Security** **Access Restrictions** **Applications & Gaming** **Administration** **Status**

Firewall VPN Passthrough

SPI Firewall Protection:

SPI Firewall Protection: **Enabled** **Disabled**

Internet Filter

Filter Anonymous Internet Requests

Filter Multicast

Filter Internet NAT Redirection

Filter IDENT (Port 113)

Web Filter

Proxy **Java** **ActiveX** **Cookies**

Apply **Cancel**

SPI Firewall Protection: Select to enable or disable Stateful Packet Inspection.

Internet Filter: Place a check to enable various Internet filter including Anonymous Internet Requests, Multicast packets, NAT Redirection, and IDNT port.

Web Filters: You can select to filter Proxy, Java, ActiveX, and/or Cookies.

Click **Apply** to save the setting.

6.3.2 Security > VPN Passthrough

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



Click **Apply** to save the setting.

6.4 Access Restrictions

6.4.1 Access Restrictions > Internet Access Policy

You can setup policies that deny or allow specific clients to access the Internet.

The screenshot shows the configuration page for the Internet Access Policy on an AIRLINK 101 AR725W Dual Band Wireless N Router. The page is divided into several sections for configuring access restrictions.

Navigation: Setup, Wireless, Security, **Access Restrictions**, Applications & Gaming, Administration, Status

Internet Access Policy

Access Policy: 10() [Delete This Entry] [Summary]

Enter Policy Name: [Text Field]

Status: Enabled Disabled

Applied PCs: [Edit List] (This Policy applies only to PCs on the List.)

Access Restriction: Deny Internet access during selected days and hours. Allow

Schedule: Days: Everyday Sun Mon Tue Wed Thu Fri Sat

Timing Control: 24 Hours 0 : 0 to 0 : 0

Website Blocking by URL Address: URL 1: [Text Field] URL 2: [Text Field]
URL 3: [Text Field] URL 4: [Text Field]

Website Blocking by Keyword: Keyword 1: [Text Field] Keyword 2: [Text Field]
Keyword 3: [Text Field] Keyword 4: [Text Field]

Blocked Applications: **Note:** Only three applications can be blocked per policy.

Applications	Blocked List
DNS (53-53) HTTP (80-80) HTTPS (443-443) FTP (21-21) POP3 (110-110) IMAP (143-143) SMTP (25-25) NNTP (119-119) SNMP (161-161) Telnet (23-23) Game (1000-1200) Ping (0-0)	[Empty List]

Application Name: [Text Field]
Port Range: [Text Field] to [Text Field]
Protocol: TCP

[Add] [Modify] [Delete]

[Apply] [Cancel]

Access Policy: Select a policy number from the drop down list.

Enter Policy Name: Enter a name for the policy.

Status: Choose to **Enable** or **Disable** the selected policy.

Applied PCs

Click on the **Edit List** button to specify the network clients. Policy only applies to the PCs that are in the list.

List of PCs				
MAC Address	01	<input type="text" value="00:00:00:00:00:00"/>	06	<input type="text" value="00:00:00:00:00:00"/>
	02	<input type="text" value="00:00:00:00:00:00"/>	07	<input type="text" value="00:00:00:00:00:00"/>
	03	<input type="text" value="00:00:00:00:00:00"/>	08	<input type="text" value="00:00:00:00:00:00"/>
	04	<input type="text" value="00:00:00:00:00:00"/>	09	<input type="text" value="00:00:00:00:00:00"/>
	05	<input type="text" value="00:00:00:00:00:00"/>	10	<input type="text" value="00:00:00:00:00:00"/>
IP Address	01	<input type="text" value="192.168.1.0"/>	04	<input type="text" value="192.168.1.0"/>
	02	<input type="text" value="192.168.1.0"/>	05	<input type="text" value="192.168.1.0"/>
	03	<input type="text" value="192.168.1.0"/>	06	<input type="text" value="192.168.1.0"/>
IP Address Range	01	<input type="text" value="192.168.1.0"/> ~ <input type="text" value="0"/>	03	<input type="text" value="192.168.1.0"/> ~ <input type="text" value="0"/>
	02	<input type="text" value="192.168.1.0"/> ~ <input type="text" value="0"/>	04	<input type="text" value="192.168.1.0"/> ~ <input type="text" value="0"/>
<input type="button" value="Save Settings"/> <input type="button" value="Cancel Changes"/> <input type="button" value="Close"/>				

You can specify each client by its MAC Address or IP Address. You can also specify a group of clients by entering their IP Address Range. Once you have specified all the clients, click **Save Settings**.

Access Restriction & Schedule

Select to **Deny** or **Allow** the specified clients to access the Internet by **Day** and **Time**.

Access restriction	<input checked="" type="radio"/> Deny	Internet access during selected days and hours.
	<input type="radio"/> Allow	
Schedule	Days: <input checked="" type="checkbox"/> Everyday <input type="checkbox"/> Sun <input type="checkbox"/> Mon <input type="checkbox"/> Tue <input type="checkbox"/> Wed <input type="checkbox"/> Thu <input type="checkbox"/> Fri <input type="checkbox"/> Sat	
	Times: <input checked="" type="radio"/> 24 Hours <input type="radio"/> <input type="text" value="00"/> : <input type="text" value="00"/> ~ <input type="text" value="00"/> : <input type="text" value="00"/>	

Website Blocking

You can block the specified clients from accessing certain websites by URL or Keyword. Enter the URL or the Keyword you wish to block.

Website Blocking by URL Address	URL 1:	<input type="text"/>	URL 2:	<input type="text"/>
	URL 3:	<input type="text"/>	URL 4:	<input type="text"/>
Website Blocking by Keyword	Keyword 1:	<input type="text"/>	Keyword 2:	<input type="text"/>
	Keyword 3:	<input type="text"/>	Keyword 4:	<input type="text"/>

Click **Apply** to save the setting.

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

The screenshot shows the web interface of an AIRLINK 101 AR725W Dual Band Wireless N Router. The 'Access Restrictions' tab is selected and highlighted with a red box. Below the navigation tabs, the 'Internet Access Policy' section is visible. It shows a dropdown menu for 'Access Policy' set to '10()', a 'Delete This Entry' button, and a 'Summary' button which is also highlighted with a red box.

Blocked Applications

After you selected **Allow** Internet accessing for Access Restriction, you can configure the Internet applications you want to block.

Select application port you want to block and click >> button to add it into Blocked List when the specified PCs have Internet access. Click << button to remove applications from the Blocked List.

If you have a custom application, manually enter its name, port range, protocol and click **Add** to add it into the "Applications" List

Access Restriction Deny Allow Internet access during selected days and hours.

Schedule Days: Everyday Sun Mon Tue Wed Thu Fri Sat

Timing Control: 24 Hours 0 : 0 to 0 : 0

Website Blocking by URL Address URL 1: URL 2:
URL 3: URL 4:

Website Blocking by Keyword Keyword 1: Keyword 2:
Keyword 3: Keyword 4:

Blocked Applications

Note: Only three applications can be blocked per policy.

Applications	Blocked List
FTP (21-21)	HTTP (80-80)
POP3 (110-110)	HTTPS (443-443)
IMAP (143-143)	
SMTP (25-25)	
NNTP (119-119)	
SNMP (161-161)	
Telnet (23-23)	
Game (1000-1200)	
Ping (0-0)	
TFTP (69-69)	
IKE (500-500)	
Gaming (1099-1099)	

Application Name	Gaming
Port Range	1099 to 1099
Protocol	Both

Add Modify Delete

Apply Cancel

Click **Apply** to save the settings.

6.5 Applications & Gaming

6.5.1 Applications & Gaming > Single Port 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 single port forwarding for the specified applications.

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

The screenshot shows the configuration page for the AIRLINK 101 AR725W Dual Band Wireless N Router. The 'Applications & Gaming' tab is selected, and the 'Single Port Forwarding' sub-tab is active. The page features a table for configuring port forwarding rules. The table has columns for External Port, Internal Port, Protocol, To IP address, and Enabled. The first row is pre-filled with HTTP, External Port 80, Internal Port 80, Protocol TCP, and To IP address 192.168.1.240. Other rows are empty or have default values. Below the table are 'Apply' and 'Cancel' buttons.

Application Name	External Port	Internal Port	Protocol	To IP address	Enabled
HTTP	80	80	TCP	192 . 168 . 1 . 240	<input type="checkbox"/>
None	---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
None	---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
None	---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
None	---	---	---	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>
	0	0	Both	192 . 168 . 1 . 0	<input type="checkbox"/>

Application Name: Select or enter an **Application Name**.

External Port/ Internal Port: If you are only forwarding one port, you can put the same port number in both the **Start** and **End Port** boxes.

Protocol: If you are not sure which one to choose, select both.

To IP Address: This should be the IP address of the computer you want to forward the ports to.

Make sure that you check the **Enabled** box to activate the setting, then click **Apply** to save the settings.

6.5.2 Applications & Gaming > 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 range forwarding for the specified applications.

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

The screenshot shows the configuration interface for the AirLink 101 AR725W Dual Band Wireless N Router. The page is titled "Port Range Forwarding" and is part of the "Applications & Gaming" section. The interface includes a navigation menu at the top with tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. Under "Applications & Gaming", there are sub-tabs for Single Port Forwarding, Port Range Forwarding (which is selected), Port Range Triggering, DMZ, and QoS. The main content area is titled "Port Range Forwarding" and features a table with columns for "Start ~ End Port", "Protocol", "To IP address", and "Enabled". The table has 11 rows, with the first row pre-filled with "80" for both start and end ports, "Both" for the protocol, and "192.168.1.240" for the IP address. The remaining 10 rows have "0" for both start and end ports, "Both" for the protocol, and "192.168.1.0" for the IP address. Each row has an "Enabled" checkbox. To the left of the table is a list of "Application Name" input fields. At the bottom of the page, there are "Apply" and "Cancel" buttons.

Start ~ End Port	Protocol	To IP address	Enabled
80 to 80	Both	192.168.1.240	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>
0 to 0	Both	192.168.1.0	<input type="checkbox"/>

Apply Cancel

Application Name: Enter an **Application Name**.

External Port/ Internal Port: If you are only forwarding one port, you can put the same port number in both the **Start** and **End** Port boxes.

Protocol: If you are not sure which protocol to choose, select both.

To IP Address: This should be the IP address of the computer you want to forward the ports to.

Make sure that you check the **Enabled** box to activate the setting, then click **Apply** to save the settings.

6.5.3 Applications & Gaming > 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 the AirLink 101 AR725W Dual Band Wireless N Router. The navigation menu includes Setup, Wireless, Security, Access Restrictions, Applications & Gaming (selected), Administration, and Status. Under Applications & Gaming, the sub-menu includes Single Port Forwarding, Port Range Forwarding, Port Range Triggering (highlighted), DMZ, and QoS. The Port Range Triggering section contains a table with the following columns: Application Name, Triggered Range, Forwarded Range, and Enabled. There are 10 rows in the table, each with empty input fields for the Application Name, Triggered Range (0 to 0), Forwarded Range (0 to 0), and an unchecked Enabled checkbox.

Application Name	Triggered Range	Forwarded Range	Enabled
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>
	0 to 0	0 to 0	<input type="checkbox"/>

Apply Cancel

Application Name: Enter an **Application Name** of the trigger.

Triggered Range

For each application, list the triggered port number range. Check with the Internet application documentation for the port number(s) needed.

Start Port: Enter the starting port number of the Triggered Range.

End Port: Enter the ending port number of the Triggered Range.

Forwarded Range

For each application, list the forwarded port number range. Check with the Internet application documentation for the port number(s) needed.

Start Port: Enter the starting port number of the Forwarded Range.

End Port: Enter the ending port number of the Forwarded Range.

Enabled Select **Enabled** to enable port triggering for the applicable application.

Make sure that you check the **Enabled** box to activate the setting, then click **Apply** to save the settings.

Click **Apply** to save the setting.

6.5.4 Applications & Gaming > DMZ

DMZ (De-Militarized Zone) 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.

AIRLINK[®] 101 **AR725W**
Dual Band Wireless N Router

Setup | Wireless | Security | Access Restrictions | **Applications & Gaming** | Administration | Status

Single Port Forwarding | Port Range Forwarding | Port Range Triggering | **DMZ** | QoS

DMZ

Enabled Disabled

Source IP Address: Any IP Address
 0 . 0 . 0 . 0 to 0

Destination: IP Address: 192 . 168 . 1 .
 MAC Address: 00:00:00:00:00:00

DMZ: Select to enable or disable DMZ.

Source IP Address: Select any source IP address or specify a source IP address.

Destination: Specify the Destination by its IP Address or MAC 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** to save the setting.

6.5.5 Applications & Gaming > QoS

QoS (Quality of Service) manages information as it is transmitted and received. It ensures better service to those applications with a higher priority.

Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration	Status
Single Port Forwarding		Port Range Forwarding		Port Range Triggering		QoS

QoS (Quality of Service)

Wireless WMM Support: Enabled Disabled (Default: Enabled)
 No Acknowledgement: Enabled Disabled (Default: Disabled)

Internet Access Priority Enabled Disabled

Category Applications

Applications	MSN Messenger
Priority	Medium (Recommend)

Priority	Name	Information		
High	VoIP	MAC Address 2C:1D:F3:13:15:88	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>
Medium	Counter Strike	---	<input type="button" value="Remove"/>	
Low	P2P Download	Port 1099-1299 TCP	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>

Wireless

WMM Support: WMM is a wireless Quality of Service feature that improves quality for audio, video, and voice applications by prioritizing wireless traffic. To use this feature, your wireless client devices in your network must support Wireless WMM.

No Acknowledgement: If you want to disable the Router's Acknowledgement feature, so the Router will not re-send data if an error occurs, select Enabled. Otherwise, keep the default, Disabled.

Internet Access Priority

Enabled/Disabled: To use the QoS policies you set, select Enabled. Otherwise, select Disabled.

Category

There are four categories available. Select one of the following: Applications, Online Games, MAC Address, Ethernet Port, or Voice Device.

Applications

QoS (Quality of Service)

Wireless WMM Support: **Enabled** **Disabled** (Default: Enabled)
No Acknowledgement: **Enabled** **Disabled** (Default: Disabled)

Internet Access Priority: **Enabled** **Disabled**

Category: **Applications** (dropdown menu)

Applications	MSN Messenger (dropdown menu)
Priority	Medium (Recommend) (dropdown menu)

Add (button)

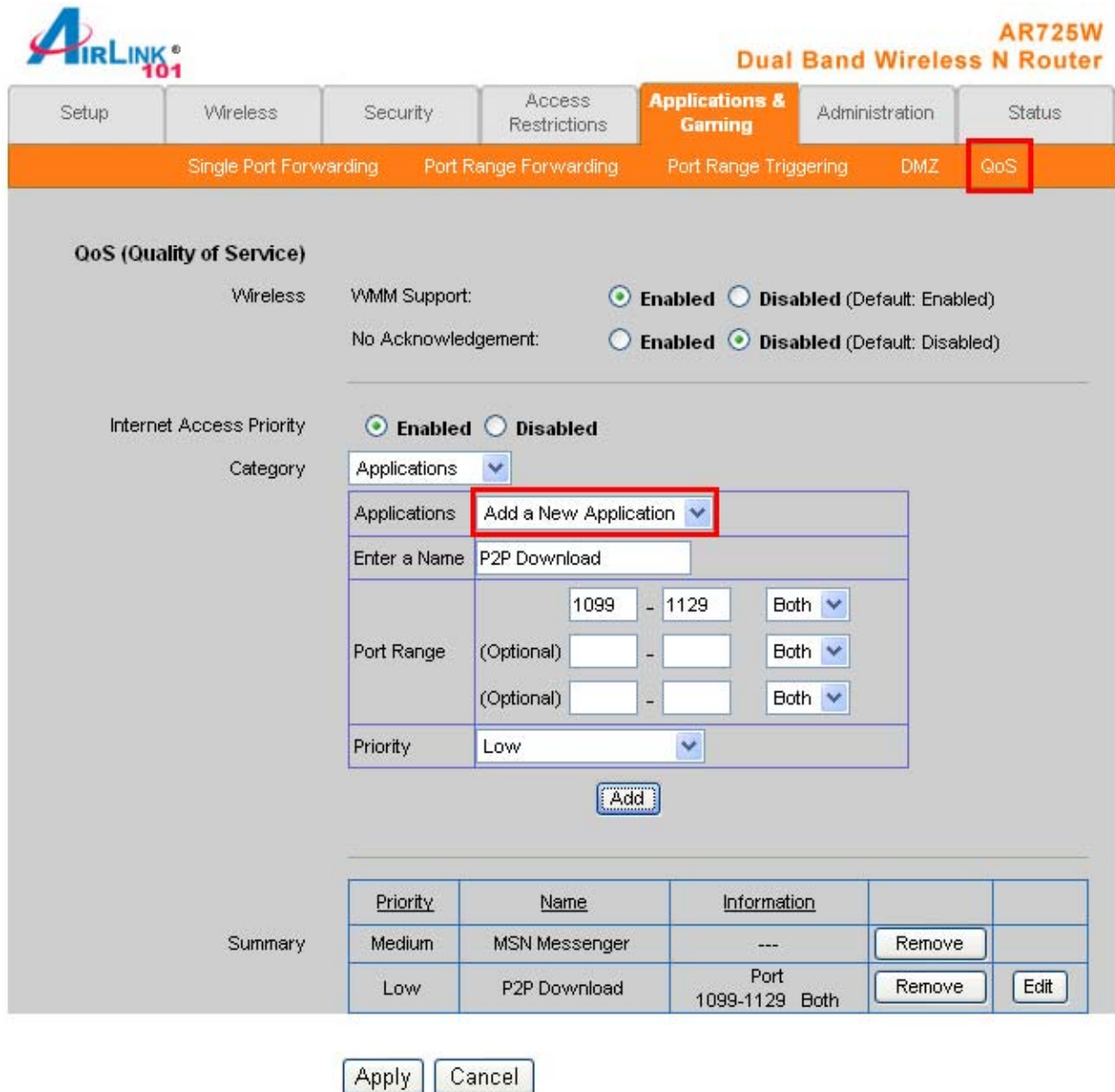
Priority	Name	Information	
Medium	MSN Messenger	---	Remove (button)

Apply (button) **Cancel** (button)

Applications: Select the appropriate application. If you select *Add a New Application*, follow the instructions in the “Add a New Application” section.

Priority: Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes. Your new entry will appear in the Summary list.

Add a New Application



QoS (Quality of Service)

Wireless WMM Support: **Enabled** **Disabled** (Default: Enabled)
No Acknowledgement: **Enabled** **Disabled** (Default: Disabled)

Internet Access Priority: **Enabled** **Disabled**

Category: Applications

Applications: Add a New Application

Enter a Name: P2P Download

Port Range: 1099 - 1129 Both

Priority: Low

Add

Priority	Name	Information		
Medium	MSN Messenger	---	Remove	
Low	P2P Download	Port 1099-1129 Both	Remove	Edit

Apply **Cancel**

Enter a Name: Enter a name for this application.

Port Range: Enter the port range that the application will be using. For example, if you want to allocate bandwidth for FTP, you can enter 21-21. Select the protocol **TCP** or **UDP**, or select **Both**.

Priority: Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

Online Games

AIRLINK
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AR725W
Dual Band Wireless N Router

Setup Wireless Security Access Restrictions **Applications & Gaming** Administration Status

Single Port Forwarding Port Range Forwarding Port Range Triggering DMZ **QoS**

QoS (Quality of Service)

Wireless WMM Support: **Enabled** **Disabled** (Default: Enabled)
No Acknowledgement: **Enabled** **Disabled** (Default: Disabled)

Internet Access Priority **Enabled** **Disabled**

Category **Online Games** ▼

Games	Counter Strike ▼
Priority	Medium (Recommend) ▼
<input type="button" value="Add"/>	

Summary

Priority	Name	Information		
Medium	MSN Messenger	---	<input type="button" value="Remove"/>	
Low	P2P Download	Port 1099-1129 Both	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>
Medium	Counter Strike	---	<input type="button" value="Remove"/>	

Games: Select the appropriate game.

Priority: Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

MAC Address

QoS (Quality of Service)

Wireless WMM Support: **Enabled** **Disabled** (Default: Enabled)
No Acknowledgement: **Enabled** **Disabled** (Default: Disabled)

Internet Access Priority: **Enabled** **Disabled**

Category: **MAC Address** My Current PC's MAC Address: **00:40:F4:8D:48:83**

Enter a Name	PC1
MAC Address	08:EF:23:00:21:6A
Priority	Normal
<input type="button" value="Add"/>	

Summary

Priority	Name	Information		
Medium	MSN Messenger	---	<input type="button" value="Remove"/>	
Low	P2P Download	Port 1099-1129 Both	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>
Medium	Counter Strike	---	<input type="button" value="Remove"/>	
Normal	PC1	MAC Address 08:EF:23:00:21:6A	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>

Enter a Name Enter a name for your network device.

MAC Address Enter the MAC address of your network device.

Priority Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

Ethernet Port

The screenshot shows the configuration interface for the AIRLINK 101 AR725W Dual Band Wireless N Router. The 'Applications & Gaming' tab is selected, and the 'QoS' sub-tab is active. The 'QoS (Quality of Service)' section is expanded to show 'Wireless' settings. Under 'Internet Access Priority', the 'Category' is set to 'Enabled'. A dropdown menu is open for 'Ethernet Port', showing options for Ethernet Port 1, 2, 3, and 4. The 'Ethernet Port 1' option is selected. Below the dropdown, there is a table with columns for 'Priority', 'Name', and 'Information'. At the bottom of the page, there are 'Apply' and 'Cancel' buttons.

QoS (Quality of Service)

Wireless

WMM Support: Enabled Disabled (Default: Enabled)

No Acknowledgement: Enabled Disabled (Default: Disabled)

Internet Access Priority

Category: Enabled Disabled

Ethernet Port: **Ethernet Port** ▼

Ethernet	Ethernet Port 1 ▼	
Priority	Ethernet Port 1	(nd) ▼
	Ethernet Port 2	
	Ethernet Port 3	
	Ethernet Port 4	

Priority	Name	Information		
----------	------	-------------	--	--

Summary

Apply Cancel

Ethernet: Select the Ethernet port that you want to configure.

Priority: Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

Voice Device

AIRLINK
101

AR725W
Dual Band Wireless N Router

Setup Wireless Security Access Restrictions **Applications & Gaming** Administration Status

Single Port Forwarding Port Range Forwarding Port Range Triggering DMZ **QoS**

QoS (Quality of Service)

Wireless WMM Support: **Enabled** **Disabled** (Default: Enabled)
No Acknowledgement: **Enabled** **Disabled** (Default: Disabled)

Internet Access Priority: **Enabled** **Disabled**

Category: **Voice Device** My Current PC's MAC Address: **00:40:F4:8D:48:83**

Enter a Name	VoIP #1
MAC Address	00:1D:6F:3B:06:EA
Priority	High (Recommend)
<input type="button" value="Add"/>	

Summary

Priority	Name	Information		
Medium	MSN Messenger	---	<input type="button" value="Remove"/>	
Low	P2P Download	Port 1099-1129 Both	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>
Medium	Counter Strike	---	<input type="button" value="Remove"/>	
Normal	PC1	MAC Address 08:EF:23:00:21:6A	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>
High	VoIP #1	MAC Address 00:1D:6F:3B:06:EA	<input type="button" value="Remove"/>	<input type="button" value="Edit"/>

Enter a Name: Enter a name for your voice device such as VoIP or IP Phone.

MAC Address: Enter the MAC address of your voice device.

Priority: Select the appropriate priority: **High**, **Medium**, **Normal**, or **Low**. Click **Add** to save your changes.

Click **Apply** to save the setting.

Summary

Summary shows the configuration for various application priorities. You can Remove or Edit the configuration from this list.

6.6 Administration

6.6.1 Administration > Management

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

The screenshot shows the web interface for the AIRLINK 101 AR725W Dual Band Wireless N Router. The 'Administration' tab is selected, and the 'Management' sub-tab is active. The page is divided into several sections:

- Router Access:** Fields for 'Router Password' and 'Re-enter to confirm', both masked with dots.
- Web Access:** Radio buttons for 'Web Utility Access' (selected: HTTP) and 'Web Utility Access via Wireless' (selected: Enabled).
- Remote Access:** Radio buttons for 'Remote Management' (selected: Disabled), 'Web Utility Access' (selected: HTTP), and 'Remote Upgrade' (selected: Disabled). Below these is a field for 'Allow Remote IP Address' (selected: Any IP Address) and a 'Remote Management Port' field (value: 8080).
- UPnP:** Radio buttons for 'UPnP' (selected: Enabled), 'Allow Users to Configure' (selected: Enabled), and 'Allow Users to Disable Internet Access' (selected: Disabled).
- Backup and Restore:** Two buttons: 'Backup Configurations' and 'Restore Configurations'.

Apply Cancel

Router Password: Set the router's log in password.

Web Access: Select to enable or disable HTTPs and Wireless access for the Web Configuration Utility.

Remote 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.

Backup and Restore Configurations: 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.

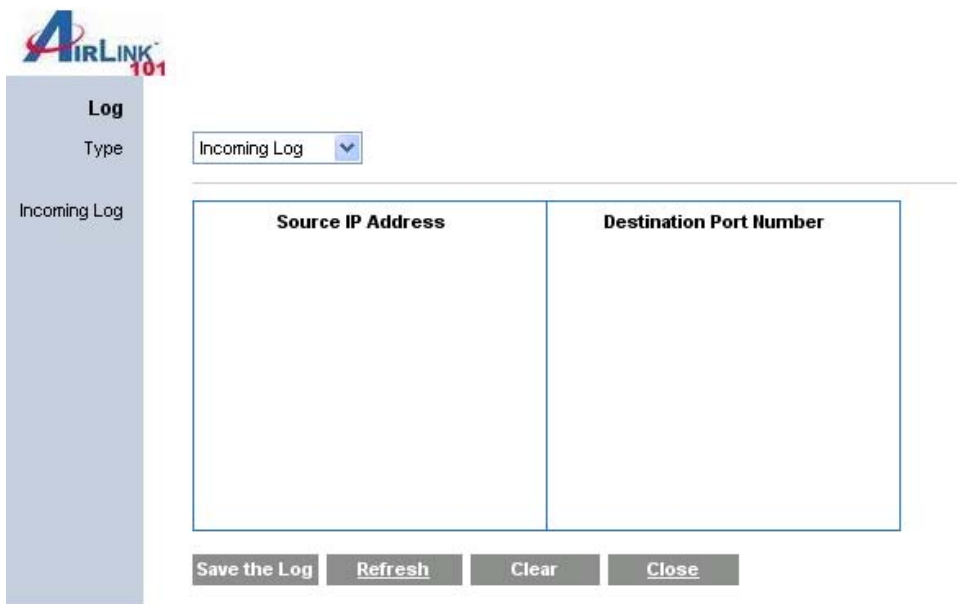
UPnP: Universal Plug and Play (UPnP) allows Windows Me and XP to automatically configure the router for various Internet applications, such as gaming and videoconferencing.

6.6.2 Administration > Log

You can choose to **Enable** or **Disable** logging of your network activity on this screen. Click **Apply** to save the setting.

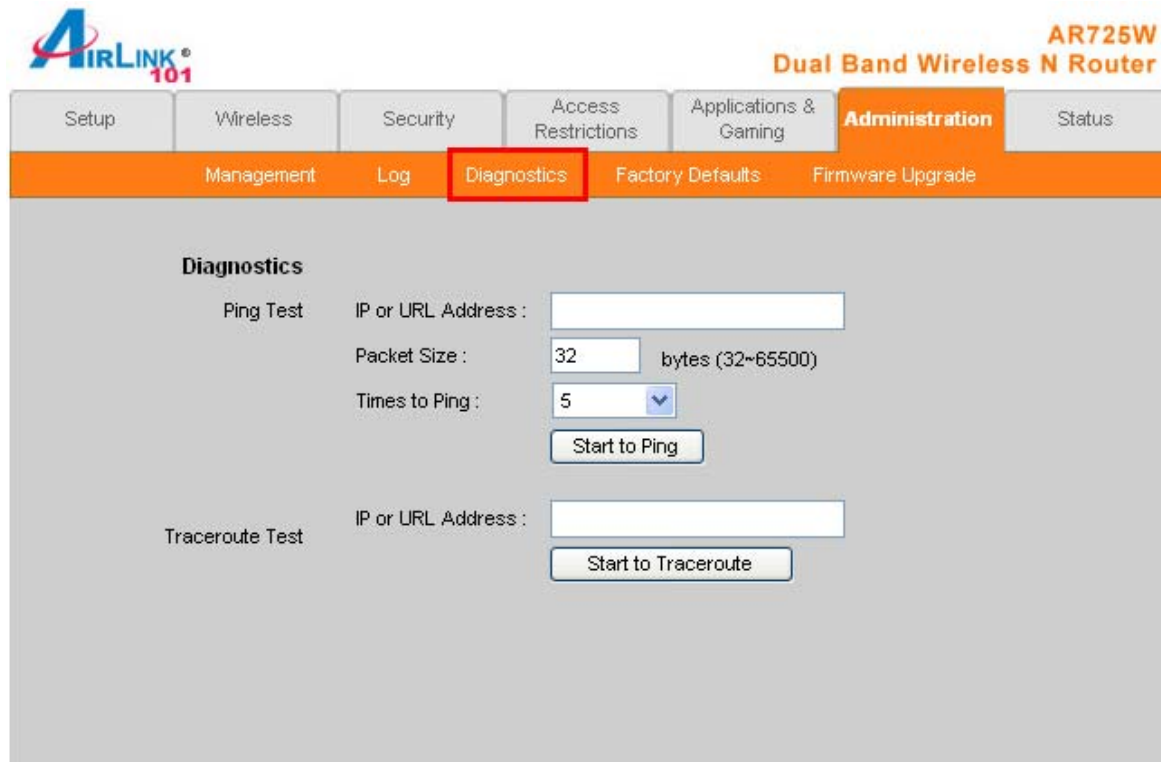
The screenshot shows the web interface of an AirLink 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration (highlighted), and Status. Below this is a secondary navigation bar with links for Management, Log (highlighted with a red box), Diagnostics, Factory Defaults, and Firmware Upgrade. The main content area is titled "Log" and features two radio buttons: "Enabled" (selected) and "Disabled". A "View Log" button is positioned below the radio buttons. At the bottom of the page, there are "Apply" and "Cancel" buttons.

Click **View Log** to view the detailed log.



6.6.3 Administration > Diagnostics

The Diagnostics screen allows you to perform Ping and Traceroute tests.

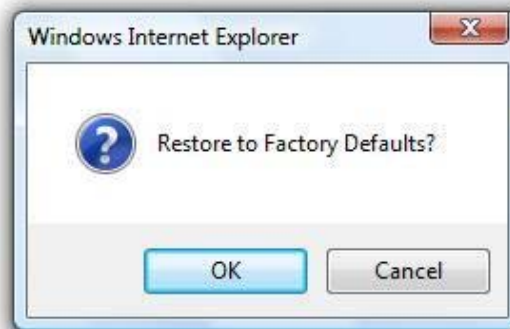


Ping Test: Enter the IP or URL Address you wish to ping and click **Start to Ping**.

Traceroute: Enter the IP or URL Address you wish to trace and click **Start to Traceroute**.

6.6.4 Administration > Factory Defaults

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



Click on the **Restore Factory Defaults** button to restore all the settings to default and click **OK** to continue.

6.6.5 Administration > Firmware Upgrade

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

The screenshot shows the web interface of an AirLink 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration (highlighted), and Status. Below this, a secondary navigation bar contains Management, Log, Diagnostics, Factory Defaults, and Firmware Upgrade (highlighted with a red box). The main content area is titled "Firmware Upgrade" and contains the following elements:

- A text prompt: "Please select a file to upgrade:" followed by a text input field and a "Browse..." button.
- A "Start to Upgrade" button.
- A red warning message: "Warning: Upgrading firmware may take a few minutes, please don't turn off the power or press the reset button."
- A progress bar showing 0% completion.
- A red warning message: "Upgrade must NOT be interrupted !!"

You must download and unzip the new firmware first from www.airlink101.com

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

6.7 Status

6.7.1 Status > Router

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

The screenshot displays the web interface of an Airlink 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The Status tab is selected, and the Router sub-tab is active. The main content area is divided into two sections: Router Information and Internet Connection.

Router Information

Firmware Version:	1.0.01
Current Time:	Wed Oct 15 12:32:02 2008 (GMT -08:00)
Internet MAC Address:	00:90:4B:30:00:07
Host Name:	AR725W
Domain Name:	Airlink101

Internet Connection

Connection Type:	Automatic Configuration - DHCP
Internet IP Address:	192.168.12.102
Subnet Mask:	255.255.255.0
Default Gateway:	192.168.12.1
DNS 1:	192.168.1.1
DNS 2:	0.0.0.0
DNS 3:	0.0.0.0
MTU:	Auto

Buttons: IP Address Release, IP Address Renew, Refresh

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

6.7.2 Status > Local Network

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



The screenshot shows the web interface of an AirLink 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The 'Local Network' tab is selected and highlighted. Below the navigation bar, the 'Local Network' section displays the following information:

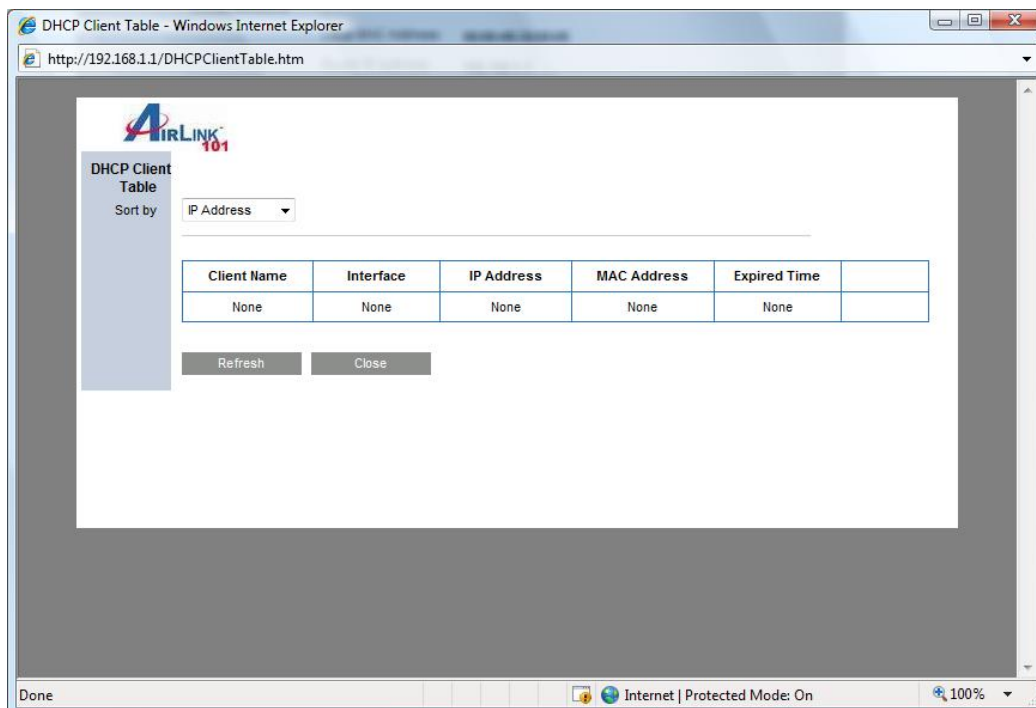
- Local MAC Address: 00:90:4B:30:00:06
- Router IP Address: 192.168.1.1
- Subnet Mask: 255.255.255.0

Below this, the 'DHCP Server' section shows:

- DHCP Server: Enabled
- Start IP Address: 192.168.1.100
- End IP Address: 192.168.1.149

A button labeled 'DHCP Client Table' is located below the DHCP Server information.

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



The screenshot shows a web browser window displaying the 'DHCP Client Table' page. The browser's address bar shows the URL 'http://192.168.1.1/DHCPClientTable.htm'. The page features the AirLink 101 logo and a 'Sort by' dropdown menu set to 'IP Address'. Below the menu is a table with the following columns: Client Name, Interface, IP Address, MAC Address, and Expired Time. The table currently contains one row with 'None' in all columns. At the bottom of the table are 'Refresh' and 'Close' buttons.

Client Name	Interface	IP Address	MAC Address	Expired Time
None	None	None	None	None

6.7.3 Status > Wireless Network

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

The screenshot shows the web interface of an AIRLINK 101 AR725W Dual Band Wireless N Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The Status tab is selected and highlighted. Below the navigation bar, there are sub-tabs for Router, Local Network, and Wireless Network, with the Wireless Network sub-tab selected. The main content area displays the following wireless network settings:

Wireless Network	
MAC Address:	00:90:4B:30:00:06
Mode:	BGN-Mixed
Network Name (SSID):	default
Radio Band:	Auto - 20/40MHz Channel
Wide Channel:	Auto
Standard Channel:	Auto
Security:	Disabled
SSID Broadcast:	Enabled

7. Specifications

Standards

- IEEE 802.11n draft 2.0
- IEEE 802.11a / b / g

Frequency

- 2.4 / 5 GHz (Switchable)

Ports

- 1 x 10/100Mbps WAN port
- 4 x 10/100Mbps LAN port

Antenna type

- 3 Internal 2 dBi antennas

Security

- WPA2, WPA, WEP 64/128-bit
- Wireless MAC Filter
- AP Isolation

LEDs

- Power, Internet, Wireless, LAN1~4, WPS

Advanced Features

- Quality of Service (QoS)
- Stateful Packet Inspection (SPI) / DoS
- VPN Pass-through
- UPnP

WiFi Protected Setup

- PIN (Personal Identification Number)
- PBC (Push button configuration)

System Requirement

- Windows®, Mac®, or Linux® operating system
- Installed Ethernet adapter
- Recommended use with AWLL7025

Power

- Input: 100~240V AC, 50~60Hz
- Output: 12V / 1A

Dimensions

- 179 x 132 x 28 mm

Temperature

- Operating: 0°C to 40°C

Humidity

- 10% to 95% Non-Condensing

Warranty

- Limited 1-year warranty

Certification

- FCC, CE, C-Tick, UL, TUV

Appendix – Information

Federal Communication Commission Interference Statement

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 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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR compliance has been established in typical laptop computer(s) with CardBus slot, and product could be used in typical laptop computer with CardBus slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device

Caution:

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

IMPORTANT NOTE: IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- **EN60950-1: 2006**
Safety of Information Technology Equipment
- **EN50385 : (2002-08)**
Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public
- **EN 300 328 V1.7.1: (2006-10)**
Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- **EN 301 893 V1.4.1: (2007-07)**







- Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive
EN 301 489-1 V1.6.1: (2005-09)
Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- **EN 301 489-17 V1.2.1 (2002-08)**
- Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

CE 0560

 Český [Czech]	<i>[Jméno výrobce]</i> tímto prohlašuje, že tento <i>[typ zařízení]</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
 Dansk [Danish]	Undertegnede <i>[fabrikantens navn]</i> erklærer herved, at følgende udstyr <i>[udstyrets typebetegnelse]</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
 Deutsch [German]	Hiermit erkläre <i>[Name des Herstellers]</i> , dass sich das Gerät <i>[Gerätetyp]</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
 Eesti [Estonian]	Käesolevaga kinnitab <i>[tootja nimi = name of manufacturer]</i> seadme <i>[seadme tüüp = type of equipment]</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
 English	Hereby, <i>[name of manufacturer]</i> , declares that this <i>[type of equipment]</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
 Español [Spanish]	Por medio de la presente <i>[nombre del fabricante]</i> declara que el <i>[clase de equipo]</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

[el] Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [<i>name of manufacturer</i>] ΔΗΛΩΝΕΙ ΟΤΙ [<i>type of equipment</i>] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.
[fr]Français [French]	Par la présente [<i>nom du fabricant</i>] déclare que l'appareil [<i>type d'appareil</i>] est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
[it]Italiano [Italian]	Con la presente [<i>nome del costruttore</i>] dichiara che questo [<i>tipo di apparecchio</i>] è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo [<i>name of manufacturer / izgatavotāja nosaukums</i>] deklarē, ka [<i>type of equipment / iekārtas tips</i>] atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo [<i>manufacturer name</i>] deklaruoja, kad šis [<i>equipment type</i>] atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
[nl] Nederlands [Dutch]	Hierbij verklaart [<i>naam van de fabrikant</i>] dat het toestel [<i>type van toestel</i>] in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
[mt]Malti [Maltese]	Hawnhekk, [<i>isem tal-manifattur</i>], jiddikjara li dan [<i>il-mudel tal-prodott</i>] jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Direttiva 1999/5/EC.
[hu]Magyar [Hungarian]	Alulírott, [<i>gyártó neve</i>] nyilatkozom, hogy a [<i>... típus</i>] megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
[pl]Polski [Polish]	Niniejszym [<i>nazwa producenta</i>] oświadczam, że [<i>nazwa wyrobu</i>] jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
[pt] Português [Portuguese e]	[<i>Nome do fabricante</i>] declara que este [<i>tipo de equipamento</i>] está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
[sl] Slovensko [Slovenian]	[<i>Ime proizvajalca</i>] izjavlja, da je ta [<i>tip opreme</i>] v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	[<i>Meno výrobcu</i>] týmto vyhlasuje, že [<i>typ zariadenia</i>] spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
[fi]Suomi [Finnish]	[<i>Valmistaja = manufacturer</i>] vakuuttaa täten että [<i>type of equipment = laitteen tyyppimerkintä</i>] tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
[sv]Svenska [Swedish]	Härmed intygar [<i>företag</i>] att denna [<i>utrustningstyp</i>] står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Technical Support

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*Theoretical maximum wireless signal rate derived from IEEE standard 802.11g and draft 802.11n 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. This product is based on IEEE draft 802.11n specification and is not guaranteed to be compatible with future versions of IEEE 802.11n specification. Compatibility with draft 802.11n devices from other manufactures is not guaranteed. Specifications are subject to change without notice. Photo of product may not reflect actual content. All products and trademarks are the property of their respective owners. Copyright ©2009 Airlink101®

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