

AIRLINK™ 101



Super G Wireless Broadband Router

Model # AR420W

Quick Installation Guide

Section 1

This Quick Installation Guide only provides the basic instructions. For more detailed information, please refer to the User's Manual in the supplied CD.

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 **Internet** port of the router and connect the other end of the cable to the DSL/Cable modem.

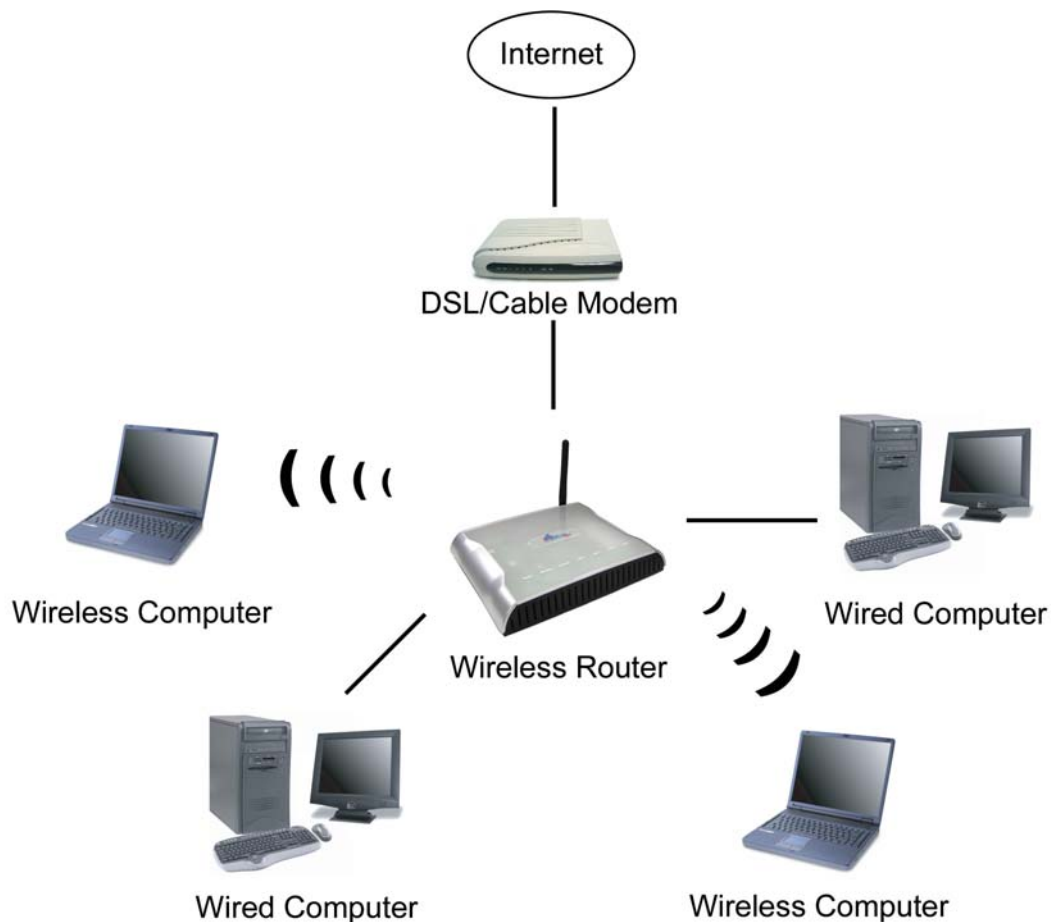
Step 2 With another network cable, connect one end of the cable to your computer's network card and connect the other end to one of the **LAN** ports of the router.

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

Step 4 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 **Internet**, **Wireless**, and the **LAN** port that the computer is connected to are lit. If not, try the above steps again.

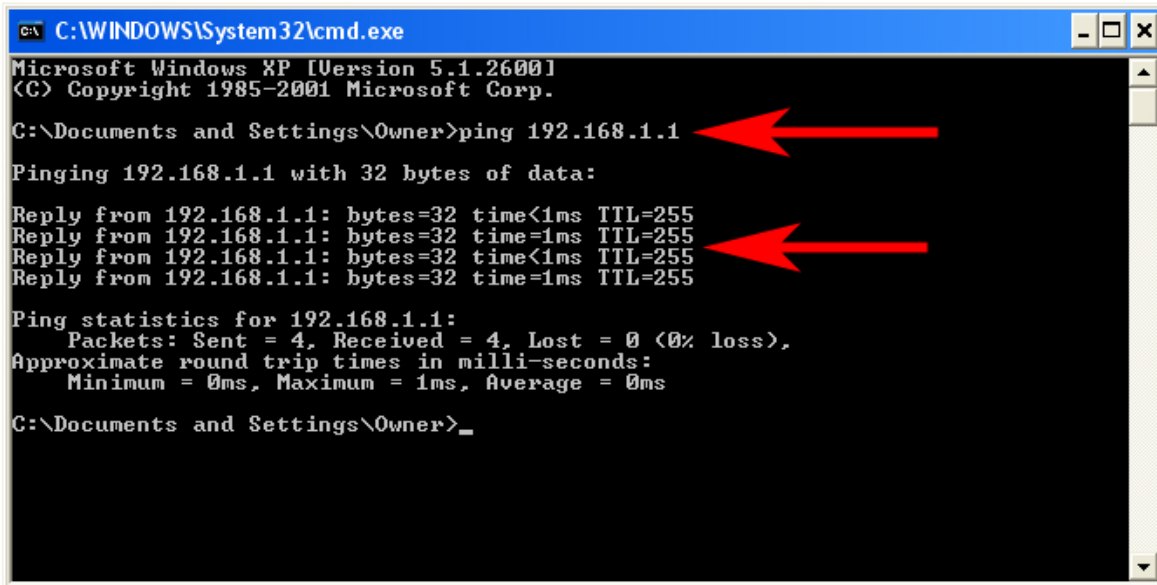


Section 2

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.

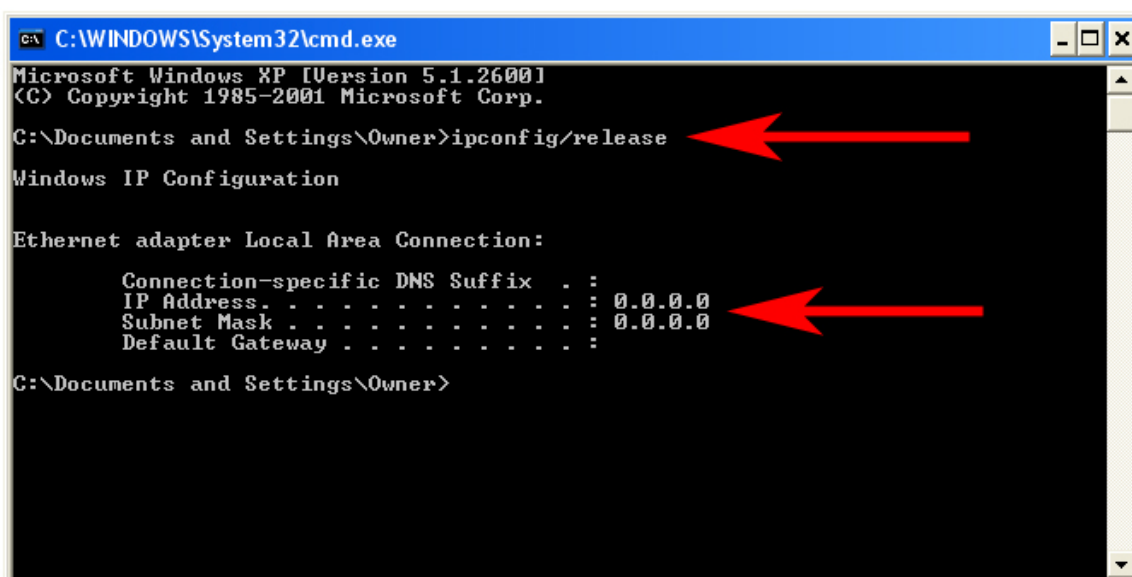
C:\Documents and Settings\Owner>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255

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, Configuring 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.

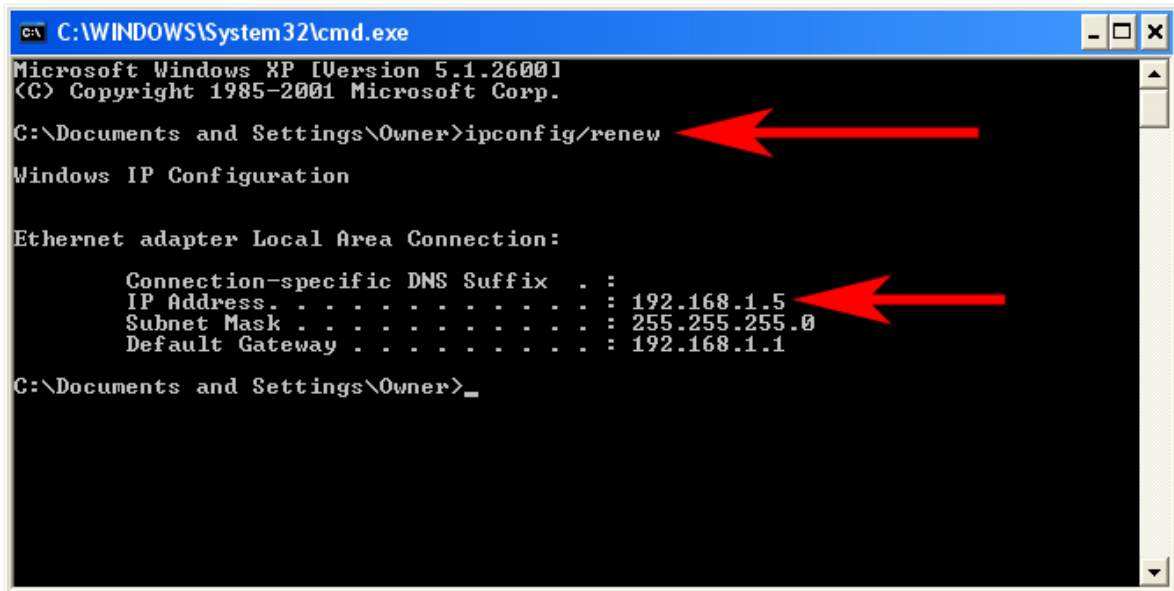
C:\Documents and Settings\Owner>ipconfig/release
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . :
    IP Address . . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . :

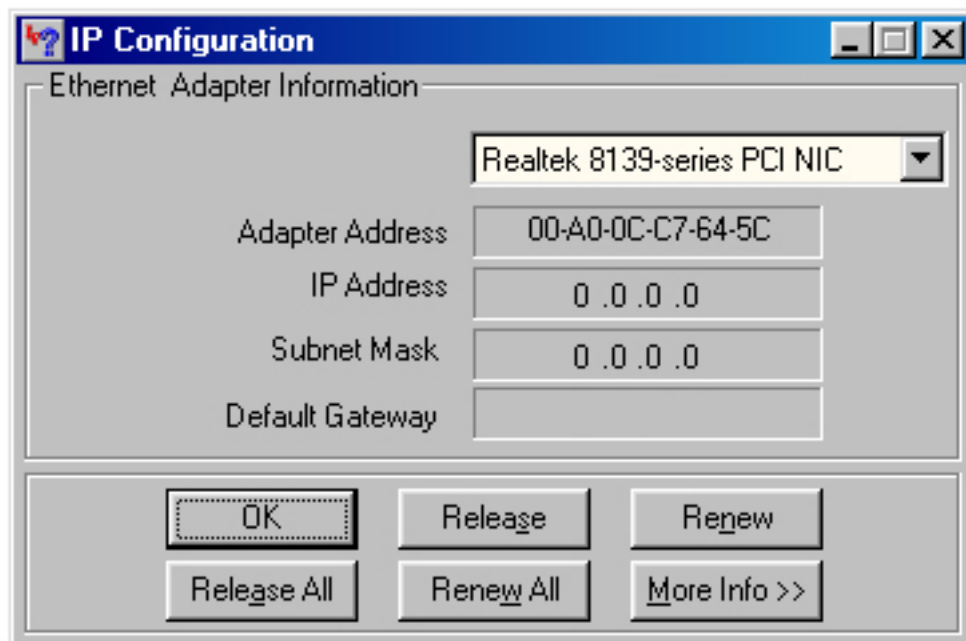
C:\Documents and Settings\Owner>
```

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, Configuring 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.

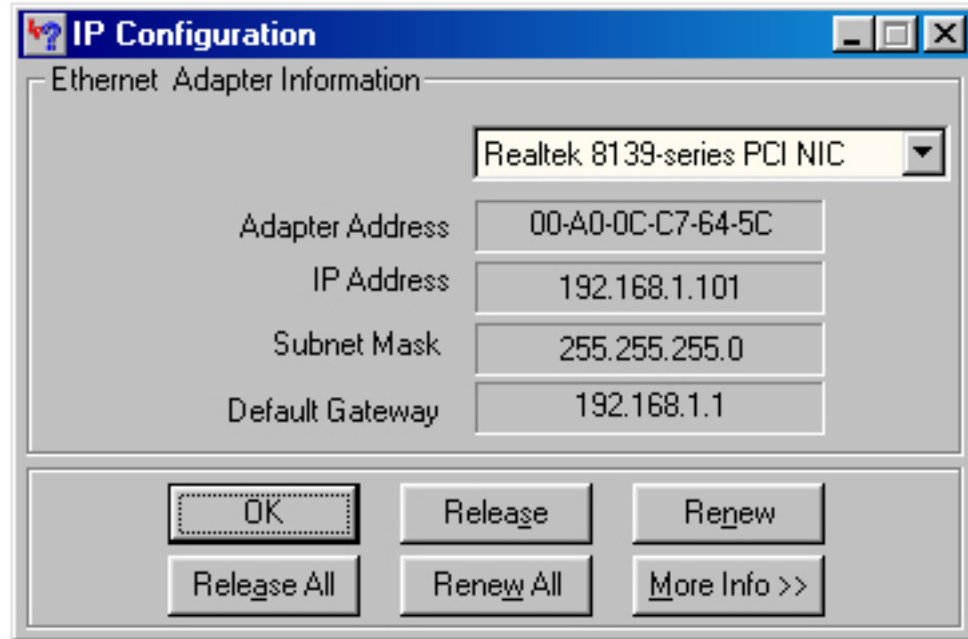


Step 6 For Windows 95/98/ME go to **Start, Run**, type **winipcfg** and click **OK**.

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.



Section 3

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 **OK**.



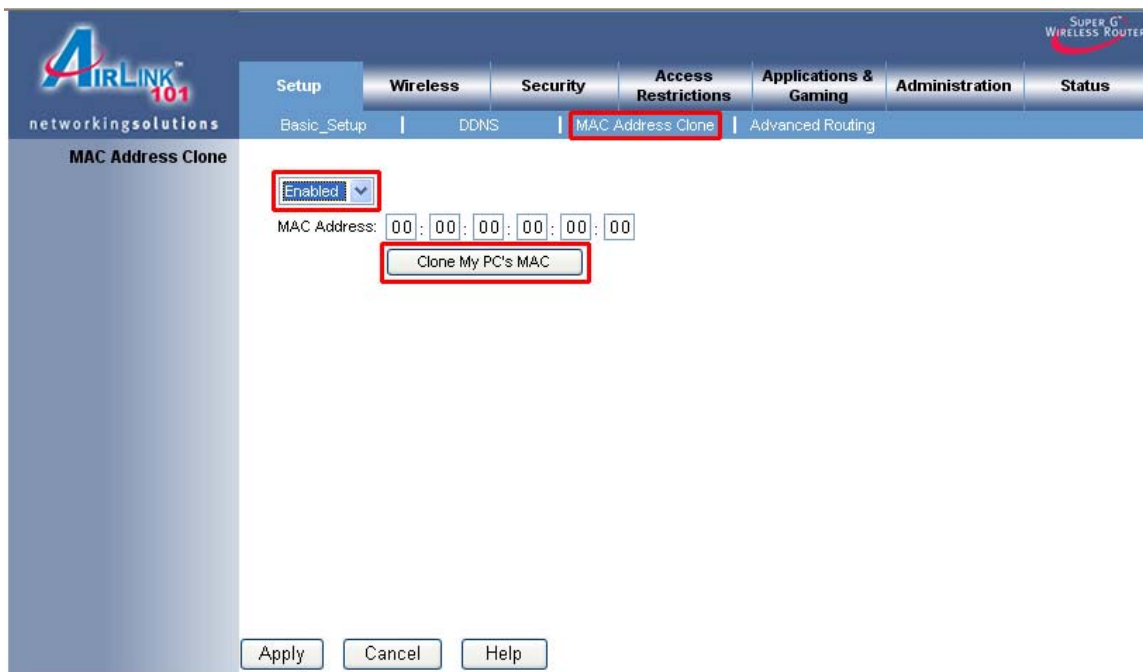
Cable Modem

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



The screenshot shows the AIRLINK 101 web interface. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Applications & Gaming, Administration, and Status. The 'Setup' tab is active, and the 'Basic_Setup' sub-tab is selected. The 'Internet Setup' section is visible, showing 'Internet Connection Type' set to 'Automatic Configuration - DHCP'. Below this, there are fields for 'Host Name', 'Domain Name', and 'MTU'. The 'Host Name' field is highlighted with a red box. The 'MTU' field is set to 'Auto' with a size of '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** and **OK** to save the setting.




The screenshot shows the AIRLINK 101 web interface with the 'MAC Address Clone' tab selected. The 'Enabled' dropdown menu is highlighted with a red box. Below it, the 'MAC Address' field is displayed as '00 : 00 : 00 : 00 : 00 : 00'. The 'Clone My PC's MAC' button is also highlighted with a red box. At the bottom of the page, there are buttons for 'Apply', 'Cancel', and 'Help'.

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

DSL

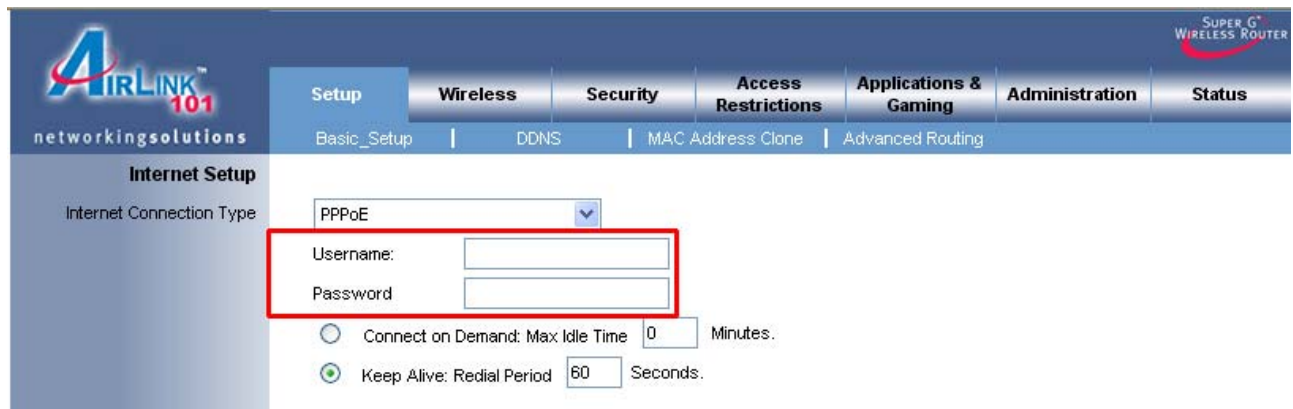
For DSL users, follow the steps below to configure the router.

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



The screenshot shows the 'Internet Setup' page of the Airlink 101 router. The 'Internet Connection Type' dropdown menu is open, showing options: Automatic Configuration - DHCP, Static IP, PPPoE (selected), PPTP, and Heart Beat Sign. The MTU is set to 'Auto' and the size is '1500'.

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



The screenshot shows the 'Internet Setup' page of the Airlink 101 router. The 'Internet Connection Type' is set to 'PPPoE'. The 'Username' and 'Password' fields are highlighted with a red box. The 'Connect on Demand' option is selected, and the 'Keep Alive' option is also selected.

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 guide.

Section 4

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, Applications & Gaming, Administration, and Status. Below the navigation bar, there are sub-tabs for Basic Wireless Settings, Wireless Security, Wireless MAC Filter, and Advanced Wireless Settings. The main content area is titled "Wireless Security" and contains "Wireless-G Settings". The settings are as follows:

Mode:	Mixed
Network Name (SSID):	default
Channel:	6 - 2.437GHz
SSID Broadcast:	Enabled

At the bottom of the settings area, there are three buttons: Apply, Cancel, and Help.

For information on changing the router's log in password and enabling wireless encryption, please refer to the User's Manual in the provided CD.

Section 5

Troubleshooting

If you have trouble connecting to the Internet try the steps belows.

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, Applications & Gaming, Administration, and Status (which is highlighted with a red box). 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: 1.10, May 19, 2005; Current Time: THU MAY 26 03:50:18 2005; Internet MAC Address: 00:90:4b:e2:00:90; Host Name: ; Domain Name: . The Internet Connection section shows the following configuration: Connection Type: Automatic Configuration - DHCP; IP Address: 192.168.1.1; Subnet Mask: 255.255.255.0; Default Gateway: 192.168.1.1; DNS1: 192.168.1.1; DNS2: 0.0.0.0; DNS3: 0.0.0.0. Below the DNS fields are buttons for IP Release and IP Renew. A Refresh button is located at the bottom right of the Internet Connection section, and a Help button is at the bottom left.

If you see all 0's, click on the **IP 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.

Technical Support

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Web Site: 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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