



300N Draft 802.11n Wireless Router

Model # AR680W

Quick Installation Guide

Ver. 1A

Section 1

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

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

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

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

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

Step 5 Power on your computer.

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

AR680W Icon Illustrations:

Power	Status	WAN	Wireless	LAN	WPS
				1 ~ 4	

Power

On: Power on

Status

Blinking: Function properly.

WAN

On: Link established **Blinking:** Data transmission

Wireless

On: Wireless is ready **Blinking:** Data transmission

LAN

On: Link established **Blinking:** Data transmission
WPS (WiFi Protected Setup)

Blinking Green: WPS setting in progression

Static Green: WPS successfully set up

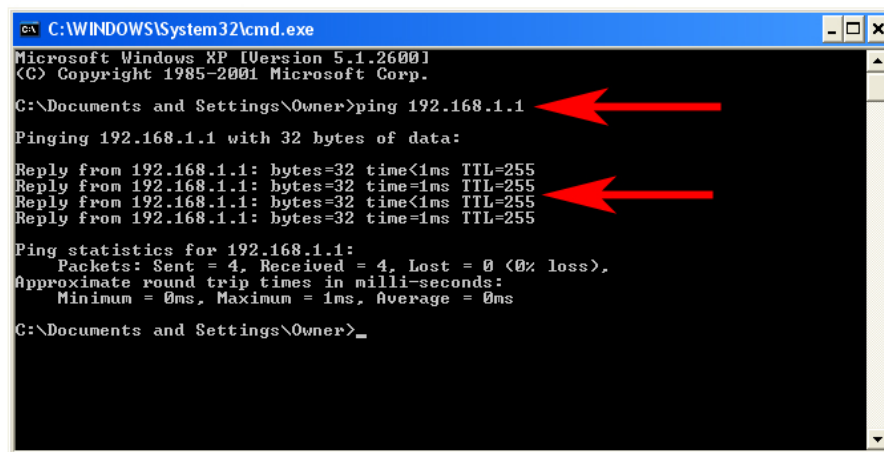
Blinking Red: Error found

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:

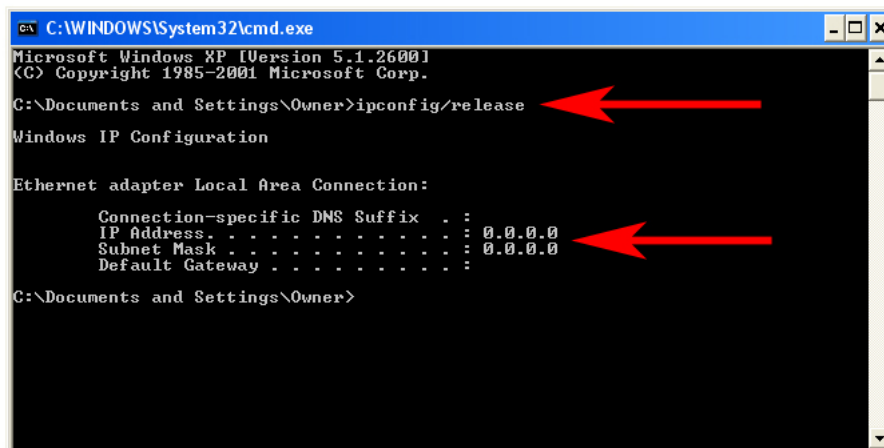
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

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**. (Windows 98se/ME skip to **Step 6**)



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

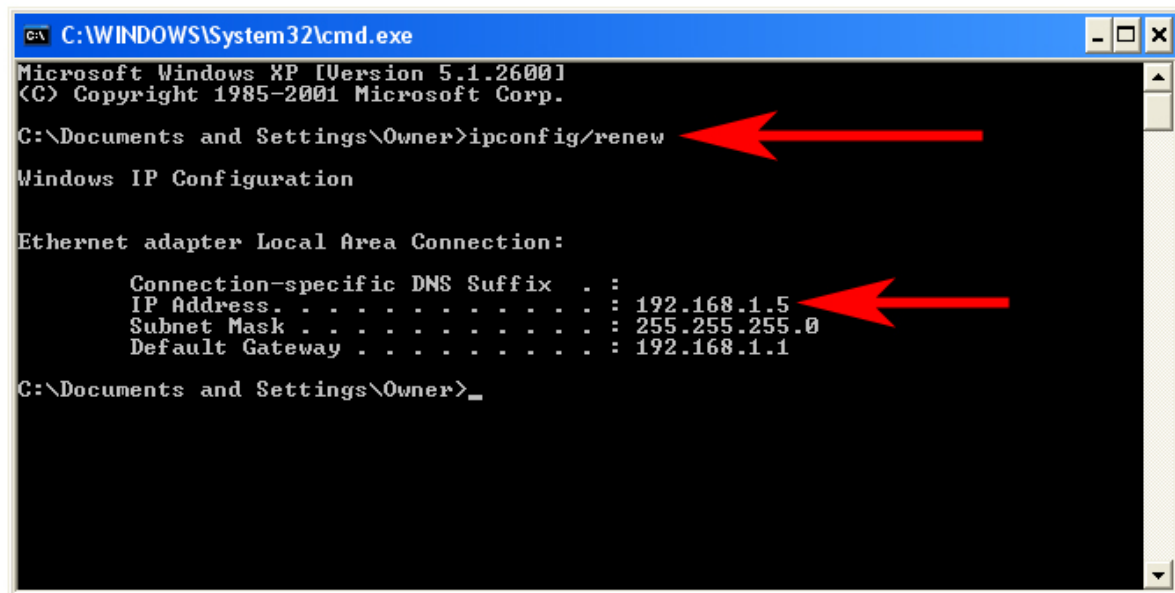
C:\Documents and Settings\Owner>ipconfig/release
Windows IP Configuration

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 on the back of the router for 10 seconds while it is ON and try **ipconfig/renew** again.



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

C:\Documents and Settings\Owner>ipconfig/renew

Windows IP Configuration

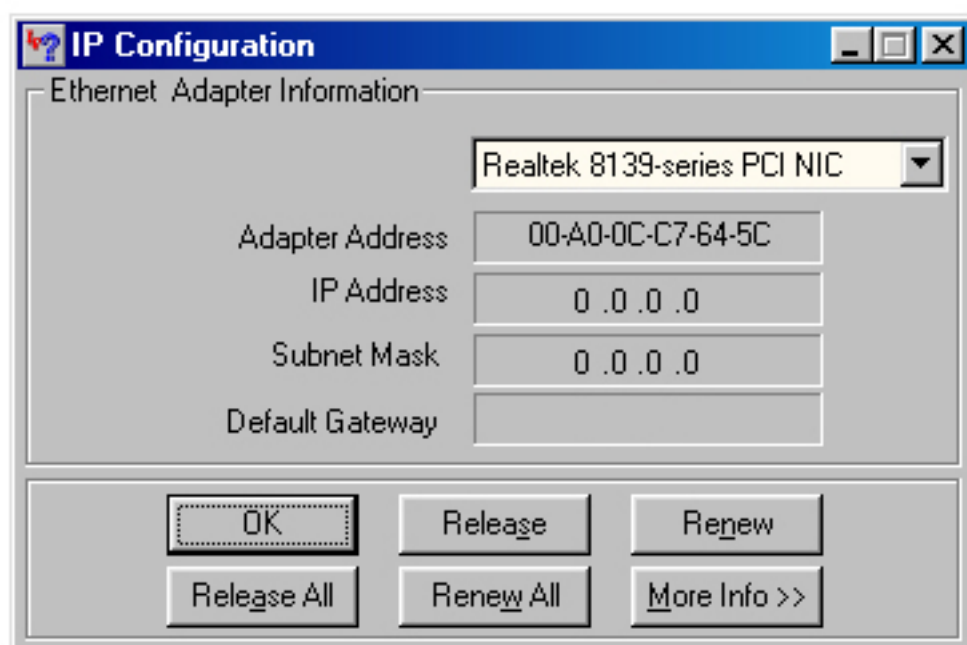
Ethernet adapter Local Area Connection:

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

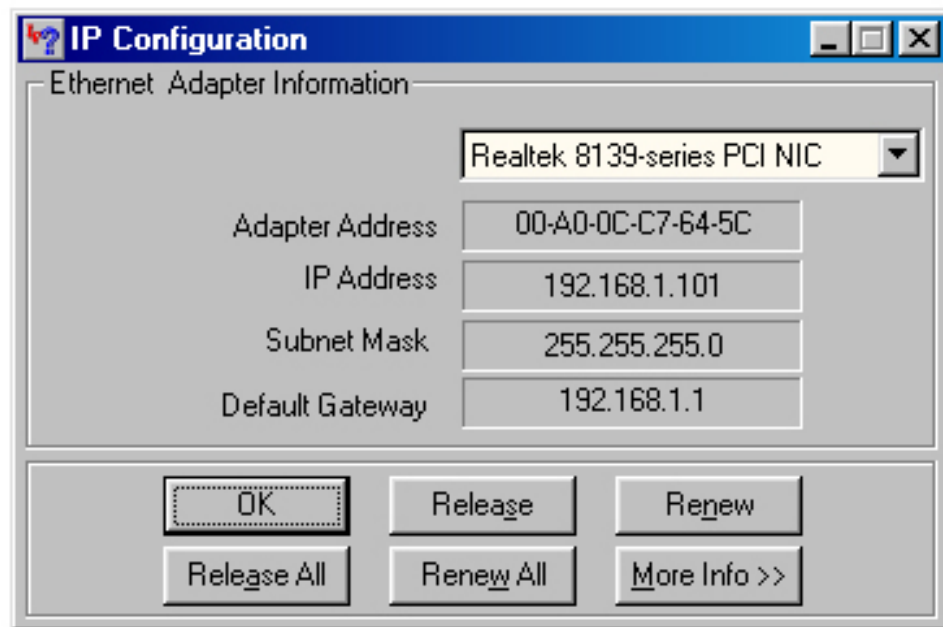
C:\Documents and Settings\Owner>_
```

Step 6 For Windows 95/98/ME go to **Start, Run**, type **winipcfg** and click **OK**. (Not necessary for Windows 2000/XP Users)

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 on the back of the router for 10 seconds while it is ON and try **Renew** again.



Section 3

Configuring the Router

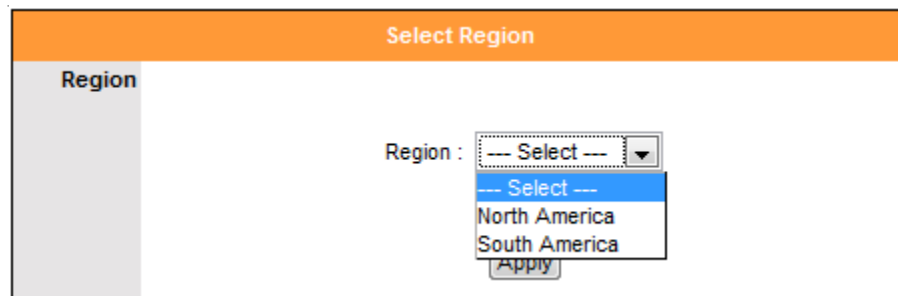
Step 1 Open a web browser (Internet Explorer) and type **192.168.1.1** in the URL Address field and press **Enter**.

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

A screenshot of a web-based login interface for a 'Draft 802.11N Wireless Router'. The page has an orange header with the title 'Draft 802.11N Wireless Router'. Below the header, on the left, is a grey vertical bar with the word 'Login' in white. To the right of this bar are two text input fields. The first is labeled 'User Name:' and contains the text 'admin'. The second is labeled 'Password:' and contains a series of asterisks '*****'. Below the password field is a small grey button with the text 'Login' in white.

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

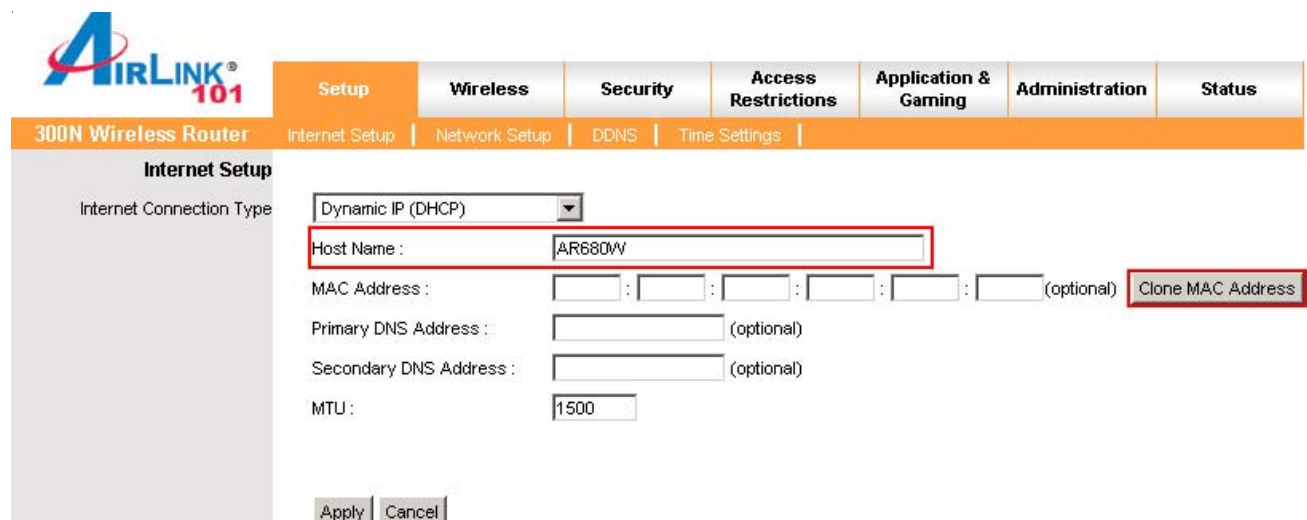
Warning: Incorrectly selecting the current region of operation may result in illegal operation and may cause harmful interference to other systems. You can refer to the user manual on the provided CD for more details.



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 on the **Clone MAC Address** button. Click **Apply** and **OK** to save the settings.

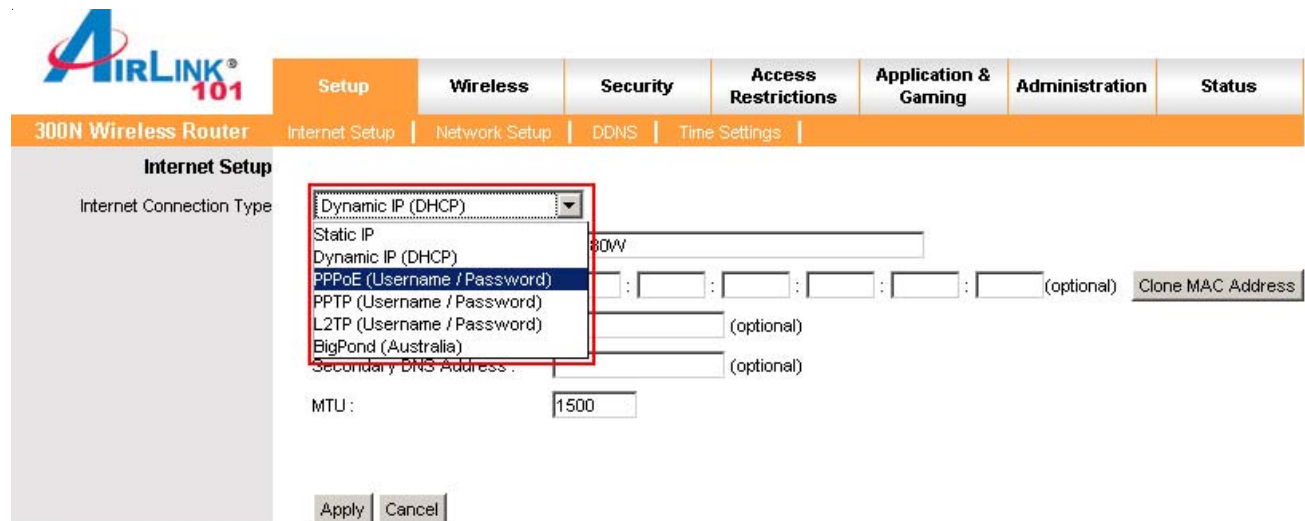


Go to the **Status** tab, **Internet connection** section to verify that you are getting valid IP address information. If you have trouble connecting to the Internet, please go through the **Troubleshooting** section at the end of this installation guide.

DSL

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

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



AIRLINK 101
300N Wireless Router

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

Internet Setup | Network Setup | DDNS | Time Settings

Internet Setup

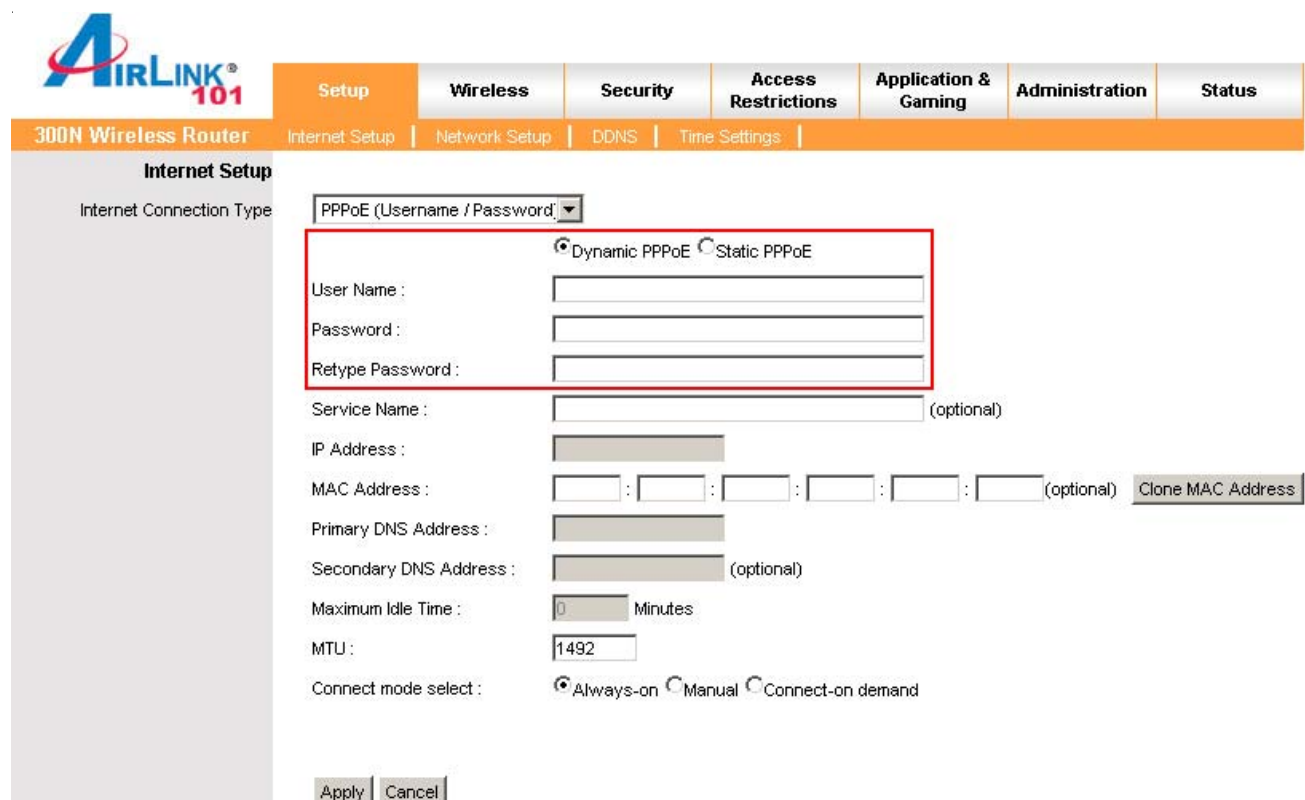
Internet Connection Type

Dynamic IP (DHCP) [v]
Static IP
Dynamic IP (DHCP)
PPPoE (Username / Password)
PPTP (Username / Password)
L2TP (Username / Password)
BigPond (Australia)
Secondary DNS Address : (optional)

MTU : 1500

Apply Cancel

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



AIRLINK 101
300N Wireless Router

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

Internet Setup | Network Setup | DDNS | Time Settings

Internet Setup

Internet Connection Type

PPPoE (Username / Password) [v]

☒ Dynamic PPPoE ☐ Static PPPoE

User Name :
Password :
Retype Password :

Service Name : (optional)

IP Address :
MAC Address : (optional) Clone MAC Address

Primary DNS Address :
Secondary DNS Address : (optional)

Maximum Idle Time : 0 Minutes

MTU : 1492

Connect mode select : ☒ Always-on ☐ Manual ☐ Connect-on demand

Apply Cancel

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.

Go to the **Status** tab, **Internet connection** section to verify that you are getting valid IP address information. If you have trouble connecting to the Internet, please go through the **Troubleshooting** section at the end of this installation guide.

Section 4

Connecting 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 settings.

The screenshot shows the web interface of an AIRLINK 101 300N Wireless Router. The top navigation bar includes tabs for Setup, Wireless (highlighted), Security, Access Restrictions, Application & Gaming, Administration, and Status. Below this, a sub-navigation bar shows Basic Wireless Settings, Wireless Security, Wireless MAC Filter, and Advanced Wireless Settings. The main content area is titled 'Wireless Network' and contains 'Wireless-G Settings'. The settings are as follows:

Setting	Value
Mode:	Mixed (g/b)
Network Name (SSID):	default
Channel:	6-2.437GHz
Band width:	20 MHz
Short Guard Interval:	Enable
SSID Broadcast:	Enable

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

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.

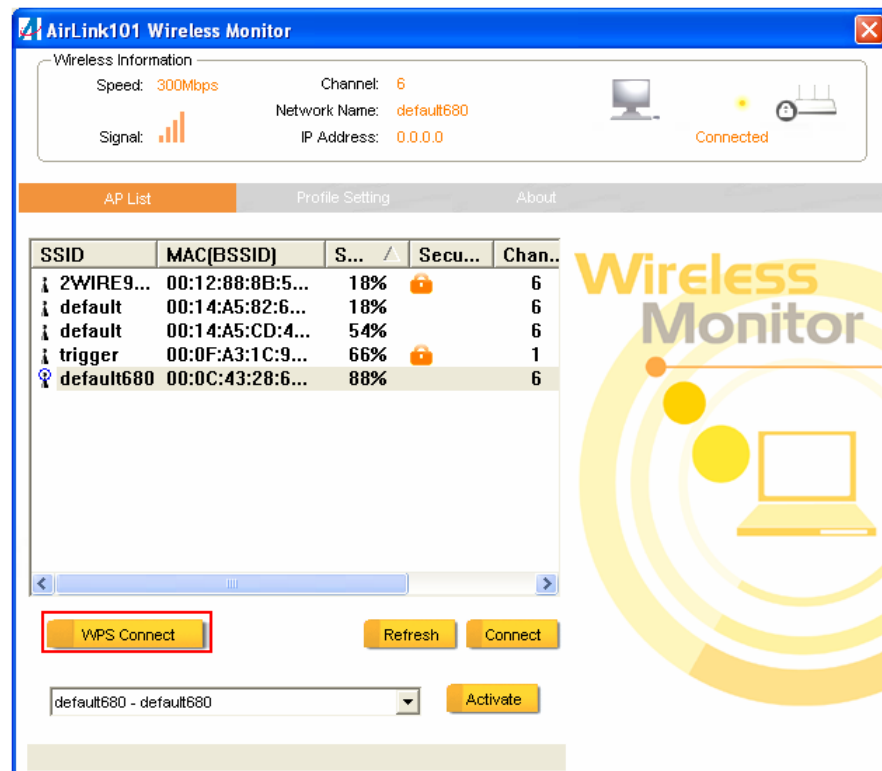
Section 5 (Optional)

Wi-Fi Protected Setup

Wi-Fi Protected Setup™ (**WPS**) is a new and easy way to configure the encryption for your wireless network clients. In order to use it with your router, firstly, you must configure the wireless encryption on the router. You can find instructions for configuring it in the User Manual located on the CD that came with your router. Secondly, you will need to have wireless adapters that support this feature. If your wireless adapters do not support WPS, 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 utility, Wireless Monitor that comes with the Airlink101 300N Wireless Adapters, AWLC6080, AWLH6080, and AWLL6080 as the example.

Step 1 Go to the computer with the Airlink101 300N wireless adapter and open the **Wireless Monitor**. Click on the **WPS Connect** button.



Note: If you do not see the WPS Connect button, you can go to www.airlink101.com to download the latest utility and driver.

Step 2 Choose your configuration method, either **Push Button** or **Pin Code**, and click **Next**.



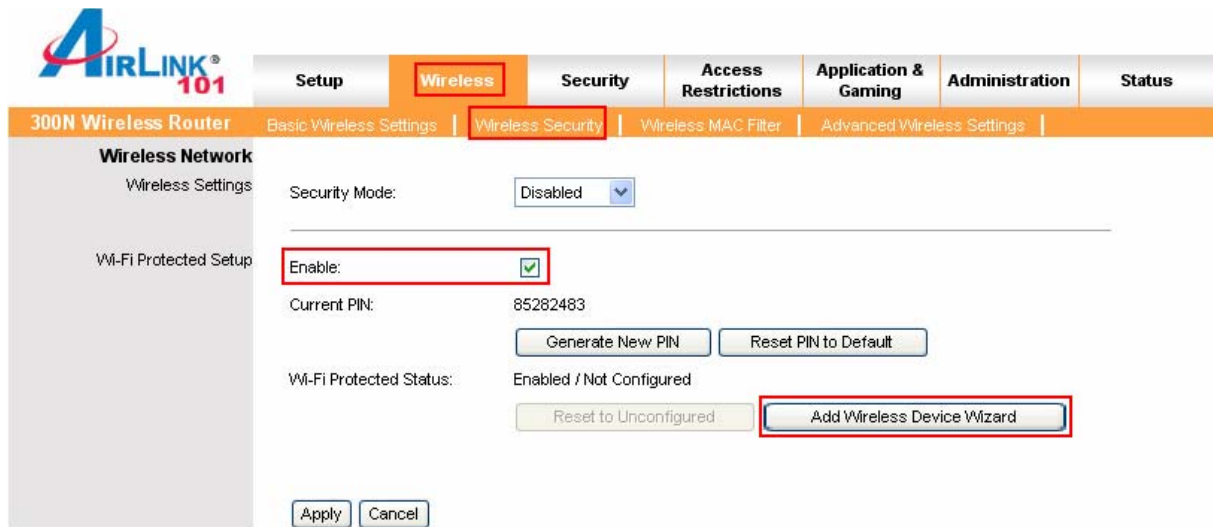
Step 3a Write down the **PIN** if you choose Pin Code method and click **Next**.



Step 3b If you choose Push Button method, click on the **Wi-Fi Protected Setup** button.



Step 4 Go to your routers configuration screen and click on **Wireless**. Then click **Wireless security**. Make sure that the Wi-Fi Protected Setup **Enable** box is checked. Then click the **Add Wireless Device Wizard** button.



AIRLINK 101

300N Wireless Router

Wireless Network

Wireless Settings

Wi-Fi Protected Setup

Security Mode: Disabled

Enable: ☒

Current PIN: 85282483

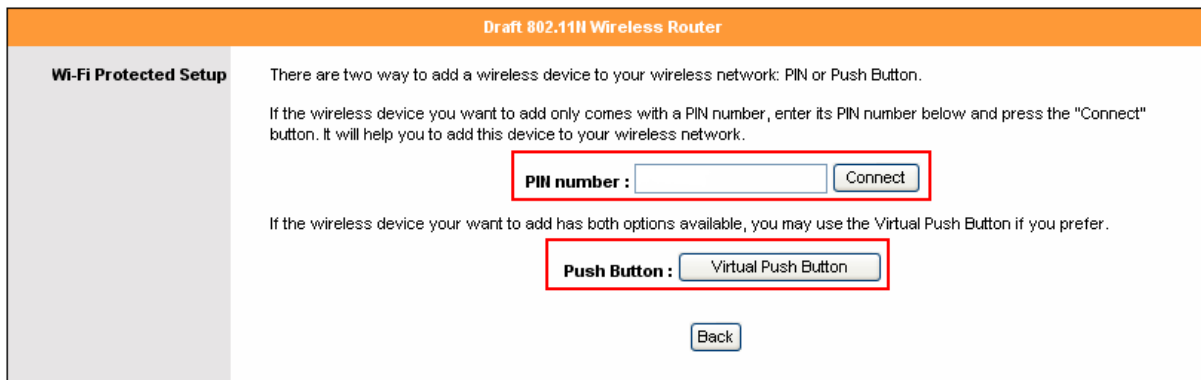
Generate New PIN Reset PIN to Default

Wi-Fi Protected Status: Enabled / Not Configured

Reset to Unconfigured Add Wireless Device Wizard

Apply Cancel

If you are using Pin Code method, enter the Pin Code in the **Pin Number** box and click **connect**. If you are using Push Button method, click on **Virtual Push Button** or the physical push button on the router.



Draft 802.11n Wireless Router

Wi-Fi Protected Setup

There are two way to add a wireless device to your wireless network: PIN or Push Button.

If the wireless device you want to add only comes with a PIN number, enter its PIN number below and press the "Connect" button. It will help you to add this device to your wireless network.

PIN number : Connect

If the wireless device your want to add has both options available, you may use the Virtual Push Button if you prefer.

Push Button : Virtual Push Button

Back

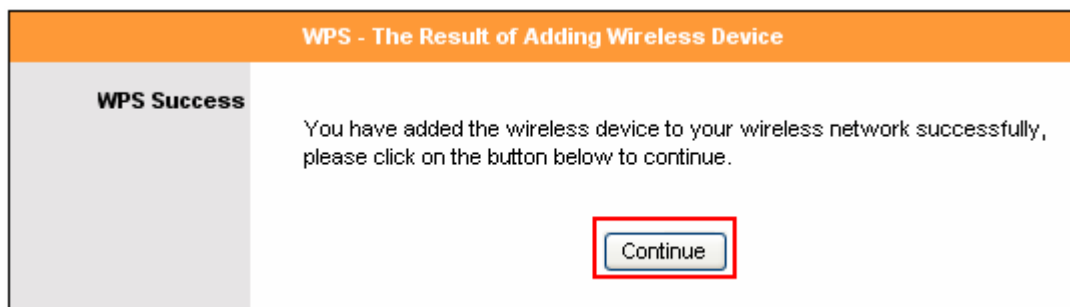


After a few moments both the router configuration screen and the adapter configuration screen should show a message telling you that you are connected.

Step 5 Click **Finish** on the adapter screen.



Step 6 Click **Continue** on the router configuration screen.



Section 6

Troubleshooting

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

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

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

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

Step 4 Turn on the computer.

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

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

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

The screenshot displays the web interface of an AIRLINK 101 300N Wireless Router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The Status tab is selected, showing Router Information and Internet Connection details. The Internet Connection section is highlighted with a red box, indicating the fields that need to be verified for a valid IP address and gateway.

Field	Value
Firmware Version:	1.00
Current Time:	19:10:20 04/15/2007
Internet MAC Address:	00:de:fa:15:00:02
Host Name:	AR680W
Connection Type:	Dynamic IP
Connection Status:	connected
IP Address:	10.0.0.100
Subnet Mask:	255.255.255.0
Default Gateway:	10.0.0.1
DNS1:	208.201.224.11
DNS2:	10.0.0.1

Buttons: Connect, Disconnect, Refresh

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

Section 7

Technical Support

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web Site: www.airlink101.com

*Theoretical maximum wireless signal rate derived from IEEE 802.11g standard and IEEE 802.11n draft specification version 1.0. 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. Specifications are subject to change without notice. All products and trademarks are the property of their respective owners. Copyright ©2007 AirLink101