

Wireless 300N Gigabit Router Model # AR690W Quick Installation Guide

Ver. 1.0

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 the 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 ports that the computer is connected to are lit. If not, try the above steps again.

AR690W LED Illustrations:

Power	Status	WAN	Wireless	LAN	WPS
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Power

On: Power on

Status

Blinking: Functioning properly.

WAN

On: Link established / Blinking: Data transmission Wireless

On: Wireless is ready / Blinking: Data transmission

LAN

On (Green): 1000Mbps device is connected Blinking (Green): Data transmit under 1000Mbps mode On (Orange): 100Mbps device is connected Blinking (Orange): Data transmit under 100Mbps mode **WPS (WiFi Protected Setup)** Blinking Blue: WPS set up in progress Static Blue: WPS set up successfully Blinking Red: Error found

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.



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	
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.		4
C:\Documents and Settings\Owner>ipconfig/renew		
Windows IP Configuration		
Ethernet adapter Local Area Connection:		
Connection-specific DNS Suffix .: IP Address		
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.

Ethernet Adapter Information		<u>- </u>
	Realtek 8139-series PCI NI	
Adapter Address	00-A0-0C-C7-64-5C	
IP Address	0. 0. 0. 0	
Subnet Mask	0.0.0	
Default Gateway		
OK Re Rele <u>a</u> se All Re	elea <u>s</u> e Re <u>n</u> ew ne <u>w</u> All <u>M</u> ore Info >>	

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.

🕎 IP Configuration	
Ethernet Adapter Information	
	Realtek 8139-series PCI NIC 💽
Adapter Address	00-A0-0C-C7-64-5C
IP Address	192.168.1.101
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
OK Re Release All Re	elease Renew new All More Info >>

Section 3

Configuring the Router

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

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

Draft 802.11N Wireless Router								
Login	User Name: Password:	admin ***** Login						

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.

	Setun	Wireless	Security	Access	Application &	Administration	Statue
101		WII CIC33	Security	Restrictions	Gaming	Administration	Status
Wireless N Router	Internet Setup	Network Setup	DDNS Tin	ne Settings			
Internet Setup							
Internet Connection Type	Dynamic IP (I	DHCP)	~				
	Host Name :		AR670W				
	MAC Address	;		:		(optional)	one MAC Addres
	Primary DNS /	Address :		(optional)			
	Secondary DN	IS Address :		(optional)			
	MTU :		1500				
	(Apply) Coo						

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 d	rop-	down	menu.
--------	--------	-------	------	-------	------	------	-------

et Setup Networ	k Setup E		Time Se	ttings					
)ynamic IP (DHCP) atic IP /namic IP (DHCP)	~	0///							
)ynamic IP (DHCP) atic IP /namic IP (DHCP)	~	0///							
PoE (Username / Pas 'TP (Username / Pass 2TP (Username / Pass gPond (Australia) scondary DNS Addres	sword) word) word)]:[:	optional)]	(optional)	Clone	MAC Addre
ru :	1500								
	Poer Username / Pass TP (Username / Pass TP (Username / Pass gPond (Australia) condary DNS Addres U :	POE (Username / Password) TP (Username / Password) TP (Username / Password) gPond (Australia) condary DNS Address . TU : 1500 pply] [Cancel]	POE (Username / Password) TP (Username / Password) TP (Username / Password) gPond (Australia) condary DNS Address . TU : 1500 pply] [Cancel]	POE (Username / Password) TP (Username / Password) IP (Username / Password) gPond (Australia) condary DNS Address . (U: 1500 pply] Cancel	POE (Username / Password) TP (Username / Password) TP (Username / Password) gPond (Australia) condary DNS Address. U: 1500 pply [Cancel]	POE (Username / Password) TP (Username / Password) TP (Username / Password) gPond (Australia) condary DNS Address. U: 1500 (optional) (optional)	POE (Username / Password) TP (Username / Password) GPond (Australia) condary DNS Address. U: 1500 (optional) (optional)	Poer (Username / Password) : : : : : : (optional) TP (Username / Password) : : : : : : : (optional) gPond (Australia) (optional) condary DNS Address . (optional) U : 1500	Poer (Username / Password) : : : : (optional) Clone TP (Username / Password) TP (Username / Password) GPond (Australia) Condary DNS Address . (optional) U: 1500

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

101	Setup	Wireless	Security	Access Restrictions	Application & Gaming	Administration	Status
ireless N Router	Internet Setup	Network Setup	DDNS T	ime Settings		A.	d.
Internet Setup							
Internet Connection Type	PPPoE (Userr	name / Password)	*				
		(Dynamic PPPoE	Ostatic PPPoE			
	User Name :						
	Password:						
	Retype Passw	/ord :					
	Service Name	:			(optional)		
	IP Address :						
	MAC Address	:	1.		:	(optional)	Ione MAC Ad
	Primary DNS A	ddress :	1.2.2.1		and here of the		
	Secondary DN	IS Address		(optional)			
	Maximum Idle 1	Time :	Minutes	s (optional)			
	MTLL	, inic	1492	•			
	MIU.		a. 0				
	Connect mode	select:	🤊 Always-on 🔿	vianual OConnect-o	in demand		

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.

	Setup Wirele	ss Security	Access Restrictions	Application & Gaming	Administration	Status
Wireless N Router	Basic Wireless Settings	Wireless Security 📔 W	vireless MAC Filter	Advanced Wire	less Settings	
Wireless Network						
Wireless Settings	Mode:	Mixed (n/g/b)	*			
	Network Name (SSID):	default				
	Channel:	6-2.437GHz 💌				
	Band width:	40 MHz 💙				
	Short Guard Interval:	Enable 🔽				
	SSID Broadcast:	Enable 💌				
	Apply Cancel					

For information on changing the router's log in password and enabling wireless encryption, please refer to the User's Manual on 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 to connect to the router. Your wireless adapters must support WPS in order to use this convenient function. 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 Wireless 300N adapters, and AR690W Wireless 300N Gigabit Router as an example.

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

 Wreless information 	-
Speed: 150Mbps Channel: 6	
Network Name: default670	
Signal: III IP Address: 192.168.2.100 Connected	
AP List Profile Setting About	
SSID MAC(BSSID) S A Secu Chan	_
🛿 default670_00:1D:6A:12:0 100% 🙆 🛛 🌀 🚺 🔍 🖬 🗧 6	
Monito	r.
IVIOIIILO	
	_
WPS Connect Connect	
default670 - default670	

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



Step 3b Push the WPS button on the router.



Step 4a If you choose Pin Code method, write down the PIN and click Next.



Step 4b Log in to your router's configuration page from the web browser and click on **Wireless**. Then click **Wireless security**. Make sure that the Wi-Fi Protected Setup **Enable** box is checked. Click the **Add Wireless Device Wizard** button.

	occup mil clos	Security	Restrictions	Gaming	Administration	Statu
ireless N Router 🛛 🖯	Basic Wireless Settings 📘 V	Mireless Security 📘 W	reless MAC Filter	Advanced Wire	less Settings	
Wireless Network Wireless Settings	Security Mode:	Disabled 💌				
WI-Fi Protected Setup	Enable: Current PIN:	85282483				
		Generate New	PIN Reset	PIN to Default		
	Wi-Fi Protected Status:	Enabled / Not Config	ured			
		Reset to Uncor	nfigured	Add Wireless De	vice Wizard	

Step 4c Enter the Pin Code in the Pin Number box and click Connect.

Draft 802.11II Wireless Router							
tton. Iber below and press the "Connect" Ict							

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 4d Click **Continue** on the router configuration screen.

	WPS - The Result of Adding Wireless Device
WPS Success	You have added the wireless device to your wireless network successfully, please click on the button below to continue.
	Continue

Step 5 Click Finish on the adapter screen.



Note: If you cannot connect successfully with WPS, you need to log in to your router's configuration page, click on **Wireless**. Then click **Wireless security**. Make sure that the Wi-Fi Protected Setup **Enable** box is checked.

-	security	Restrictions	Gaming	Administration	Statu
Basic Wireless Settings 📘 V	Mireless Security 📘 Wire	eless MAC Filter	Advanced Wire	less Settings	
Security Mode:	Disabled 🗸				
					-
a second and a second se					
Enable:					
Current PIN:	85282483				
	Generate New Pl	N Reset	PIN to Default		
Wi-Fi Protected Status:	Enabled / Not Configu	red			
	Reset to Unconf	igured	Add Wireless De	vice Wizard	
	1	1000			
	Basic Wireless Settings	Basic Wireless Settings Wireless Security Wireless Security Security Mode: Disabled Image: Comparison of the security Enable: Image: Comparison of the security Image: Comparison of the security Current PIN: 85282483 Image: Comparison of the security WM-Fi Protected Status: Enabled / Not Configure Reset to Unconfigure	Basic Wireless Settings Wireless Security Wireless MAC Filter Security Mode: Disabled Image: Comparison of the security Enable: Image: Comparison of the security Image: Comparison of the security Current PIN: 85282483 Generate New PIN Wireless MAC Filter Image: Comparison of the security Image: Comparison of the security Wireless MAC Filter Image: Comparison of the security Image: Comparison of the security Wireless MAC Filter Image: Comparison of the security Image: Comparison of the security Wireless Mac Filter Image: Comparison of the security Image: Comparison of the security Wireless Mac Filter Image: Comparison of the security Image: Comparison of the security Wireless Mac Filter Image: Comparison of the security Image: Comparison of the security Wireless Mac Filter Image: Comparison of the security Image: Comparison of the security Wireless Mac Filter Image: Comparison of the security Image: Comparison of the security Wireless Mac Filter Image: Comparison of the security Image: Comparison of the security Wireless Mac Filter Image: Comparison of the security Image: Comparison of the security Wire	Basic Wireless Settings Wireless Security Wireless MAC Filter Advanced Wireless Wireless MAC Filter Security Mode: Disabled Image: Comparison of the security of t	Basic Wireless Settings Wireless Security Wireless MAC Filter Advanced Wireless Settings Security Mode: Disabled Image: Comparison of the set of t

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).

IRLINK®	Setup	Wireless	Security	Access Restrictions	Application & Gaming	Administration	Stati
/ireless N Router	Router Lo	cal Network	Mireless Network				
Router Information	n						
	Firmware \	/ersion:	1.00				
	Current Tim	ie:	14:20:18 12/19/200	7			
	Internet MA	C Address:	00:1d:6a:12:0f:21				
	Host Name:		AR670W				
							-
Internet Connection	n						
	Connection	Туре:	Dynamic IP				
	Connection	Status:	connected				
	IP Address:		192.168.1.60				
	Subnet Mas	sk:	255.255.255.0				
	Default Gat	eway:	192.168.1.1				
	DNS1:	- 1000 100 D	4.2.2.1				
	DNS2:		N/A				
	Connect	Disconnect					
	Refresh						

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

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 2.0. 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 ©2008 AirLink101®

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.

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.

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.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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

Industry Canada Statement

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

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.