



MIMO XR[™] Wireless Broadband Router Model # AR525W User's Manual

Ver. 1B

Table of Contents

1. Introduction	3
2. Connecting the Router	4
3. Verifying Connection to the Router	5
4. Configuring the Router	8
Cable Modem	9
DSL	10
5. Connecting to the Router Wirelessly	11
6. Web Configuration Utility	12
6.1 Setup	12
6.1.1 Basic Setup	12
6.1.2 DDNS	14
6.1.3 MAC Address Clone	15
6.1.4 Advanced Routing	16
6.2. Wireless	17
6.2.1 Basic Wireless Settings	
6.2.2 Wireless Security	18
WEP	
WPA	19
WPA with RADIUS	20
6.2.3 Wireless MAC Filter	21
6.2.4 Advanced Wireless Settings	22
6.3 Security	23
6.3.1 Firewall	23
6.3.2 VPN Passthrough	24
6.4 Access Restrictions	25
6.4.1 Internet Access Policy	25
6.5 Applications & Gaming	28
6.5.1 Single Port Forwarding	
6.5.2 Port Range Forwarding	
6.5.3 Port Range Triggering	
6.5.4 DMZ	
6.5.5 QoS	32
6.6 Administration	33
6.6.1 Management	
6.6.2 Log	
6.6.3 Diagnostics	
6.6.4 Factory Defaults	
6.6.5 Firmware Upgrade	
6.7 Status	
6.7.1 Router	
6.7.2 Local Network	
6.7.3 Wireless Network	
7. Troubleshooting	
Technical Support	

1. Introduction

Congratulations on your purchase of this MIMO XR[™] Wireless Broadband Router. The MIMO XR[™] Wireless Broadband Router allows Internet sharing and creates a dynamic wireless network for you to access your network with greater mobility. When used with other Airlink101[™] MIMO XR[™] wireless products, the wireless signal range extends farther than standard 802.11g products. Best of all the MIMO XR[™] Wireless Broadband Router is backwards-compatible with existing 802.11g and 802.11b network devices.

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

Package Contents

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

- One MIMO XR[™] Wireless Broadband Router
- One RJ-45 cable
- Three Detachable Antennas
- One Power Adapter
- One Quick Installation Guide
- One Manual CD

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.

2. Connecting the Router

Note: Prior to connecting the router, be sure to power off your computer, DSL/Cable modem, and the router. To achieve maximum wireless coverage, tilt the router's antennas outward at 45° angle.

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** ports of the router.

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

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

Step 5 Power on your computer.

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



3. Verifying Connection to the Router

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

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



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

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



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

C:\WINDOWS\System32\cmd.exe	- 🗆 ×
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.	▲
C:\Documents and Settings\Owner>ipconfig/renew	
Windows IP Configuration	
Ethernet adapter Local Area Connection:	
Connection-specific DNS Suffix .: IP Address: 192.168.1.5 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.1.1	
C:\Documents and Settings\Owner>_	
	•

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

1 Configuration	
Ethernet Adapter Information	
	Realtek 8139-series PCI NIC 🗾
Adapter Address	00-A0-0C-C7-64-5C
IP Address	0.0.0
Subnet Mask	0.0.0
Default Gateway	
<u></u>	elease Renew new All More Info >>

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.

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	elea <u>s</u> e Re <u>n</u> ew
Rele <u>a</u> se All Re	ne <u>w</u> All <u>M</u> ore Info >>

4. Configuring the Router

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

File	Edit	View	Favorites
()	Back	• 🖸	- 💌
Addres	s	192.16	8.1.1

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

Connect to 192	2.168.1.1 🛛 🛛 🔀
	G G
Airlink101	
User name:	🖸 admin 💌
Password:	••••
	Remember my password
	OK Cancel

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.

							MIMO XR WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Basic Setup 丨	DDNS MAC	Address Clone	Advanced Routing			
Internet Setup							
Internet Connection Type	Automatic	Configuration - DH	ICP 🔽				
Optional Settings (required by some Internet Service Providers)	Host Name: Domain Name	e: 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.

							MIMO XR Wireless Router
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Basic Setup 丨	DDNS MAC	Address Clone	Advanced Routing			
MAC Address Clone	🖲 Enable	d O Disabled					
	MAC Clone .		. 00 . 00 . 01 Clone My PC's Mac	0.00.00			
	Apply Can	cel					

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

DSL

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

Step 1 Select PPPoE from the drop-down menu.



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

							MIMO XR" WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Basic Setup 丨	DDNS MAC	Address Clone 丨	Advanced Routing			
Internet Setup							
Internet Connection Type	PPPoE		*	_			
	Username:						
	Password:						
	O Connec	t on Demand: Max	dle Time 5	Minutes.			
	💽 Keep A	live: Redial Period	60 Second	S.			

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.

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

5. Connecting to the Router Wirelessly

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

SSID (Network Name): **default** Operating Mode: **Infrastructure** Authentication: **Auto** Channel #: **6** Encryption: **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** to save the setting.

						SUPER G
S- IRLING	Setup	ess Security	Access Restrictions	Applications & Gaming	Administration	Status
networking solutions	Basic Wireless Settings	VVireless Security	Wireless MAC Filter	Advanced W	reless Settings	
Wireless Security						
Wireless-G Settings	Mode: Network Name (SSID): Channel: SSID Broadcast: Apply Cancel	Mixed default 6 - 2.437GHz Enabled Help				

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 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 DHCP settings and selecting your Time Zone.

							MIMO XR WIRELESS ROL
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networkingsolutions	Basic Setup 📘 I	DDNS MAC	Address Clone	Advanced Routing			
Internet Setup							
Internet Connection Type	Automatic C	onfiguration - Dł	HCP 🔽				
Optional Settings (required by	Host Name:			7			
some Internet Service Providers)	Domain Name:	Airlink101		i i			
	MTU:	Auto 🔽	Size: 1500				
Network Setup							
Router IP	Local IP Addre	ss: 192 .	168.1.1				
	Subnet Mask:	255.255	255.0 👻				
DHCP Server Setting	DHCP Server:	📀 Enabl	led 🔵 Disabled	Static DHCP			
	Start IP Addre	ss: 192.1	68.1.100				
	Maximum Num of Users:	ber 50]				
	IP Address Ra	inge: 192.1	68 . 1 . 100~149				
	Client Lease T		minutes (0 mear	ns one day)			
	Static DNS 1:		0.0.0				
	Static DNS 2:	0.	0.0.0				
	Static DNS 3:	0.	0.0.0				
	WINS:	0.	0.0.0				
Time Cettings							
Time Settings Time Zone:	(ONT 00.00	N D 16 4	ICA & Constale)				
Time zone.) Pacific Time (l					
	L Automat	iicaily adjust clo	ck for daylight savi	ng changes.			
	Apply Cance	1					

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

Assigning Static IP Address

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

networkingsolutions			
Static DHCP Client List			
	DHCP Client Table		
	Assign this IP	To this MAC	Enabled
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	192.168.1.	00:00:00:00:00:00	
	Save Settings	Cancel Changes Clos	e

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.

6.1.2 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.

								MIMO XR WIRELESS ROUTER
9	RLINK	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
network	ingsolutions	Basic Setup 丨	DDNS MAG	Address Clone 📘	Advanced Routing			
	DDNS							
	DDNS Service	Disable	*					
		Apply Can	cel					

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 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.

							MIMO XR" WIRELESS ROUTER		
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status		
networking solutions	Basic Setup 丨	DDNS M	AC Address Clone	Advanced Routing					
MAC Address Clone									
	Inabled ○ Disabled								
	MAC Clone .	Address: 0	0.00.00.0						
			Clone My PC's Mac						
	Apply Can	cel							

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 Advanced Routing

							MIMO XR Wireless Router
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Basic Setup 丨	DDNS MA	C Address Clone	Advanced Routing			
Advanced Routing							
NAT	💿 Enabl	led 🔵 Dis	abled				
Dynamic Routing (RIP)	🔵 Enabl	led 💿 Dis	abled				
Static Routing	Route Entrie:	s:	1 💙 🛛 De	lete This Entry			
	Enter Route	Name:					
	Destination L	LAN IP:	0.0.0				
	Subnet Masł	k:	0.0.0				
	Gateway :						
	Interface :		LAN & Wireless				
			Show Routing Ta				
	Apply Can	cel					

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

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 Basic Wireless Settings

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

							MIMO XR" WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Basic Wireles	ss Settings 🛛 🛔	Wireless Security	VVireless	MAC Filter	Advanced Wireless	Settings
Wireless Network							
	Wireless:		💿 Enabled 🔘 Di	sabled			
	Network Mo	ode:	Mixed 💊	•			
	Network Na	ame(SSID):	default				
	Channel:		6 - 2.437GHz 🛛 🖌				
	SSID Broad	cast:	💿 Enabled 🔘 Dis	abled			
	Apply Can	cel					

Wireless: Select to Enable or Disable the wireless feature of the router.

Network Mode: Choose from Mixed (B & G), Wireless-B only, and Wireless-G only.

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.

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

6.2.2 Wireless Security

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

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

WEP

MIMO XR WIRELESS ROU Applications Administration Access Setup Security Status Restrictions Gaming networkingsolutions Wireless Security WEP Security Mode: ~ 40 / 64-bit (10 hex digits) 🛛 🗸 Encryption: Generate Passphrase: Key 1: Key 2: Key 3: Key 4: TX Key: 1 🗸 Apply Cancel

To enable WEP, select WEP from the Security Mode.

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.

WPA

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

							MIMO XR" WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Basic Wireless	Settings 📘	Wireless Security	Vvireless 1	MAC Filter	Advanced Wireless	: Settings
Wireless Security							
	Security Mode	e: WPA-PS	sk 🔽				
	Encryption:	AES 🔽					
	Passphrase:						
	Key Renewal:	3600	seconds				
	Apply Cance	9					

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

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

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

WPA with RADIUS

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

							MIMO XR" WIRELESS ROUTER
	Setup Wi	reless	Security	Access Restrictions	Applications Gaming	Administration	Status
networkingsolutions	Basic Wireless Setti	ngs 📔	Wireless Security	Vvireless I		Advanced Wireless	s Settings
Wireless Security							
	Security Mode:	WPA2	*				
	Encryption:	AES					
				_			
	RADIUS Server:						
	RADIUS Port:	1812					
	Shared Secrect:						
	Key Renewal:	3600	seconds				
	Apply Cancel						

Encryption Methods: Select either **TKIP** or **AES** as the encryption method. (WPA2 uses AES only).

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.

6.2.3 Wireless MAC Filter

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

							MIMO XR WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Basic Wirele	ess Settings 🛛	Wireless Security	VVireless I	MAC Filter	Advanced Wireless	Settings
Wireless MAC Filter	🔿 Enat	oled 💿 Disabled	d				
Access Restriction			w from accessing the to access the wirele				
MAC Address Filter List	Vvirele	ess Client Table					
	MAC 1:	00:00:00:00:00	:00 MAC 9:	00:00:00:00:	00:00		
	MAC 2:	00:00:00:00:00	:00 MAC 10:	00:00:00:00:	00:00		
	MAC 3:	00:00:00:00:00	:00 MAC 11:	00:00:00:00:	00:00		
	MAC 4:	00:00:00:00:00	:00 MAC 12:	00:00:00:00:	00:00		
	MAC 5:	00:00:00:00:00	:00 MAC 13:	00:00:00:00:	00:00		
	MAC 6:	00:00:00:00:00	:00 MAC 14:	00:00:00:00:	00:00		
	MAC 7:	00:00:00:00:00	:00 MAC 15:	00:00:00:00:	00:00		
	MAC 8:	00:00:00:00:00	:00 MAC 16:	00:00:00:00:	00:00		
	Apply Ca	ncel					

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 Advanced Wireless Settings

							MIMO XR" WIRELESS ROUTER
	Setup Wirele	ess	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Basic Wireless Settings	11	Wireless Security	Vvireless 1	MAC Filter	Advanced Wireless	Settings
Advanced Wireless							
	Frame Burst Mode:	🖲 E	nabled 🔘 Disab	led (Default: Enable	d)		
	AP Isolation:	О е	nabled 💿 Disab	led (Default: Disable	ed)		
	Authentication Type:	Auto	V (Defa	ault: Auto)			
	Basic Rate:	Defa		ault: Default)			
	Transmission Rate:	Auto	🔽 (Defa	ault: Auto)			
	Transmission Power:	Full	🔽 (Defa	ault: Full)			
	CTS Protection Mode:	Auto	V (Defa	ault: Auto)			
	Beacon Interval:	100	(Default: 10	0, Milliseconds, Ran	ge: 20~1000)		
	DTIM Interval:	1	(Default: 1,	Range: 1 - 255)			
	Fragmentation Threshold:	2346	(Default: 23	46, Range: 256 - 23	46)		
	RTS Threshold:	2346	(Default: 23	46, Range: 256 - 23	46)		
	Apply Cancel						

You can configure various advanced wireless settings on this screen.

6.3 Security

6.3.1 Firewall

							MIMO XR" WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Firewall	VPN Passthrough					
Firewall							
	SPI Firewal	l Protection: 🔘 E					
Internet Filter	Filter	Anonymous Inte					
	Filter	Multicast					
	Filter	Internet NAT Red	direction				
	🗹 Filter	IDNT (Port 113)					
Web Filter	Proxy	🔲 Java 📃 Act					
	Apply Can	cel					
	Course Course						

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.

6.3.2 VPN Passthrough

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

							MIMO XR WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networkingsolutions	Firewall	VPN Passthrough					
VPN Passthrough							
	IPSec Pass	sthrough: 💿 En	abled 🔘 Disable	d			
	PPTP Passthrough: 💿 Enabled 🔿 Disable			d			
	L2TP Pass	through: 💿 En	abled 🔘 Disable	d			
	Apply Can	cel					

6.4 Access Restrictions

6.4.1 Internet Access Policy

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

		MIMO XE
	Setup Wireless Security Access Restrictions Applications Gaming Administration	Status
etworking solutions	Internet Access Policy	
Internet Access Policy		
	Access Policy: 1() V Delete This Policy Summary	
	Enter Policy Name:	
	Status: O Enabled O Disabled	
Applied PCs	Edit List (This Policy applies only to PCs on the List.)	
	@ name	
Access restriction	Deny Internet access during selected days and hours. Allow	
Schedule	Days: VEveryday Sun Mon Tue Wed Thu Fri Sat	
	Times: ③ 24 Hours 〇 00 💙 00 💙 - 00 💙	
	URL 1: URL 2:	
Website Blocking by URL Address	URL 3: URL 4:	
Website Blocking	Keyword 1: Keyword 2:	
by Keyword	Keyword 3: Keyword 4:	
Blocked Applications	Note: only three applications can be blocked per policy.	
District i pprioditorio	Applications Blocked List	
	DNS [53-53]	
	HTTPS[443-443] FTP[24-21]	
	POP5[110-110] MAP [143-143]	
	SMTP [25~25]	
	NNTP [119~119] SNMP [161~161]	
	Application Name	
	Port Range	
	Protocol TCP V	
	Add Modify Delete	
	Apply Cancel	

Enter Policy Name: Enter a name for the policy.

Status: Choose to enable or disable the selected policy.

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

networkingsolutions				
List of PCs				
MAC Address	01	00:00:00:00:00:00	06	00:00:00:00:00:00
	02	00:00:00:00:00:00	07	00:00:00:00:00:00
	03	00:00:00:00:00:00	08	00:00:00:00:00:00
	04	00:00:00:00:00:00	09	00:00:00:00:00:00
	05	00:00:00:00:00	10	00:00:00:00:00:00
IP Address	01	192.168.1.0	04	192.168.1. 0
	02	192.168.1. 0	05	192.168.1. <mark>0</mark>
	03	192.168.1. ⁰	06	192.168.1. ⁰
IP Address Range	01 192	2. 168. 1. 0 ~ 0	03	192.168.1. 0 ~ 0
	02 192	2. 168. 1. 0 ~ 0	04	192.168.1.0~0
	Save S	Gettings Cancel Chang	jes	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 Restrictions: Select to Deny or Allow the specified clients to access the Internet by Day and Time.

Access restriction	Deny Internet access during selected days and hours. Allow
Schedule	Days: ✓ Everyday Sun Mon Tue Wed Thu Fri Sat Times: • 24 Hours • 00 • 00 • 00 • 00 • 00 • 00

Blocked Application Port

Select which application port to block, if any, when the specified PCs have Internet access.

For your convenience, 10 preset applications and their ports are listed. If you have a custom application, manually enter its name, port range, protocol and click **Add**.

Blocked Applications	Note: only three application	ns can be blo	ocked 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]	X		
	Application Name			
	Port Range	~		
	Protocol	TCP 🗸		
	Add Modify	Delete		

Website Blocking

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

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

Enter the URL or the Keyword you wish to block.

Click **Apply** to save the setting.

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

6.5 Applications & Gaming

6.5.1 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.

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

							MIMO XR" WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Single Port Forw	varding 📘 Port Ra	ange Forwardi	ing 📔 Port Range Triggerin	g 📔 DMZ	Qos	
Single Port Forwarding							
Application Name	External Port	Internal Port	Protocol	To IP address	Enable		
None 💌				192 . 168 . 1 . 0			
None 💌				192 . 168 . 1 . 0			
None 💌				192 . 168 . 1 . 0			
None 💌				192 . 168 . 1 . 0			
None 💌				192 . 168 . 1 . 0			
			ТСР 💌	192 . 168 . 1 . 0			
			TCP 💌	192 . 168 . 1 . 0			
			TCP 💌	192 . 168 . 1 . 0			
			TCP 💌	192 . 168 . 1 . 0			
			TCP 💌	192 . 168 . 1 . 0			
			TCP 💌	192 . 168 . 1 . 0			
			TCP 💌	192 . 168 . 1 . 0			
			TCP 🔽	192 . 168 . 1 . 0			
			TCP 🔽	192 . 168 . 1 . 0			
			TCP 🖌	192 . 168 . 1 . 0			
	Apply Canc						
	Apply Canc	er					

6.5.2 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.

MIMO XR WIRELESS ROUTER IRLINK 101 Applications Access Security Setup Wireless Administration Status Restrictions Gaming networkingsolutions Port Range Forwarding Application Name Start ~ End Port To IP address Enable Protocol тср 🔽 ~ 192.168.1. TCP 🔽 ~ 192.168.1. ~ TCP 🔽 192.168.1. ~ TCP 🔽 192.168.1. ~ TCP 🔽 192.168.1. TCP 🔽 ~ 192.168.1. ~ TCP 💙 192.168.1. ~ TCP 🔽 192.168.1. TCP 🔽 ~ 192.168.1. ~ TCP 🔽 192.168.1. TCP 🔽 192.168.1. ~ TCP 🔽 ~ 192.168.1. ~ TCP 🔽 192.168.1. TCP 🔽 ~ 192.168.1. ~ TCP 🔽 192.168.1. Cancel Apply

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

6.5.3 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.

		1		1			MIMO XR* WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Single Port For	warding Por	t Range Forwarding	Port Range Trigg	ering DMZ	Qos	
Port Triggering							
	Application Na	ame Trig	gered Range	Forwarded Rang	je Enabled		
			~	~			
			~	~			
			~	~			
			~	~			
			~	~			
			~	~			
			~	~			
			~	~			
			~	~			
			~	~			
	Apply Can	cel					

6.5.4 DMZ

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

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

							MIMO XR WIRELESS ROUTER	
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status	
networking solutions	Single Port For	warding 丨 Port R	ange Forwarding	Port Range Trigg	ering 📔 DMZ	Qos		
DMZ	🔘 Enabl	ed 💿 Disabled						
	Source IP A	ddress:	Any IP Add	Any IP Address				
	Destination:							
	Apply Can	cel						

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.

6.5.5 QoS

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

							MIMO XR WIRELESS ROUTE
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networkingsolutions	Single Port Forw	varding 丨 Port Ra	nge Forwarding	Port Range Trigge	ring DMZ	Qos	
QoS (Quality of Service)							
Wireless	WMM Support:	۲	Enabled 🔘 Disak	led (Default: Enabled)		
	No Acknowledge	ement: 💿	Enabled 🔘 Disak	iled (Default: Enabled)		
Internet Access Priority	🔘 Enabled 🧕	Disabled					
Category	Applications	*					
	Applications	MSN Messeng	jer 🔽				
	Priority	Medium (Reco	mmend) 🔽				
		Add					
Summary	Priority	Name	Informati	on			
	Apply Canc	el					

6.6 Administration

6.6.1 Management

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

						MIMO XR WIRELESS ROUT
	Setup Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networkingsolutions	Management Log Diagn	ostics Factory De	fault Firmwar	e Upgrade		
Router Password						
Local Router Access	Router Password :	•••••				
	Re-enter to confirm:	•••••				
Web Access	Use HTTPs:	🔘 Enabled 💿 Di	sabled			
	vVeb Utility Access via vVireless:	📀 Enabled 🔘 Di	sabled			
Remote Access	Remote Management:	🔘 Enabled 💿 Di	sabled			
	Use HTTPs:	🔵 Enabled 💿 Di	sabled			
	Remote Upgrade:	🔿 Enabled 💿 Di	sabled			
	Allow Remote IP Address:	Any IP Address				
	Remote Management Port:	0.0.	0.0~0			
Backup and Restore	Backup Configurations	s Restore C	onfigurations			
UPnP						
	💿 Enabled 🔘 Disabled					
	Allow Users to Configure:	🔘 Enabled 💿 Disa	bled			
	Allow Users to Disable Internet Access:	🔘 Enabled 💿 Disa	bled			
	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 Router Access: Select to enable or disable remote management/upgrade of the router. You can allow remote management from any IP Address or a specified IP Address as well as the port number.

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

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 Log

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

							MIMO XR WIRELESS ROUTER	
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status	
networking solutions	Management	Log 🛛 Diagnosti	ics 📔 Factory De	efault Firmwe	are Upgrade			
System Log								
	🔵 Enable	d 💿 Disable	ed					
	Logviewer							
	View Log							
	Apply Can	cel						

6.6.3 Diagnostics

							MIMO XR WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Management	Log Diagnost	tics 📔 Factory De	efault Firmwa	re Upgrade		
Diagnostics							
Ping Test							
	IP or URL A	ddress:					
	Packet Size	e:	64 bytes (3)	2~65500)			
	Times to Pin	g:	5 💌				
			Start to Ping				
Traceroute Test	IP or URL A	ddress:					
			Start to Trace	route			

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 Factory Defaults

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

							MIMO XR WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Management	Log 🛛 Diagnosti	ics 📔 Factory De	efault Firmvva	re Upgrade		
Factory Defaults							
	Resto	re Factory Defaults	;				

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

6.6.5 Firmware Upgrade

							MIMO XR" WIRELESS ROUTER		
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status		
networking solutions	Management	Log 📔 Diagnosti	ics 📔 Factory De	efault Firmwa	re Upgrade				
Firmware Upgrade	Please Sel Upgrade:	ect a File to	Start to Upgr	rade	Browse				
	Warning: Upgrading firmware may take a few minutes, please don't turn off the power or press the reset button.								
					0%				
	Upgrade must NOT be interrupted !!								

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

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 Router

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

							MIMO XR" Wireless Router
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networkingsolutions	Router	Local Network	Vireless Netwo	rk			
Router Information							
	Firmware Version:		v1.0.18				
	Current Time:		Thu Jul 21 2	2:01:53 2005 (GMT	-08:00)		
	Internet MAC Address:		00:14:A5:01:4	IF:41			
	Host Name:						
	Domain Na	me:	Airlink101				
Internet Connections							
internet connections	Connection	Type:	Automatia (onfiguration - DH	CD.		
	Connection Type: Internet IP Address:		Automatic C 192.168.1.1	onfiguration - Dh	CP		
	Subnet Mask:		255.255.255.				
	Default Gateway:		192.168.1.1	,			
	DNS 1:		192.168.1.1				
	DNS 2:		0.0.0.0				
	DNS 3:		0.0.0.0				
	MTU:		Auto	Auto			
	IP Add	Iress Release	IP Address F	Renew			
					Refresh		

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

6.7.2 Local Network

							MIMO XR WIRELESS ROUTER
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Router	Local Network	Vireless Netwo	'k			
Local Network							
	Local MAC Address:		00:14:A5:01:4F:40				
	Router IP Address:		192.168.1.1				
	Subnet Mask:		255.255.255.0				
DHCP Server							
	DHCP Sever :		Enable				
	Start IP Address:		192.168.1.100				
	End IP Address:		192.168.1.149				
	DHCP	Clients Table					

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

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

6.7.3 Wireless Network

							MIMO XR" WIRELESS ROUTE
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status
networking solutions	Router	Local Network	VVireless Netwo	rk			
Wireless Network							
	MAC Address:		0:14:A5:01:4F:40				
	Mode:		Aixed				
	Network Name (SSID):		lefault				
	Channel:						
	Security:		isable				
	SSID Broadcast:		nable				

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

7. Troubleshooting

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

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

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

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

Step 4 Turn on the computer.

Step 5 Reconfigure the router as described in Section 3.

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

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

							MIMO XR WIRELESS ROUTE	
	Setup	Wireless	Security	Access Restrictions	Applications Gaming	Administration	Status	
networking solutions	Router	Local Network	VVireless Netwo	rk				
Router Information								
	Firmware \	/ersion:	v1.0.18					
	Current Time:		Thu Jul 21 2	Thu Jul 21 22:01:53 2005 (GMT -08:00)				
	Internet MA	C Address:	00:14:A5:01:	4F:41				
	Host Name:							
	Domain Na	ne:	Airlink101					
Internet Connections								
	Connection Type:		Automatic (Configuration - DH	СР			
	Internet IP Address:		192.168.1.1					
	Subnet Ma:	sk:	255.255.255.	255.255.255.0				
	Default Gal	eway:	192.168.1.1					
	DNS 1:		192.168.1.1					
	DNS 2:		0.0.0.0					
	DNS 3:		0.0.0.0					
	MTU:		Auto					
	IP Add	Iress Release	IP Address	Renew				
					Refresh			

If you see all 0's, click on the **IP Renew** button (for Cable Modern 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

E-mail: support@airlink101.com

Toll Free: 1-888-746-3238

Web Site: www.airlink101.com

*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.

Copyright © 2005 AirLink101. All rights reserved. AirLink101, the stylized AirLink101 logo, specific product designations, and all other words and logos that are identified as trademarks and/or service marks are, unless noted otherwise, the trademarks and service marks of AirLink101. All other product or service names are the property of their respective holders. AirLink101 products are protected under numerous U.S. and foreign patents and pending applications, mask work rights, and copyrights.