

Air3GII

Wireless 11n 150Mbps 3G Broadband Router

User's Manual







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FCC 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 radio interference in a commercial environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instructions in this manual, may cause harmful interference to radio communications.



Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interference.

CE Declaration of Conformity

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022/A1 Class B.



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

The Air3GII is a high-performance tool that supports wireless networking at home, work, or in a public place. The Air3GII supports a USB 3G modem card, either WCDMA or EVDO and even HSDPA as well, and supports wireless data transfers up to 150M bps, and wired data transfers up to 100 Mbps. The Air3GII is compatible with industry security features.



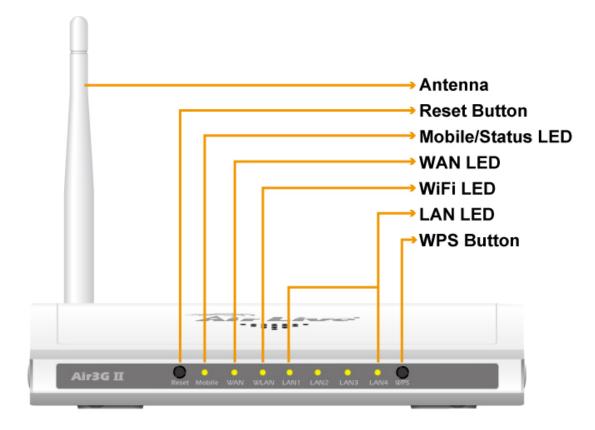
1.1 Packing List

Item s	Description	Contents	Quantity
1	Air3GII		1
2	Power adapter		1
3	CD	Air Linc Creature Martine Mart	1

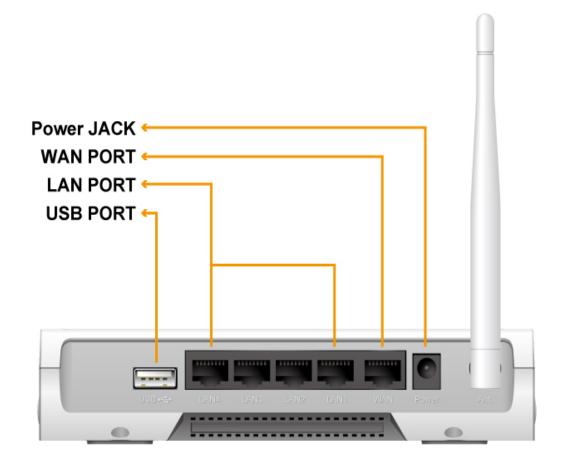


1.2 Hardware Installation

A. Hardware configuratio









B. Installation Steps



Note: DO NOT connect the router to power before performing the installation steps below.

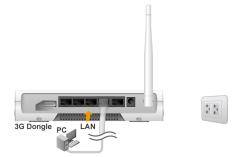
Step 1.

Plug a USB modem into USB port.



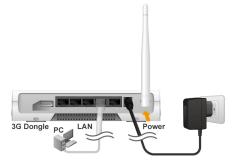
Step 2.

Insert RJ45 cable into LAN Port on the back panel of the router. Then plug the other end of into computer.



Step 3.

Plug the power jack into the receptor on the back panel of the router. Then plug the other end into a wall outlet or power strip.







Specification

Getting Started with Easy Setup Utility

There are two approaches for you to set up the Air3GII quickly and easily. One is through executing the provided Windows Easy Setup Utility on your PC, and the other is through browsing the device web pages and configuration.

2.1Easy Setup by Windows Utility

Step 1:

Install the Easy Setup Utility from the provided CD then follow the steps to configure the device.

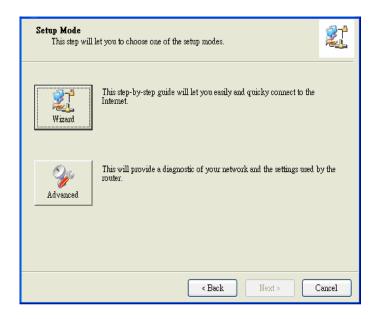
Step 2:

Select Language then click "Next" to continue.

1 2	Welcome to the Easy Setup for WiFi Combo Router This wizard will guide you to simply and quickly configure the WiFi Combo Router.
3_	Select Language: English
	< Back Next > Cancel



Step 3 : Then click the "Wizard" to continue.



Step 4 : Click "Next" to continue.

Prepare Setup This step will make sure c	onnection can be established between your PC and router
Please make sure the following	items.
 Make sure the router is powe Make sure your network ada Make sure your network ada 	pter is connected to the LAN port of the router.
Help	< Back Next > Cancel



Step 5:

Select Wireless Enable, and then click "Next" to continue.

This step will setup your basic wireless network settings.	
This will provide you with a basic workable setting for your wireless. You can also select to later.	do it
Wireless: Enable Disable Enable	
🗖 Do not set at this time.	
Help < Back Next > C	Cancel

Step 6 :

Enter SSID, Channel and Security options, and then click "Next" to continue.

This step will setup your basic wireless r	etwork settings.
Please assign the parameters to your wireless to the Router's configuration page.	networking. If you need more settings, please login
SSID: arrive Channel: 11 Security: Disable	
Help	< Back Next > Cancel



Step 7 : Click" Let me select WAN service by myself" to select WAN service manually.



Step 8:

Select 3G Service by clicking 3G icon to continue.

Select WAN Service This step lets you sele	ect WAN service by y	ourself	
Please select the WAN serv	rice for setup.		
2	2	2	
Dynamic IP	Static IP	PPPoE	
2	2	2	
PPTP	L2TP	3G	
Help		< Back Next >	Cancel



Step 9-1 :

Select "Auto-Detection" and the Utility will try to detect and configure the required 3G service settings automatically. Click "Next" to continue.

WAN Setting 3G Service					
Please input the	WAN service infor	mation.			
	lp profile to-Detection		🔿 Manual		
	PIN Code:			(Optional)	
Diale	APN: d Number:			(Optional)	
	Username: Password:				
Help			< Back	Next >	Cancel

Step 9-2:

Or you can select "Manual" and manually fill in the required 3G service settings provided by your ISP. Click "Next" to continue.

Please input the WAN service in	formation.			
Dial-Up profile				
○ Auto-Detection		💿 Manual		
PIN Code:	internet		(Optional)	
APN:	1234		(Optional)	
Dialed Number:	*99#		(opaona)	
Username:	Admin			
Password:	1234			



Step 10: Click "Next" to save your setting.

SSID:default Channel:11 Security:WEP WAN Setting (3G Service) APN:1234 PIN Code:internet Dialed Number:"99# Modify Settings	Channel: 11 Security:WEP WAN Setting (36 Service) APN:1234 PIN Code:internet	The se	ettings will be saved to the Router as	nd reboot at the next step) .	
Security:WEP WAN Setting (3G Service) APN:1234 PIN Code:internet Dialed Number:*99# Modify Settines	Security:WEP WAN Setting (36 Service) APN:1234 PIN Code:internet Dialed Number:*99# Username:Admin				~	
WAN Setting (36 Service) APN:1234 PIN Code:internet Dialed Number:*99#	WAN Setting (36 Service) APN:1234 PIN Code:internet Dialed Number:*99# Username:Admin					
APN:1234 PIN Code:internet Dialed Number:*99# Modify Settings	APN:1234 PIN Code:internet Dialed Number:*99# Username:Admin Modify Settings		Security:WEP			
APN:1234 PIN Code:internet Dialed Number:*99# Modify Settings	APN:1234 PIN Code:internet Dialed Number:*99# Username:Admin Modify Settings		WAN Setting (36 Service	e)		
Dialed Number:*99# Modify Settings	Dialed Number: *99# Username:Admin Modify Settings			, ,		
Modify Settings	Username:Admin Modify Settings		PIN Code:internet			
1 MOULA 2610152	Username:Admin		Dialed Number:*99#		ſ	Madie. Cation
Username:Admin	Password: 1234		Username:Admin			Moonly settings
Password:1234			Password:1234		~	

Step 11:

The Air3GII is rebooted to make your entire configuration take effect.

Save Settings		2
Reboot router		
Help	< Back	Next > Cancel



Step 12: Click "Next" to test the	WAN Service Test
Internet connection or you can ignore test.	This step will test the internet connection to make sure you can surf the internet.
	Ignore Test
	Help < Back Next > Cancel
Step 13: Click "Next" to test WAN	Save Settings
Networking service.	Settings have been saved and initialized. The next step will test your Internet connection. Or you can choose to ignore the test.
Step 14:	Help < Back Next > Cancel Setup Completed
Setup is completed.	The Router is configured, and the WAN service functionality is working
	Finish



2.2 Easy Setup by Configuring Web Pages

You can also browse web UI to configure the device.

Browse to Activate the Setup Wizard

http://192.168.1.254/ Air3GII Wireless 11n 150Mbps 3G Broadband Router
System Password : (default: airlive)
▶ Logout English English Português Polska Español
Please Select the Operations
Setup Wizard [EXIT] Setup Wizard will guide you through a basic configuration procedure step by step. Step 1. Setup Login Password. Step 2. Setup Time Zone. Step 3. WAN Setup. Step 4. Wireless Setup. Step 5. Summary. Step 5. Summary. Step 6. Finish. Step 6. Finish. Step 1. Setur > Password > Time > LAN/WAN > Wireless > Summary > Finish!] Next >

Configure with the Setup Wizard



Step 1: Change System	Setup Wizard - Setup Login Password	[EXIT]
Step 1: Change System Password. Set up your system password. (Default : admin)	Old Password New Password Reconfirm	
	<pre><back [="" start=""> Password > Time > LAN/WAN > Wireless > Summary > Finish!]</back></pre>	Next >
Step 2: Select Time Zone.	Setup Wizard - Setup Time Zone	[EXIT]
	(GMT-08:00) Pacific Time (US & Canada)	
	<pre><back [start=""> Password > Time > LAN/WAN > Wireless > Summary > Finish!]</back></pre>	Next >
Step 3: Select WAN	 Setup Wizard - Select WAN Type 	[EXIT]
Type. Choose Auto-Detecting or Manually to set WAN		
Туре.	Auto Detecting WAN Type	
	Setup WAN Type Manually Setup WAN Type Manually (Start > Password > Time > LAN/WAN > Wireless > Summary > Finish!]	Next>
	[Start > Lassword > time > LANAMAN > Anteless > Summary > Finish:]	INCALS



Step 4: Select Wan Type. If you want to use 3G service as the main internet access, please set the WAN interface as "Wireless WAN" and the WAN type as "3G".

Setup Wizard - Select WAN Type		
LAN IP Address	192.168.1.254	
WAN Interface	Ethernet WAN 🔽	
WAN Type	PPP over Ethernet	

Step 5: 3G Mode. Select Auto-Detection then click "Next" to continue.	Setup Wizard - 3G Dial-Up Profile PIN Code Setup Co	Auto-Detection Manual Coptional) Password > Time > LAN/WAN > Wireless > Summary > Finish!]	[EXIT]
Step 6: Set up your Wireless Network. Set up your SSID.	Setup Wizard - Wireless sett Wireless Module Network (D(SSID) Channel Kannel Kannel	Password > Time > LAN/WAN > <u>Wireless</u> > Summary > Finish!]	[EXIT]



Step 7: Setup your	Setup Wizard - Wireless set	ettings		[EXIT]
Encryption Key here, then click"Next" to continue.	Authentication 802.1X Encryption WEP Key 1 WEP Key 2 WEP Key 3 WEP Key 4	t > Password > Tir	Open Open Shared Auto WPA.PSK WPA2 WPA2 WPA2PSK WPA2PSK WPA2SK/WPA2-PSK WPA2WPA/WPA2 WPA/WPA2	> Finish!] Next >
Step 8: Apply your	Setup Wizard - Summary			[EXIT]
Setting.		Disesse		
		[WAN Setting]	confirm the information below	
Then click Apply Setting.		WAN Type	3G	
		APN	internet	
		PIN Code	-	
		Dialed Number	*99#	
		Account	-	
		Password	*****	
		[Wireless Setting	1]	
		Wireless	Enable	
		SSID	airlive	
		Channel	11	
		Authentication	WPA2-PSK	
		Encryption	AES	
		Preshare Key	1234567890	
		🗌 Do you	want to proceed the network testing?	
	<back [="" start<="" th=""><th>> Password > Tim</th><th>e > LAN/WAN > Wireless > <u>Summary</u> ></th><th>Finish!] Apply Settings</th></back>	> Password > Tim	e > LAN/WAN > Wireless > <u>Summary</u> >	Finish!] Apply Settings
Stop Or	Setup Wizard - Apply setting	ins		[EXIT]
Step 9:	G Scup Wzurd Apply Scul	95		[EWI]
Click Finish to complete it.				
		Confi	guration is Completed.	
		Count	guration is completed.	
		Pleas	e click "Finish" to restart the device.	

<Back
[Start > Password > Time > LAN/WAN > Wireless > Summary > Finish
]
Finish



Installation/ Un-installation

Making Configuration

Whenever you want to configure your network or this device, you can access the Configuration Menu by opening the web-browser and typing in the IP Address of the device. The default IP Address is: 192.168.123.254

G • [E http://192.168.1.254/	¥
🚖 Favorites	Air3GII Wireless 11n 150Mbps 3G Broadband Router	

Enter the default password "admin" in the System Password and then click 'login' button.



Then, you can browse the "Advanced" configuration pages for configuring this device.

3.1 Basic Setting





3.1.1. Network Setup

- 1. LAN IP Address: The local IP address of this device. The computers on your network must use the LAN IP address of this device as their Default Gateway. You can change it if necessary.
- 2. **Subnet Mask:** Input your Subnet mask. (All devices in the network must have the same subnet mask.) The default subnet mask is 255.255.255.0.
- 3. **WAN Interface:** Select Ethernet WAN or Wireless WAN to continue.
- 4. **WAN Type**: WAN connection type of your ISP. You can click WAN Type combo button to choose a correct one from the following options:

► WAN Interface	Ethernet WAN 💌
► WAN Type	Dynamic IP Address 💌
Activate WWAN for Auto-Failover	Dynamic IP Address Static IP Address PPP over Ethernet PPTP
▶ Host Name	L2TP (optional)

A. 3G

Internet Setup	[HELP]	
 Combo WAN Status 	Load Sharing Settings	
► WAN Interface	Wireless WAN 💌	
► WAN Type	3G 💌	
▶ Dial-Up Profile		
▶ PIN Code	(optional)	
Connection Control	Auto Reconnect (always-on) 💌	
Allowed Connection Time		
▶ MTU	1500 (0 is auto)	
▶ Keep Alive	 Disable LCP Echo Request Interval Max Failure Time Itimes Ping Remote Host Host IP Interval 60 seconds 	
Save Undo		



For 3G WAN Networking. The WAN fields may not be necessary for your connection. The information on this page will only be used when your service provider requires you to enter a User Name and Password to connect with the 3G network.

Please refer to your documentation or service provider for additional information.

- Dial-Up Profile: Select "Auto-Detection" or "Manual" to continue. If "Auto-Detection" is selected, the device will try to configure some ISP specific dial-up parameters automatically according to the Country, Telecom, and 3G Network information you entered..
- 2. **Country**: Select your country.
- 3. Telecom: Select your telecom.
- 4. **3G Network**: Select the 3G Network
- 5. **APN**: Enter the APN for your PC card here.(Optional)
- 6. Pin Code: Enter the Pin Code for your SIM card. (Optional)
- 7. **Dial-Number**: This field should not be altered except when required by your service provider.
- 8. **Account**: Enter the new User Name for your PC card here, you can contact to your ISP to get it. (Optional)
- 9. **Password**: Enter the new Password for your PC card here, you can contact to your ISP to get it. (Optional)
- 10. Authentication: Choose your authentication.
- 11. **Primary DNS**: This feature allows you to assign a Primary DNS Server, contact to your ISP to get it. (Optional)
- 12. **Secondary DNS**: This feature allows you to assign a Secondary DNS Server, you can contact to your ISP to get it. (Optional)
- 13. Connection Control: Select your connection control. There are 3 modes to select:

Connect-on-demand: The device will link up with ISP when the clients send outgoing packets.

Auto Reconnect (Always-on): The device will link with ISP until the connection is established.

Manually: The device will not make the link until someone clicks the connect-button in the Status-page.



- 14. **Keep Alive**: This feature must collocate with the function "Auto" of "Auto Connect". Enable it to keep the connection always be established.
- 15. **LCP Echo Request**: Enter the time interval and the maximum failure count. The device will constantly send out the LCP packets for keeping the connection alive.
- 16. **Ping Remote Host**: Enter the Remote host IP and the time interval to send the ping packets for keeping the connection alive.

B. Static IP Address:

LAN Setup	
Item	Setting
► LAN IP Address	192.168.1.254
Subnet Mask	255.255.255.0
Internet Setup	[HELP]
Combo WAN Status	Load Sharing Settings
WAN Interface	Ethernet WAN 💌
► WAN Type	Static IP Address 🗸
 Activate WWAN for Auto-Failover 	Enable Remote Host for keep alive:
WAN IP Address	
WAN Subnet Mask	
► WAN Gateway	
Primary DNS	
 Secondary DNS 	
▶ NAT disable	Enable
Save Undo	

3.Installation/Un-installation



- Activate WWAN for Auto-Failover: With this function enabled, when the Ethernet WAN connection is broken, the device will automatically activate the WWAN connection and keep you connected to internet with the alternative WWAN broadband service. Meanwhile, if the device detected that the Ethernet WAN connection is recovered, your broadband connection will be switched to use the Ethernet WAN service.
- 2. WAN IP Address, Subnet Mask, Gateway, Primary and Secondary DNS: Enter the proper settings provided by your ISP.

C. Dynamic IP Address:

LAN Setup		
Item	Setting	
▶ LAN IP Address	192.168.1.254	
 Subnet Mask 	255.255.255.0	
Internet Setup	[HELP]	
 Combo WAN Status 	Load Sharing Settings	
WAN Interface	Ethernet WAN 💌	
► WAN Type	Dynamic IP Address 🐱	
 Activate WWAN for Auto-Failover 	Enable Remote Host for keep alive:	
▶ Host Name	(optional)	
► ISP registered MAC Address	Clone	
Connection Control	Connect-on-Demand	
▶ NAT disable	Enable	
Save Undo		

 Activate WWAN for Auto-Failover: With this function enabled, when the Ethernet WAN connection is broken, the device will automatically activate the WWAN connection and keep you connected to internet with the alternative WWAN broadband service. Meanwhile, if the device detected that the Ethernet WAN connection is recovered, your broadband connection will be switched to use the Ethernet WAN service



- 2. Host Name: Optional, required by some ISPs, for example, @Home.
- 3. Connection Control: There are 3 modes to select:

Connect-on-demand: The device will link up with ISP when the clients send outgoing packets.

Auto Reconnect (Always-on): The device will link with ISP until the connection is established.

Manually: The device will not make the link until someone clicks the connect-button in the Status-page.

D. PPP over Ethernet

Internet Setup [HELF	
 Combo WAN Status 	Load Sharing Settings
 WAN Interface 	Ethernet WAN 🐱
► WAN Type	PPP over Ethernet
Activate WWAN for Auto-Failover	Enable Remote Host for keep alive:
PPPoE Account	86128161@hinet.net
PPPoE Password	•••••
Primary DNS	
Secondary DNS	
Connection Control	Connect-on-Demand 🗸
Maximum Idle Time	600 seconds
PPPoE Service Name	(optional)
 Assigned IP Address 	(optional)
► MTU	0 (0 is auto)
▶ NAT disable	Enable
Save Undo	



- Activate WWAN for Auto-Failover: With this function enabled, when the Ethernet WAN connection is broken, the device will automatically activate the WWAN connection and keep you connected to internet with the alternative WWAN broadband service. Meanwhile, if the device detected that the Ethernet WAN connection is recovered, your broadband connection will be switched to use the Ethernet WAN service
- PPPoE Account and Password: The account and password your ISP assigned to you. For security, this field appears blank. If you don't want to change the password, leave it blank.
- 3. Connection Control: There are 3 modes to select:

Connect-on-demand: The device will link up with ISP when the clients send outgoing packets.

Auto Reconnect (Always-on): The device will link with ISP until the connection is established.

Manually: The device will not make the link until someone clicks the connect-button in the Status-page.

- 4. **Maximum Idle Time**: the amount of time of inactivity before disconnecting your PPPoE session. Set it to zero or enable "Auto-reconnect" to disable this feature.
- 5. **PPPoE Service Name**: Optional. Input the service name if your ISP requires it. Otherwise, leave it blank.
- 6. **Maximum Transmission Unit (MTU):** Most ISP offers MTU value to users. The default MTU value is 0 (auto).



E. PPTP

Internet Setup		
 Combo WAN Status 	Load Sharing Settings	
WAN Interface	Ethernet WAN 💌	
► WAN Type	PPTP 💌	
Activate WWAN for Auto-Failover	Enable Remote Host for keep alive:	
▶ IP Mode	Dynamic IP Address 🐱	
My IP Address		
 My Subnet Mask 		
 Gateway IP 		
Server IP Address/Name		
PPTP Account		
PPTP Password	•••••	
Connection ID	(optional)	
Maximum Idle Time	600 seconds	
Connection Control	Connect-on-Demand 💌	
▶ MTU	0 (0 is auto)	
Save Undo		

- Activate WWAN for Auto-Failover: With this function enabled, when the Ethernet WAN connection is broken, the device will automatically activate the WWAN connection and keep you connected to internet with the alternative WWAN broadband service. Meanwhile, if the device detected that the Ethernet WAN connection is recovered, your broadband connection will be switched to use the Ethernet WAN service
- 2. **IP Mode**: Please check the IP mode your ISP assigned, and select "Static IP Address" or "Dynamic IP Address".
- 3. **My IP Address** and **My Subnet Mask**: The private IP address and subnet mask your ISP assigned to you.



- 4. **Gateway IP** and **Server IP Address/Name**: The IP address of the PPTP server and designated Gateway provided by your ISP.
- 5. **PPTP Account** and **Password**: The account and password your ISP assigned to you. If you don't want to change the password, keep it blank.
- 6. **Connection ID**: Optional. Input the connection ID if your ISP requires it.
- Maximum Idle Time: the time of no activity to disconnect your PPTP session. Set it to zero or enable "Auto-reconnect" to disable this feature. If Auto-reconnect is enabled, this device will connect with ISP automatically after system is restarted or connection is dropped.
- 8. Connection Control: There are 3 modes to select:

Connect-on-demand: The device will link up with ISP when the clients send outgoing packets.

Auto Reconnect (Always-on): The device will link with ISP until the connection is established.

Manually: The device will not make the link until someone clicks the connect-button in the Status-page.

9. **Maximum Transmission Unit (MTU)**: Most ISP offers MTU value to users. The default MTU value is 0 (auto).



F. L2TP

Internet Setup [HE]		
 Combo WAN Status 	Load Sharing Settings	
WAN Interface	Ethernet WAN 💌	
► WAN Type	L2TP	
Activate WWAN for Auto-Failover	Enable Remote Host for keep alive:	
▶ IP Mode	Dynamic IP Address 🗸	
▶ IP Address		
 Subnet Mask 		
WAN Gateway IP		
Server IP Address/Name		
L2TP Account		
L2TP Password	•••••	
Maximum Idle Time	600 seconds	
Connection Control	Connect-on-Demand 🗸	
► MTU	0 (0 is auto)	
Save Undo		

- Activate WWAN for Auto-Failover: With this function enabled, when the Ethernet WAN connection is broken, the device will automatically activate the WWAN connection and keep you connected to internet with the alternative WWAN broadband service. Meanwhile, if the device detected that the Ethernet WAN connection is recovered, your broadband connection will be switched to use the Ethernet WAN service
- 2. **IP Mode**: Please check the IP mode your ISP assigned, and select "Static IP Address" or "Dynamic IP Address".
- 3. **My IP Address** and **My Subnet Mask**: The private IP address and subnet mask your ISP assigned to you.
- 4. Gateway IP and Server IP Address/Name: The IP address of the L2TP server and designated Gateway provided by your ISP.



- 5. **L2TP Account** and **Password**: The account and password your ISP assigned to you. If you don't want to change the password, keep it blank.
- 6. Connection ID: Optional. Input the connection ID if your ISP requires it.
- Maximum Idle Time: The time of no activity to disconnect your L2TP session. Set it to zero or enable "Auto-reconnect" to disable this feature. If Auto-reconnect is enabled, this device will connect with ISP automatically, after system is restarted or connection is dropped.
- 8. Connection Control: There are 3 modes to select:

Connect-on-demand: The device will link up with ISP when the clients send outgoing packets.

Auto Reconnect (Always-on): The device will link with ISP until the connection is established.

Manually: The device will not make the link until someone clicks the connect-button in the Status-page.

9. **Maximum Transmission Unit (MTU)**: Most ISP offers MTU value to users. The default MTU value is 0 (auto).

3.1.2. DHCP Server

DHCP Server [HELP		
Item	Setting	
DHCP Server	O Disable 💿 Enable	
 IP Pool Starting Address 	100	
IP Pool Ending Address	200	
▶ Lease Time	86400 Seconds	
▶ Domain Name		
Save Undo More Clients List Fixed Mapping		



- 1. **DHCP Server:** Choose either **Disable** or **Enable**. If you enable the DHCP Server function, the following settings will be effective.
- 2. **IP Pool Starting/Ending Address:** Whenever there is a request, the DHCP server will automatically allocate an unused IP address from the IP address pool to the requesting computer. You must specify the starting / ending address of the IP address pool.
- 3. Lease Time: DHCP lease time to the DHCP client.
- Domain Name: Optional, this information will be passed to the clients.
 Press "More>>" and you can find more settings
- 5. **Primary DNS/Secondary DNS:** Optional. This feature allows you to assign a DNS Servers
- Primary WINS/Secondary WINS: Optional. This feature allows you to assign a WINS Servers
- Gateway: Optional. Gateway Address would be the IP address of an alternate Gateway. This function enables you to assign another gateway to your PC, when DHCP server offers an IP to your PC.

Click on "Save" to store your settings or click "Undo" to give up the changes.

Press "Clients List" and the list of DHCP clients will be shown consequently.

DHCP Clients List						
IP Address	Host Name	MAC Address	Туре	Lease Time	Select	
192.168.1.100	airlive-3f42b3e	00-15-F2-46-AC-81	Wired	23:40:27		
Delete Back Refresh Fixed Mapping						

Press "Fixed Mapping" and the DHCP Server will reserve the special IP for designated MAC address.



• Fixe	• Fixed Mapping [HELP				
	DHCP clients select one 🖌 Copy to ID 🗸				
ID	MAC Address	IP Address	Enable		
1	00:15:F2:46:AC:81	192.168.1.100	~		
2					
3					
4					
5					
6					
7					
8					
9					
10					
	< <previous next="">> Save Undo Back</previous>				



3.1.3. Wireless Settings

Wireless Setting [HELP]		
Item	Setting	
 Wireless Module 	⊙ Enable ○ Disable	
Network ID(SSID)	airlive	
 SSID Broadcast 	€ Enable ○ Disable	
Channel	11 💌	
 Wireless Mode 	B/G/N mixed 💙	
 Authentication 	WPA2-PSK	
Encryption	AES 💌	
Preshare Key	1234567890	
Save Undo WDS Setting WPS Setup Wireless Client List		

Wireless settings allow you to set the wireless configuration items.

- 1. Wireless Module: You can enable or disable wireless function.
- Network ID (SSID): Network ID is used for identifying the Wireless LAN (WLAN). Client stations can roam freely over this device and other Access Points that have the same Network ID. (The factory default setting is "default")
- 3. **SSID Broadcast:** The router will broadcast beacons that have some information, including SSID so that wireless clients can know how many AP devices by scanning the network. Therefore, if this setting is configured as "Disable", the wireless clients can not find the device from beacons.
- Channel: The radio channel number. The permissible channels depend on the Regulatory Domain. The factory default setting is as follow: channel 1~11 for North America. (Channel 1~13 for European (ETSI); channel1~ 14 for Japan).
- 5. **Wireless Mode:** Choose "B/G mixed", "B only", "G only", "N only", "G/N mixed" or "B/G/N mixed". The factory default setting is "B/G/N mixed".

3.Installation/Un-installation



 Authentication mode: You may select one of authentication to secure your wireless network: Open Shared, Auto, WPA-PSK, WPA, WPA2-PSK, WPA2, WPA-PSK/WPA2-PSK, or WPA /WPA2.

Open

Open system authentication simply consists of two communications. The first is an authentication request by the client that contains the station ID (typically the MAC address). This is followed by an authentication response from the AP/router containing a success or failure message. An example of when a failure may occur is if the client's MAC address is explicitly excluded in the AP/router configuration.

Shared

Shared key authentication relies on the fact that both stations taking part in the authentication process have the same "shared" key or passphrase. The shared key is manually set on both the client station and the AP/router. Three types of shared key authentication are available today for home or small office WLAN environments.

Auto

The AP will Select the Open or Shared by the client's request automatically.

WPA-PSK

Select Encryption and Pre-share Key Mode If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits. If you select ASCII, the length of pre-share key is from 8 to 63. Fill in the key, Ex 12345678



WPA

Check Box was used to switch the function of the WPA. When the WPA function is enabled, the Wireless user must **authenticate** to this router first to use the Network service. RADIUS Server IP address or the 802.1X server's domain-name.

Select Encryption and RADIUS Shared Key

If you select HEX, you have to fill in 64 hexadecimal (0, 1, 2...8, 9, A, B...F) digits If you select ASCII, the length of pre-share key is from 8 to 63.

Key value shared by the RADIUS server and this router. This key value is consistent with the key value in the RADIUS server.

WPA-PSK2

WPA-PSK2 user AES and TKIP for Same the encryption, the others are same the WPA-PSK.

WPA2

WPA2 add uses AES and TKIP for encryption, the others are same the WPA.

WPA-PSK/WPA-PSK2

Another encryption options for WPA-PSK-TKIP and WPA-PSK2-AES, the others are same the WPA-PSK.

WPA/WPA2

Another encryption options for WPA-TKIP and WPA2-AES, the others are same the WPA.

By pressing **"WPS Setup"**, you can configure and enable the easy setup feature WPS (Wi-Fi Protection Setup) for your wireless network.



Wi-Fi Protected Setup		
Item	Setting	
▶ WPS	⊙ Enable ○ Disable	
► AP PIN	22174567 Generate New PIN	
 Config Mode 	Registrar 🕶	
 Config Status 	CONFIGURED Release	
Config Method	Push Button 💌	
▶ WPS status	NOUSED	
Save Trigger Cancel		

- 1. **WPS:** You can enable this function by selecting "Enable". WPS offers a safe and easy way to allow the wireless clients connected to your wireless network.
- 2. **AP PIN**: You can press Generate New Pin to get an AP PIN.
- 3. Config Mode: Select your config Mode from "Registrar" or "Enrollee".
- 4. **Config Status**: It shows the status of your configuration.
- 5. **Config Method**: You can select the Config Method here from "Pin Code" or "Push Button".
- 6. WPS status: According to your setting, the status will show "Start Process" or "No used"

Press "Wireless Clients List" and the list of wireless clients will be shown consequently.

Wireless Clients List		
ID	MAC Address	
1 00-15-AF-2F-5A-E5		
BackRefresh		



3.1.4. Change Password

Change Password				
Item	Setting			
 Old Password 				
New Password				
▶ Reconfirm				
Save Undo				

You can change the System Password here. We **strongly** recommend you to change the system password for security reason.



3.2 Forwarding Rules

 Virtual Server Allows others to access WWW, FTP, and other services on your LAN. Special Application This configuration allows some applications to connect, and work with the NAT router Miscellaneous IP Address of DMZ Host: Allows a computer to be exposed to unrestricted 2-way communication. Note that, this feature should be used only when needed. UPnP Setting: If you enable UPnP function, the router will work with UPnP devices/softwares. 		
 Special Application This configuration allows some applications to connect, and work with the NAT routed Miscellaneous IP Address of DMZ Host: Allows a computer to be exposed to unrestricted 2-way communication. Note that, this feature should be used only when needed. UPnP Setting: If you enable UPnP function, the router will work with UPnP 	•	
 This configuration allows some applications to connect, and work with the NAT router Miscellaneous IP Address of DMZ Host: Allows a computer to be exposed to unrestricted 2-way communication. Note that, this feature should be used only when needed. UPnP Setting: If you enable UPnP function, the router will work with UPnP 		
 Miscellaneous IP Address of DMZ Host: Allows a computer to be exposed to unrestricted 2-way communication. Note that, this feature should be used only when needed. UPnP Setting: If you enable UPnP function, the router will work with UPnP 	•	
 IP Address of DMZ Host: Allows a computer to be exposed to unrestricted 2-way communication. Note that, this feature should be used only when needed. UPnP Setting: If you enable UPnP function, the router will work with UPnP 		 This configuration allows some applications to connect, and work with the NAT router.
communication. Note that, this feature should be used only when needed. - UPnP Setting: If you enable UPnP function, the router will work with UPnP	•	Miscellaneous
- UPnP Setting: If you enable UPnP function, the router will work with UPnP		- IP Address of DMZ Host: Allows a computer to be exposed to unrestricted 2-way
		communication. Note that, this feature should be used only when needed.
devices/softwares.		- UPnP Setting: If you enable UPnP function, the router will work with UPnP
		devices/softwares.

3.2.1 Virtual Server

This product's NAT firewall filters out unrecognized packets to protect your Intranet, so all hosts behind this product are invisible to the outside world. If you wish, you can make some of them accessible by enabling the Virtual Server Mapping.

A virtual server is defined as a **Service Port**, and all requests to this port will be redirected to the computer specified by the **Server IP. Virtual Server** can work with **Scheduling Rules**, and give user more flexibility on Access control. For the details, please refer to **Scheduling Rule**.



Virtual	Virtual Server [HELP]				
	Well known servio	ces select one 💌 Co	py to ID -	- 💌	
ID	Service Ports	Server IP	Enable	Use Rule#	
1				(0) Always 🐱	
2				(0) Always 🔽	
3				(0) Always 🐱	
4				(0) Always 🐱	
5				(0) Always 🐱	
6				(0) Always 🐱	
7				(0) Always 🐱	
8				(0) Always 🐱	
9				(0) Always 🐱	
10				(0) Always 🗸	

For example, if you have an FTP server (port 21) at 192.168.123.1, a Web server (port 80) at 192.168.123.2, and a VPN server at 192.168.123.6, then you need to specify the following virtual server mapping table:



Service Port	Server IP	Enable
21	192.168.123. 1	V
80	192.168.123. 2	V
1723	192.168.123. 6	V

Click on "Save" to store your settings or click "Undo" to give up the changes.

3.2.2 Special AP

Some applications require multiple connections, like Internet games, Video conferencing, Internet telephony, etc. Because of the firewall function, these applications cannot work with a pure NAT router. **The Special Applications** feature allows some of these applications to work with this product. If the mechanism of Special Applications fails to make an application work, try setting your computer as the DMZ host instead.

Speci	Special Applications [HELP]				
	Popular applications select one 💙 Copy to ID 💙				
ID	Trigger	Incoming Ports	Enable		
1					
2					
3					
4					
5					
6					
7					
8					
Save Undo					



- 1. **Trigger:** The outbound port number issued by the application.
- 2. **Incoming Ports**: When the trigger packet is detected, the inbound packets sent to the specified port numbers are allowed to pass through the firewall.

This device provides some predefined settings. Select your application and click "**Copy to**" to add the predefined setting to your list.

Click on "Save" to store your settings or click "Undo" to give up the changes. 3.2.3 Miscellaneous

Miscellaneous Items [HELP]		
Item	Setting	Enable
▶ IP Address of DMZ Host		
▶ UPnP setting		~
Save Undo		

1. IP Address of DMZ Host

DMZ (Demilitarized Zone) Host is a host without the protection of firewall. It allows a computer to be exposed to unrestricted 2-way communication for Internet games, Video conferencing, Internet telephony and other special applications.

2. UPnP Setting

The device supports the UPnP function. If the OS of your client computer supports this function, and you enabled it, like Windows XP, you can see the following icon when the client computer gets IP from the device.





3.3 Security Setting

SEC	URITY SETTING
•	Packet Filters
	- Allows you to control access to a network by analyzing the incoming and outgoing
	packets and letting them pass or halting them based on the IP address of the source
	and destination.
•	Domain Filters
	- Let you prevent users under this device from accessing specific URLs.
•	URL Blocking
	- URL Blocking will block LAN computers to connect to pre-defined websites.
•	MAC Address Control
	- MAC Address Control allows you to assign different access right fordifferent users and
	to assign a specific IP address to a certain MAC address.
•	Miscellaneous
	- Remote Administrator Host: In general, only Intranet user can browse the built-in web
	pages to perform administration task. This feature enables you to perform administration
	task from remote host.
	- Administrator Time-out: The amount of time of inactivity before the devicewill
	automatically close the Administrator session. Set this to zero to disable it.
	- Discard PING from WAN side: When this feature is enabled, hosts on the WAN cannot
	ping the Device.



3.3.1 Packet Filters

Packet Filter includes both outbound filter and inbound filter. And they have same way to setting.

Packet Filter enables you to control what packets are allowed to pass the router. Outbound filter applies on all outbound packets. However, inbound filter applies on packets that destined to Virtual Servers or DMZ host only. You can select one of the two filtering policies:

- 1. Allow all to pass except those match the specified rules
- 2. Deny all to pass except those match the specified rules

•	Outbound Packet Filter [HELP]				
Item Setting					
<u>ه</u> ا	utbound Packet Filter		Enable		
	 Allow all to pass except those Deny all to pass except those 				
ID	Source IP	De	stination IP : Ports	Enable	Use rule#
1			-		(0) Always 🔽
2			•		(0) Always 🔽
3			•		(0) Always 🔽
4			-		(0) Always 🔽
5			:		(0) Always 🔽
6			-		(0) Always 🔽
7			-		(0) Always 🔽
8			:		(0) Always 🔽
	Save Undo Inbound Filter MAC Level				



You can specify 8 rules for each direction: inbound or outbound. For each rule, you can define the following:

- Source IP address
- Source port
- Destination IP address
- Destination port
- Protocol: TCP or UDP or both.
- Use Rule#

For source or destination IP address, you can define a single IP address (4.3.2.1) or a range of IP addresses (4.3.2.1-4.3.2.254). An empty implies all IP addresses.

For source or destination port, you can define a single port (80) or a range of ports (1000-1999). Add prefix "T" or "U" to specify TCP or UDP protocol. For example, T80, U53, U2000-2999, No prefix indicates both TCP and UDP are defined. An empty implies all port addresses. Packet Filter can work with **Scheduling Rules**, and give user more flexibility on Access control. For Detail, please refer to **Scheduling Rule**.

Each rule can be enabled or disabled individually.



3.3.2 Domain Filters

🗆 Doi	Domain Filter [HELP				
	Item	Setting			
► Dom	nain Filter	Enable			
► Log	DNS Query	Enable			
Privi	lege IP Addresses Range	From	o		
ID	Domain Suffix		Action	Enable	
1			Drop Log		
2			Drop Log		
3			Drop Log		
4			Drop Log		
5			Drop Log		
6					
7			Drop Log		
8			Drop Log		
9			Drop Log		
10	10 * (all others)		Drop Log	87.4	
	Save Undo				

Domain Filter prevents users under this device from accessing specific URLs.

- 1. **Domain Filter**: Check if you want to enable Domain Filter.
- 2. Log DNS Query: Check if you want to log the action when someone accesses the specific URLs.
- 3. **Privilege IP Address Range**: Setting a group of hosts and privilege these hosts to access network without restriction.
- 4. **Domain Suffix**: A suffix of URL can be restricted, for example, ".com", "xxx.com".



- Action: When someone is accessing the URL met the domain-suffix, what kind of action you want. Check "Drop" to block the access. Check "Log" to log this access.
- 6. **Enable**: Check to enable each rule.

Click on "Save" to store your settings or click "Undo" to give up the changes.

3.3.3 URL Blocking

URL Blocking will block LAN computers to connect with pre-define Websites. The major difference between "Domain filter" and "URL Blocking" is Domain filter require user to input suffix (like .com or .org, etc), while URL Blocking require user to input a keyword only. In other words, Domain filter can block specific website, while URL Blocking can block hundreds of websites by simply a **keyword**.

URL Blocking [HELP]			
Item Setting			ing
• URL BI	ocking	Enable	
ID		URL	Enable
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
Save Undo			



- 1. **URL Blocking**: Check if you want to enable URL Blocking.
- 2. **URL**: If any part of the Website's URL matches the pre-defined word, the connection will be blocked.

For example, you can use pre-defined word "sex" to block all websites if their URLs contain pre-defined word "sex".

3. Enable: Check to enable each rule.

Click on "Save" to store your settings or click "Undo" to give up the changes.

3.3.4 MAC Control

MAC Address Control allows you to assign different access right for different users and to assign a specific IP address to a certain MAC address.

MAC Address Control [HELF]						
Item		Setting				
MAC Address Control		Enable				
Connection control		Wireless and wired clients with C checked can connect to this device; and allow vunspecified MAC addresses to connect.				
Association control Wireless clients with A checked can associate to the wireless LAN; an allow unspecified MAC addresses to associate.		and				
	DHCP clients select one V Copy to ID V					
ID	MAC Address C A					
1						
2						
3						
4	4					
5	5					
		<-Previous Next>> Save Undo				



- 1. **MAC Address Control**: Check "Enable" to enable the "MAC Address Control". All of the settings in this page will take effect only when "Enable" is checked.
- 2. Connection control: Check "Connection control" to enable the controlling of which wired and wireless clients can connect with this device. If a client is denied to connect with this device, it means the client can't access to the Internet either. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table" (please see below), to connect with this device.
- 3. Association control: Check "Association control" to enable the controlling of which wireless client can associate to the wireless LAN. If a client is denied to associate to the wireless LAN, it means the client can't send or receive any data via this device. Choose "allow" or "deny" to allow or deny the clients, whose MAC addresses are not in the "Control table", to associate to the wireless LAN.

Click on "Save" to store your settings or click "Undo" to give up the changes.

3.3.5 Miscellaneous

Miscellaneous Items		[HELP]
Item	Setting	Enable
 Administrator Time-out 	300 seconds (0 to disable)	
Remote Administrator Host : Port		
 Discard PING from WAN side 		
DoS Attack Detection		
	Save Undo	



1. **Administrator Time-out**: The time of no activity to logout automatically, you may set it to zero to disable this feature.

2. Remote Administrator Host/Port

In general, only Intranet user can browse the built-in web pages to perform administration task. This feature enables you to perform administration task from remote host. If this feature is enabled, only the specified IP address can perform remote administration. If the specified IP address is 0.0.0.0, any host can connect with this product to perform administration task. You can use subnet mask bits "/nn" notation to specified a group of trusted IP addresses for example, "10.1.2.0/24".

NOTE: When Remote Administration is enabled, the web server port will be shifted to 80. You can change web server port to other port, too.

- 3. **Discard PING from WAN side**: When this feature is enabled, any host on the WAN cannot ping this product.
- 4. **DoS Attack Detection**: When this feature is enabled, the router will detect and log the DoS attack comes from the Internet. Currently, the router can detect the following DoS attack: SYN Attack, WinNuke, Port Scan, Ping of Death, Land Attack etc.



3.4 Advanced Setting

ADVA	NCED SETTING
•	System Log
	 Send system log to a dedicated host or email to specific receipts.
•	Dynamic DNS
	- To host your server on a changing IP address, you have to use dynamic domain name
	service (DDNS).
	QoS Rule
	- Quality of Service can provide different priority to different users or data flows, or
	guarantee a certain level of performance.
	SNMP
	- Gives a user the capability to remotely manage a computer network by polling and
	setting terminal values and monitoring network events.
•	Routing
	- If you have more than one routers and subnets, you may want to enable routing table to
	allow packets to find proper routing path and allow different subnets to communicate
	with each other.
•	System Time
	- Allow you to set device time manually or consult network time from NTP server.
•	Schedule Rule
	- Apply schedule rules to Packet Filters and Virtual Server.



3.4.1 System Log

System Log [HELP]			
Item	Setting	Enable	
 IP address for syslogd 			
 Setting of Email alert 			
SMTP Server : port	:		
SMTP Username			
SMTP Password			
 E-mail addresses 	nail addresses		
E-mail subject			
Save Undo View Log Email Log Now			

This page support two methods to export system logs to specific destination by means of syslog (UDP) and SMTP(TCP). The items you have to setup including:

- 1. **IP Address for Sys log**: Host IP of destination where sys log will be sent to. Check **Enable** to enable this function.
- 2. E-mail Alert Enable: Check if you want to enable Email alert (send syslog via email).
- SMTP Server IP and Port: Input the SMTP server IP and port, which are connected with ':'. If you do not specify port number, the default value is 25.
 For example, "mail.your url.com" or "192.168.1.100:26".
- 4. **Send E-mail alert to:** The recipients who will receive these logs, you can assign more than 1 recipient, using ';' or ',' to separate these email addresses.
- 5. **E-mail Subject**: The subject of email alert, this setting is optional.



3.4.2 Dynamic DNS

To host your server on a changing IP address, you have to use dynamic domain name service (DDNS). So that anyone wishing to reach your host only needs to know the name of it. Dynamic DNS will map the name of your host to your current IP address, which changes each time you connect your Internet service provider.

Before you enable **Dynamic DNS**, you need to register an account on one of these Dynamic DNS servers that we list in **Provider** field.

Dynamic DNS [HELP]				
Item	Setting			
▶ DDNS	⊙ Disable ◯ Enable			
Provider DynDNS.org(Dynamic)				
▶ Host Name				
 Username / E-mail 				
Password / Key				
Save Undo				

To enable **Dynamic DNS** click the check box next to **Enable** in the **DDNS** field. Next you have to enter the appropriate information about your Dynamic DNS Serve .**Provider**, **Host Name**, **Username/E-mail**, and **Password/Key**. You can get this information when you register an account on a Dynamic DNS server.



3.4.3 QOS

QoS Rule							
	Item		Setting				
► QoS	Control		Enable	Enable			
Band	width of Upstream		kbps	(Kilobit	s per s	second)	
ID	Local IP : Ports		Remote IP : Ports	QoS Pri	iority	Enable	Use rule#
1	:		:	High	*		(0) Always 🗸
2	:		-	High	*		(0) Always 🗸
3			-	High	*		(0) Always 🔽
4			:	High	<		(0) Always 🔽
5			:	High	<		(0) Always 🔽
6			:	High	<		(0) Always 🔽
7			:	High	<		(0) Always 🔽
8	8		:	High	<		(0) Always 🔽
Save Undo							

Provide different priority to different users or data flows, or guarantee a certain level of performance.

- 1. **QOS Control**: Check **Enable** to enable this function.
- 2. Bandwidth of Upstream: Set the limitation of upstream bandwidth
- 3. Local IP : Ports: Define the Local IP address and ports of packets
- 4. Remote IP : Ports: Define the Remote IP address and ports of packets
- 5. **QoS Priority:** This defines the priority level of the current Policy Configuration. Packets associated with this policy will be serviced based upon the priority level set. For critical applications High or Normal level is recommended. For non-critical applications select a Low level.
- 6. **Enable**: Check to enable the corresponding QOS rule.
- 7. **User Rule#**: The QoS rule can work with Scheduling Rule number#. Please refer to the Section 3.1.4.7 Schedule Rule.



3.4.4 SNMP

In brief, SNMP, the Simple Network Management Protocol, is a protocol designed to give a user the capability to remotely manage a computer network by polling and setting terminal values and monitoring network events.

SNMP Setting [HELP			
Item	Setting		
Enable SNMP	Local Remote		
 Get Community 			
Set Community			
► IP 1			
► IP 2			
▶ IP 3			
▶ IP 4			
SNMP Version	⊙ V1 ○ V2c		
WAN Access IP Address			
Save Undo			

- 1. **Enable SNMP**: You must check "Local", "Remote" or both to enable SNMP function. If "Local" is checked, this device will response request from LAN. If "Remote" is checked, this device will response request from WAN.
- 2. Get Community: The community of GetRequest that this device will respond.
- 3. **Set Community**: The community of SetRequest that this device will accept.
- 4. **IP 1, IP 2, IP 3, IP 4**: Enter the IP addresses of your SNMP Management PCs. User has to configure to where this device should send SNMP Trap message.
- 5. **SNMP Version**: Select proper SNMP Version that your SNMP Management software supports.



 WAN Access IP Address: If you want to limit the remote SNMP access to specific computer, please enter the PC's IP address. The default value is 0.0.0.0, and it means that any internet connected computer can get some information of the device with SNMP protocol.

Click on "Save" to store your settings or click "Undo" to give up the changes.

3.4.5 Routing

If you have more than one routers and subnets, you will need to enable routing table to allow packets to find proper routing path and allow different subnets to communicate with each other. The routing table allows you to determine which physical interface address to use for outgoing IP data grams.

•	Routing Table [HELP]					
Item		Setting				
Dynamic Routing		⊙ Disable ◯ RIPv1 ◯ R	IPv2			
► S	tatic Routing	⊙ Disable ○ Enable				
ID	Destination	Subnet Mask	Gateway	Нор	Enable	
1						
2						
3						
4						
5						
6						
7						
8						
	Save Undo					



- 1. **Dynamic Routing**: Routing Information Protocol (RIP) will exchange information about destinations for computing routes throughout the network. Please select RIPv2 only if you have different subnet in your network. Otherwise, please select RIPv1 if you need this protocol.
- 2. **Static Routing**: For static routing, you can specify up to 8 routing rules. You can enter the **destination IP address**, **subnet mask**, **gateway**, and **hop** for each routing rule, and then enable or disable the rule by checking or un-checking the Enable checkbox.

Click on "Save" to store your settings or click "Undo" to give up the changes.

3.4.6 System Time

System Time			
Item	Setting		
Time Zone	(GMT-08:00) Pacific Time (US & Canada)		
 Auto-Synchronization 	Enable Time Server (RFC-868): Auto		
Save Undo Sync with Time Server Sync with my PC (Tuesday March 29, 2011 17:47:02)			

- 1. **Time Zone**: Select a time zone where this device locates.
- 2. **Auto-Synchronization**: Check the "Enable" checkbox to enable this function. Besides, you can select a NTP time server to consult UTC time.
- 3. **Sync with Time Server**: Click on the button if you want to set Date and Time by NTP Protocol manually.
- 4. **Sync with my PC**: Click on the button if you want to set Date and Time using PC's Date and Time manually.
- Click on "Save" to store your settings or click "Undo" to give up the changes.



3.4.7 Scheduling

You can set the schedule time to decide which service will be turned on or off.

Schedule Rule [HELP]			
	Item		Setting
Schedul	le	Enable	
Rule#		Rule Name	Action
1			New Add
2			New Add
3			New Add
4			New Add
5			New Add
6			New Add
7			New Add
8			New Add
9			New Add
10			New Add
I	<-Prev	vious Next>> Save Add	d New Rule

- 1. **Schedule**: Check to enable the schedule rule settings.
- Add New Rule: To create a schedule rule, click the "Add New Rule" button. You can edit the Name of Rule, Policy, and set the schedule time (Week day, Start Time, and End Time). The following example configures "ftp time" as everyday 14:10 to 16:20.



•	Schedule Rule Setting [HELP]			
	Item	Setting		
► N	ame of Rule 1			
► P	olicy	Inactivate vexcept the selected	d days and hours below.	
ID	Week Day	Start Time (hh:mm)	End Time (hh:mm)	
1	choose one 💌			
2	choose one 💌			
3	choose one 💌			
4	choose one 💌			
5	choose one 💌			
6	choose one 💌			
7	choose one 💌			
8	choose one 💌			
		Save Undo Back		

3.Installation/Un-installation



3.5 Tool Box

TOOLBOX		
View Log		
- View the system logs.		
Firmware Upgrade		
- Prompt the administrator for a file and upgrade it to this device.		
Backup Setting		
- Save the settings of this device to a file.		
Reset to Default		
- Reset the settings of this device to the default values.		
Reboot		
- Reboot this device.		
Miscellaneous		
- MAC Address for Wake-on-LAN: Let you to power up another network device remotely.		
- Domain Name or IP address for Ping Test: Allow you to configure an IP, and ping the		
device. You can ping a secific IP to test whether it is alive.		



3.5.1 System Info

You can view the System Information and System log, and download/clear the System log, in this page.

Item	Setting	
WAN Type	3G	
Display time	Thu, 31 Dec 2009 16:49:33 -0800	
System Log		
Time	Log	
Dec 31 16:30:59	commander: NO Enter Hostname	
Dec 31 16:31:00	commander: NO Enter Hostname	
Dec 31 16:31:01	commander: NO Enter Hostname	
Dec 31 16:31:02	commander: NO Enter Hostname	
Dec 31 16:31:04	commander: NO Enter Hostname	
Dec 31 16:31:05	commander: NO Enter Hostname	
Dec 31 16:31:06	commander: NO Enter Hostname	
Dec 31 16:31:07	commander: NO Enter Hostname	
Dec 31 16:31:08	commander: NO Enter Hostname	
Dec 31 16:31:09	commander: NO Enter Hostname	
Dec 31 16:31:10	commander: NO Enter Hostname	
Dec 31 16:31:11	commander: NO Enter Hostname	
Dec 31 16:31:13	commander: NO Enter Hostname	
Dec 31 16:31:14	commander: NO Enter Hostname	
Dec 31 16:31:15	commander: NO Enter Hostname	



3.5.2 Firmware Upgrade

Firmware Upgrade		
Firmware Filename		
Browse		
Current firmware version is R1.00e01.		
Note! Do not interrupt the process or power off the unit when it is being upgraded.		
When the process is done successfully, the unit will be restarted automatically.		
Accept unofficial firmware.		
Upgrade Cancel		

You can upgrade firmware by clicking "Upgrade" button.

3.5.3 Backup Setting

	0% of config.bin from 192.168.1.254 Completed 📃 📃		
	File Download		
	Do you want to save this file, or find a program online to open it?		
	Name: config.bin Type: Unknown File Type, 1.05KB	ו	
	From: 192.168.1.254]	
-	While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not find a program to open this file or save this file. <u>What's the risk?</u>		

You can backup your settings by clicking the "**Backup Setting**" function item and save it as a bin file. Once you want to restore these settings, please click Firmware Upgrade button and use the bin file you saved.



3.5.4 Reset to Default

Message	e from webpage	×
?	Reset all settings to factory defa	ault?
0	OK Cancel	

You can also reset this device to factory default settings by clicking the **Reset to default** function item.

3.5.5 Reboot



You can also reboot this device by clicking the **Reboot** function item.

3.5.6 Miscellaneous

Miscellaneous Items	
Item	Setting
MAC Address for Wake-on-LAN	Wake up
Domain Name or IP address for Ping Test	Ping
Save Undo	

1. **Domain Name or IP address for Ping Test**: Allow you to configure an IP, and ping the device. You can ping a specific IP to test whether it is alive.



Troubleshooting

Troubleshooting

4

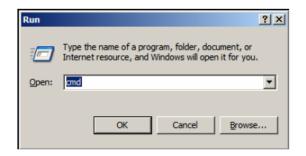
This Chapter provides solutions to problems for the installation and operation of the Air3GII. You can refer to the following if you are having problems.

1 Why can't I configure the router even the cable is plugged and the LED is lit?

Do a Ping test to make sure that the WiFi ComboNote: It is recommended that you use anRouter is responding.Ethernet connection to configure it.

Go to Start > Run.

1. Type **cmd**.



- 2. Press OK.
- 3. Type **ipconfig** to get the IP of default gateway.
- 4. Type "**ping 192.168.123.254**". Assure that you ping the correct IP Address assigned to the Air3GII. It will show four replies if you ping correctly.



Pinging 192.168.1.254 with 32 bytes of data:

Reply from 192.168.1.254: bytes=32 time<1ms TTL=64 Reply from 192.168.1.254: bytes=32 time<1ms TTL=64 Reply from 192.168.1.254: bytes=32 time<1ms TTL=64 Reply from 192.168.1.254: bytes=32 time<1ms TTL=64

Ensure that your Ethernet Adapter is working, and that all network drivers are installed properly. Network adapter names will vary depending on your specific adapter. The installation steps listed below are applicable for all network adapters.

- 1. Go to Start > Right click on "My Computer" > Properties.
- 2. Select the Hardware Tab.
- 3. Click Device Manager.
- 4. Double-click on "Network Adapters".
- 5. Right-click on Wireless Card bus Adapter or your specific network adapter.
- 6. Select **Properties** to ensure that all drivers are installed properly.
- 7. Look under **Device Status** to see if the device is working properly.
- 8. Click "**OK**".
- 9.

2 What can I do if my Ethernet connection does not work properly?

- A. Make sure the RJ45 cable connect with the router.
- B. Ensure that the setting on your Network Interface Card adapter is "Enabled".
- C. If settings are correct, ensure that you are not using a crossover Ethernet cable, not all Network Interface Cards are MDI/MDIX compatible, and use a patch cable is recommended.
- D. If the connection still doesn't work properly, then you can reset it to default.

3 Problems with 3G connection?

A.What can I do if the 3G connection is failed by Auto detection?

Maybe the device can't recognize your ISP automatically. Please select "Manual"

mode, and filling in dial-up settings manually.

B.What can I do if my country and ISP are not in the list?

Please choose "Others" item from the list, and filling in dial-up settings manually.

Air Live

C.What can I do if my 3G connection is failed even the dongle is plugged?

Please check the following items:

- I. Make sure you have inserted a validated SIM card in the 3G data card, and the subscription from ISP is still available
- II. If you activate PIN code check feature in SIM card, making sure the PIN code you fill in dial-up page is correct
- III. Checking with your ISP to see all dial-up settings are correct
- IV. Make sure 3G signal from your ISP is available in your environment
- D. What can I do if my router can't recognize my 3G data card even it is plugged? There might be compatibility issue with some certain 3G cards. Please check the latest compatibility list to see if your 3G card is already supported.

E. What should I insert in APN, PIN Code, Account, Password, Primary DNS, and Secondary DNS?

The device will show this information after you choose country and Telcom. You can also check these values with your ISP.

F. Which 3G network should I select?

It depends on what service your ISP provide. Please check your ISP to know this information.

G. Why my 3G connection is keep dropping?

Please check 3G signal strength from your ISP in your environment is above middle level.

4 Something wrong with the wireless connection?

A. Can't setup a wireless connection?

- I. Ensure that the SSID and the encryption settings are exactly the same to the Clients.
- II. Move the Air3GII and the wireless client into the same room, and then test the wireless connection.



- III. Disable all security settings such as **WEP**, and **MAC Address Control**.
- IV. Turn off the Air3GII and the client, then restart it and then turn on the client again.
- V. Ensure that the LEDs are indicating normally. If no, make sure that the AC power and Ethernet cables are firmly connected.
- VI. Ensure that the IP Address, subnet mask, gateway and DNS settings are correctly entered for the network.
- VII. If you are using other wireless device, home security systems or ceiling fans, lights in your home, your wireless connection may degrade dramatically. Keep your product away from electrical devices that generate RF noise such as microwaves, monitors, electric motors...

B. What can I do if my wireless client can not access the Internet?

- I. Out of range: Put the router closer to your client.
- II. Wrong SSID or Encryption Key: Check the SSID or Encryption setting.
- III. Connect with wrong AP: Ensure that the client is connected with the correct Access Point.
 - i. Right-click on the Local Area Connection icon in the taskbar.
 - ii. Select **View Available Wireless Networks in Wireless Configure**. Ensure you have selected the correct available network.
 - iii. Reset the Air3GII to default setting

C. Why does my wireless connection keep dropping?

- I. Antenna Orientation.
 - i. Try different antenna orientations for the Air3GII.
 - ii. Try to keep the antenna at least 6 inches away from the wall or other objects.
- II. Try changing the channel on the Air3GII, and your Access Point and Wireless adapter to a different channel to avoid interference.
- III. Keep your product away from electrical devices that generate RF noise, like microwaves, monitors, electric motors, etc.



5 What to do if I forgot my encryption key?

- 1. Go back to advanced setting to set up your Encryption key again.
- 2. Reset the Air3GII to default setting

6 How to reset to default?

- 1. Ensure the Air3GII is powered on
- 2. Find the **Reset** button on the right side
- 3. Press the **Reset** button for 8 seconds and then release.
- 4. After the Air3GII reboots, it has back to the factory **default** settings.



Appendix A. Spec Summary Table

3G Access	USB port
Standards	IEEE 802.11b/g
	IEEE 802.3
Wireless	IEEE 802.3u
Standard	IEEE 802.11 B\G\N
Otaridard	11B: 11, 5.5, 2, 1 Mbps
Data Rate	11G: 54, 48, 36, 24, 18, 12, 9, and 6 Mbps
	11N: Max physical rate up to 300Mbps
Frequency	2.4-2.4835GHz or 2.412-2.462GHz
Range	Indoors approx. 30-50 meters;
Coverage	Outdoors up to 80-100 meters
	1-11 for N. America (FCC);1-11 for Canada (DOC)
# of Channels	1-13 Europe (Except Spain and France) (ETSI)
	1-14 Japan (TELEC); 1-11 for Taiwan (NCC)
Security	64-bit and 128-bit WEP Encryption; WPA encryption
Antenna	External 2or2.35dBi Antenna.
	IP Filtering
Firewall	NAT (Network Address Translation) with VPN Pass
	through MAC Filtering
Supported WAN	3G,Static IP, Dynamic IP, PPPoE,PPTP,L2TP
type	
Connection	Connect-on-demand, Auto-Disconnect
Scheme	
NAT function	Class C ;One-to-Many; Max 253 Users; Virtual Server; DMZ Host
VPN	PPTP, L2TP and IPSec Pass Through
Config.&	Web-Based IE, Navigator browser and SNMP
Management	
IP assignment	DHCP Server and Client
Working	Temperature: 0~40°C, Humidity 10%~90%
Environment	non-condensing
OS supported	Windows 95/98/ME/NT/2000/XP; Linux
Power	Full range(100-240V), Switching 5V 1.2A



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- 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:

 The 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.

2. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

3. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

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FCC Radiation Exposure Statement:

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