

# Wireless 108Mbps Multi-Function Access Point A02-WAP-54G



# MANUAL A02-WAP-54G(V1.1) \_ME01

Where solutions begin



Where solutions begin



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#### Wireless LAN, Health and Authorization for use

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments for example:

·On board of airplanes, or

·In an explosive environment, or

In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

#### **Regulatory Information/disclaimers**

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.



#### CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

#### CE in which Countries where the product may be used freely:

Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.

France: except the channel 10 through 13, law prohibits the use of other channels.

#### Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the
- receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference, and

2) This device must accept any interference received, including interference that may cause undesired operation.



## **CHAPTER 1: Introduction**

Congratulations on your purchase of this IEEE 802.11g Wireless LAN Access Point. This manual helps to features the innovating wireless technology that can help you build a wireless network easily! This manual contains detailed instructions in operation of this product. Please keep this manual for future reference.

With a WLAN (IEEE 802.11g) Access Point, a mobile computer can share data with another mobile computer in a wireless way. Easy-to-use utilities are bundled with WLAN Access Point for configuration and monitoring purposes.

WLAN networking can wirelessly transmit and receive data, minimizing the need for wired connections, at a speed of up to Fifty-four megabit per second. With WLAN networking, you can locate your PC wherever you want without wires and cables.

WLAN networking provides users with an access to real-time information anywhere in their organization. The mobility provides productivity and service, which are not available under wired networks.

### 1.1 An Overview of the del Wireless 108Mbps Multi-Function Access Point

The device for a total freedom of movement without losing the connection. Easy to be installed and fast and flexible, with Wireless Multi-Function Access Point there is no more obligation for a fixed working place: you can easily work or navigate for fun from your own garden or in different rooms of your office, always in wireless connection.

The Roaming function gives you a complete freedom of movement and two or more Wireless Multi-Function Access Point can serve wireless also large headquarters.

A pair of Wireless Multi-Function APs operating under Bridge mode to act as the bridge that connect two Ethernet networks or Ethernet enabled clients together. Repeat Mode is able to extend the effective range and coverage of the wireless network. Last but not least the AP will be a wireless Ethernet adapter transforms any Ethernet-enabled devices to have the wireless function.

Thanks to advanced security functions which are integrated and thanks to the troughput of the protocol IEE802.11G you are going to have a fast and flexible wireless net, hacker safe.

The chipsets fully support Wi-Fi Protected Access (WPA/WPA2) and the IEEE802.11i draft security standards in hardware and high-speed encryption engines with no performance degradation.



Last, but not least, this product implements Atheros Super G<sup>™</sup> (available for devices with chipset Atheros) capabilities to deliver 108 Mbps raw data rates for 802.11g wireless LANs.

### 1.2 Package Contents

Unpack the package and check all the items carefully. If any item contained is damaged or missing, please contact your local dealer as soon as possible. Also, keep the box and packing materials in case you need to ship the unit in the future. The package should contain the following items:

- Wireless 108Mbps Multi-Function Access Point
- 2 dBi Antenna
- CDRom with online manual
- Quick Start Guide (English, French, Italian)
- AC/DC power adapter (5 V, 1A)

### **1.3 Wireless Multi-Function Access Point Features**

Wireless Multi-Function Access Poin provides the following features:

- **IEEE 802.11g** and **IEEE 802.11b**: With built-in 802.11g access point for extending the communication media to WLAN while providing the WEP and WPA for securing your wireless networks.
- **SuperG<sup>™</sup>:** This product implements Atheros Super G<sup>™</sup> (available for devices with chipset Atheros) capabilities to deliver 108 Mbps raw data rates for 802.11g wireless LANs.
- Wi-Fi Protected Access (WPA) and WEP encryption: Thanks to advanced security functions which are integrated and thanks to the troughput of the protocol IEE802.11G you are going to have a fast and flexible wireless net, hacker safe. The chipsets fully support Wi-Fi Protected Access (WPA) and the IEEE 802.11i draft security standards in hardware and high-speed encryption engines with no performance degradation.
- Wireless Bridge: A pair of Wireless Multi-Function APs operating under Bridge mode to act as the bridge that connect two Ethernet networks or Ethernet enabled clients together.
- **Repeater:** Repeat Mode is able to extend the effective range and coverage of the wireless network.
- **Client Wireless:** the AP will be a wireless Ethernet adapter transforms any Ethernet-enabled devices to have the wireless function.



- **1 Antenna:** 1 x 2 dBi Dipole detachable Antenna1 (SMA)
- **1 port Fast Ethernet:** A fast Ethernet 10/100Mbps port is supported in the LAN site and automatic switching between MDI and MDI-X for 10Base-T and 100Base-TX ports is supported. An Ethernet straight or cross-over cable can be used directly, this fast Ethernet switch will detect it automatically.
- Mac Filtering (ACL): Access Control function allows clients whose MAC addresses in the list will be able to connect to this Access Point.
- Web based GUI: supports web based GUI for configuration and management. It is user-friendly with an on-line help, providing necessary information and assist user timing. It also supports remote management capability for remote users to configure and manage this product.
- **Firmware Upgrade:** the device can be upgraded to the latest firmware through the WEB based GUI.

### **1.4 System Requirements**

Before installing the device, your PC should meet the following:

- Intel® Pentium®III 600Mhz or compatible processor with TCP/IP stack
- linternet Explorer V6.0 on Netscape V6.0
- CDRom

### 1.5 Setup

The setup of the Wireless Access Point can be performed using the following steps:

- Visually inspect the Ethernet RJ45 port connector and make sure that it is fully plugged in to the system's Ethernet switch/hub port.
- Fix the direction of the antennas. Try to place the AP in a position that can best cover your wireless network. Normally, the higher you place the antenna, the better the performance will be. The antenna's position enhances the receiving sensitivity.
- Visually inspect if the Power Adapter was fully plugged to the device power jack.



### 1.6 Location

Locate an optimum location for the Wireless LAN Access Point (AP). The best place for your AP is usually the center of your wireless network, with line of sight to all of your mobile stations.

Try to place the AP in a position that can best cover your wireless network. Normally, the higher you place the antenna, the better the performance will be. The antenna's position enhances the receiving sensitivity.



## **CHAPTER 2: Using Wireless Access Point**

### 2.1 Cautions for using the Wireless Access Point

- Do not place the Wireless Access Point under high humidity and high temperature.
- Do not use the same power source for Wireless Access Point with other equipment.
- Do not open or repair the case yourself. If the Wireless Access Point is too hot, turn off the power immediately and have a qualified serviceman repair it.
- Place the Wireless Access Point on a stable surface.
- Only use the power adapter that comes with the package.
- Do NOT upgrade firmware on any Atlantis Land product over a wireless connection. Failure of the device may result. Use only hard-wired network connections.



The table below shows the LED Indicator of the Wireless Access Point.

LED	Meaning
POWER	This indicator lights green when the Access Point receives power. Otherwise, it turns off.
WLAN	The indicator blinking green whiles the wireless LAN activity.
LAN	The indicator lights green when the LAN port is connected to a Ethernet network successful. Otherwise, the indicator blinking green while transmitting or receiving data on the Ethernet network.

### 2.3 The Rear Ports

The figure below shows the rear panel of the Wireless Access Point.



Port	Meaning
ANTENNA	One external dipole antenna.
RESET	The Reset function is to reset the setting back to factory default setting, once you press the "RESET" button more than 10 seconds.
LAN	Ethernet port with 10/100Mbps Fast Ethernet connections, connect this port to switch/hub.
POWER	Connect the Power Adapter DC plug to the AP's power jack.



#### Connect to the Switch/Hub

- Plug in one end of the RJ45 network cable to the Switch/Hub port
- Plug in the other end of the RJ45 network cable to the Wireless Access Point

#### Check the installation

The LEDs of the Access Point are clearly visible and the status of the network link can be seen instantly:

- With the power source on, once the device is connected, the Power, LAN and WLAN port LEDs will light up indicating a normal status.
- If the LAN Port's Link indicator does not light up then check the RJ-45 cable if it is firmly feed to the RJ45 port, while the LAN is link up to the Switch/Hub, the LAN port's LED will light up.



## **CHAPTER 3: Configuration**

The Wireless Access Point has a Web GUI interface for the configuration. The AP can be configured through the Web Browser. A network manager can manage, control and monitor the AP from the local LAN. This section indicates how to configure the AP to enable its functions.

### 3.1 Before Configuration

This section describes the configuration required by LAN-attached PCs that communicate with the Wireless Access Point, either to configure the device or for network access. These PCs must have an Ethernet interface (or wireless adapter) installed properly, be connected to the Wireless Access Point either directly or through an external repeater hub or by wireless, and have TCP/IP installed and configured with a fixed IP address that must be in the same subnet of the Wireless Access Point. The default IP address of the Wireless Access Point is 192.168.1.1 and subnet mask is 255.255.255.0.

Please follow the steps below for PC's network environment installation. First of all, please check your PC's network components. The TCP/IP protocol stack and Ethernet network adapter must be installed. If not, please refer to MS Windows related manuals.



Any TCP/IP capable workstation can be used to communicate with or through the Wireless Access Point to configure other types of workstations, please consult the manufacturer's documentation.



### 3.1.1 Windows 95/98/ME

Network		? ×
Configuration) Identifica	ation LAccess Control	1
		· · · · · · · · · · · · · · · · · · ·
The following <u>n</u> etwork	components are instal	led:
💷 NE 2000 Compatil	ble	
👔 NetBEUI -> Dial-U	Jp Adapter	
🐺 NetBEUI -> NE20	)00 Compatible	
TCP/IP -> Dial-U	p Adapter	
TCP/IP -> NE200	0 Compatible	
File and printer sh	aring for Microsoft Net	works
<u>A</u> dd	R <u>e</u> move	P <u>r</u> operties
Primary Network Logo	on:	
Client for Microsoft N	etworks	<b>•</b>
Eile and Print Sha	ring	
Description TCP/IP is the protocol you use to connect to the Internet and wide-area networks.		
	C	IK Cancel

TCP/IP Properties		? ×
Bindings DNS Configuration   Gate	Advanced eway   WINS Confi	NetBIOS guration IP Address
An IP address can be a If your network does no your network administra the space below.	utomatically assigned automatically assign tor for an address, and	d to this computer. n IP addresses, ask nd then type it in
2 <sup>©</sup> Obtain an IP addre	ess automatically	
C Specify an IP add	ess:	
[P Address:		
Sybnet Mask:		
	OK	Cancel

- Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and choose the Configuration tab.
- Select TCP / IP -> NE2000 Compatible, or the name of any Network Interface Card (NIC) in your PC.
- 3. Click Properties.

 Select the IP Address tab. In this page, click the Specify an IP address radio button (EG IP=192.168.1.2 and subnet Mask=255.255.255.0).

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## 3.1.2 Windows NT4.0

twork dentification Se	rvices Protoc	ols Adapters Bindi	ngs
Network Protoco	ols:	10. SV	
Fine Ret Ben Pr Fine Ret Ben Pro Fine Ret Ben Pro	otocol K/SPX Compatil t8IOS tocol	ble Transport	
<u>A</u> dd	<u>R</u> emove	Properties	<u>U</u> pdate
Description: — Transport Conl area network p diverse interco	rol Protocol/Int protocol that pro nnected netwo	ernet Protocol. The de wides communication rks.	efault wide across
		OK	Cancel

Microsoft TCP/IP Properties	? ×
IP Address DNS WINS Address Routing	
An IP address can be automatically assigned to this by a DHCP server. If your network does not have ask your network administrator for an address, and the space below.	s network card a DHCP server, then type it in
Adapter:	
(your network adapter)	
Obtain an IP address from a DHCP server	
C Specify an IP address	
IP Address:	
Subnet Mask:	
Default <u>G</u> ateway:	
	Advanced
OK Cancel	Apply

- Go to Start / Settings / Control Panel. In the Control Panel, doubleclick on Network and choose the Protocols tab.
- 2. Select TCP/IP Protocol and click Properties.

3. Select the IP Address tab. In this page, click the Specify an IP address radio button (EG IP=192.168.1.2 and subnet Mask=255.255.255.0).



### 3.1.3 Windows 2000

#### Network and Dial-up Connections - 🗆 × File Edit View Favorites Tools Advanced Help 🗢 Back 🔹 🤿 👻 🔯 Search 🖓 Folders 🎯 History 🎼 >> Address 🔃 Network and Dial-up Connections ▼ @Go œ. **B** Make New ocal Area Network and Dial-Connection Ionnection up Connections 4. Local Area Connection Type: LAN Connection 5. -Status: Enabled Local Area Connection Status ? X

Status: Duration: Speed: Activity	Connected 05:54:27 10.0 Mbps
Duration: Speed: Activity	05:54:27 10.0 Mbps
Speed: Activity	10.0 Mbps
Activity	
Sent — 🕮 L 🚣 Packets: 300	Received
Properties Disable	

- Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and Dial-up Connections.
- 2. Double-click LAN Area Connection.
- 3. In the LAN Area Connection Status window, click Properties.
- 4. Select Internet Protocol (TCP/IP) and click Properties.
- 5. Select Use the Following IP Address (EG IP=192.168.1.2 and subnet Mask=255.255.255.0).
- 6. Click "OK" to finish the configuration.

htain an IP address automaticallu	
orain an le andress auromatically	
se the following IP address:	
idress:	_
net mask:	
ult gateway:	_
btain DNS server address automaticallu	
se the following DNS server addresses:	
erred DNS server.	
nate DNS server:	
se the following DNS server addresses: erred DNS server: nate DNS server:	



### 3.1.4 Windows XP

🕹 Local Area Con	nection Status	? 🔀	
General Support			
Connection			
Status:		Connected	
Duration:		00:05:34	
Speed:		100.0 Mbps	
Activity	Sent 🔊	- Received	
Bytes:	1,403	1,749	
Properties	Disable		
		Close	
Internet Protocol (T	CP/IP) Properties	? 🛽	
General Alternate Con	figuration		
You can get IP settings this capability. Otherwis the appropriate IP setti	s assigned automatically if you se, you need to ask your netw ngs.	ur network supports vork administrator for	
Obtain an IP addr	ress automatically		
Use the following	IP address:		
IP address:			
Subnet mask:			
Default gateway:			
Obtain DNS serve	Obtain DNS server address automatically		
O Use the following	DNS server addresses:		
Preferred DNS serve	er:		
Alternate DNS serve	er:		
		Advanced	

- 1. Go to Start / Control Panel (in Classic View). In the Control Panel, doubleclick on Network Connections.
- 2. Double-click Local Area Connection
- **3.** In the LAN Area Connection Status window, click Properties.
- 4. Select Internet Protocol (TCP/IP) and click Properties.
- 5. Select the Use the following IP address

radio buttons (EG IP=192.168.1.2 and subnet

Mask=255.255.255.0).

6. Click "OK" to finish the configuration.



### 3.1.5 Windows Vista

- 1. Go to Start / Control Panel (in Classic View). In the Control Panel, double-click on Network and Sharing Center.
- 2. Click Manage network connections then double click on Local Area Connection.
- 3. Click **Continue** (Windows needs your permission to continue).
- 4. Select Internet Protocol Version 4(TCP/IPv4) and click Properties
- 5. Select the Use the following IP address radio buttons (EG IP=192.168.1.2 and subnet Mask=255.255.255.0).
- 6. Click **OK** to finish the configuration

### 3.2 Default Settings

Before configuring the Wireless AP through WLAN, make sure that the SSID, Channel and the WEP was set properly. The default setting of the Wireless AP that you will use:

- User: admin
- Password: admin
- IP Address: **192.168.1.1**
- Subnet Mask: 255.255.255.0
- Wep Encryption: disable
- SSSID: default
- Channel:6

### 3.2.1 Password

When there is a screen needs to enter the Network password, it means that there is a password settle, type in the password you entered before.

### 3.2.2 LAN WLAN

The parameters of LAN and WLAN ports are pre-set in the factory. The default values are shown below.

LAN		WLAN
IP address	192.168.1.1	Channel=6
Subnet Mask	255.255.255.0	SSID=default
		Encryption=none



### 3.3 Accessing the Access Point Web Configurator

Before you configure this device, note that when the AP is configured through an Ethernet connection, make sure the manager PC must be set on same the **IP network**. For example, when the default network address of the default IP address of the AP is **192.168.1.1**, then the manager PC should be set at 192.168.1.x (where x is a number between 2 and 254), and the default subnet mask is 255.255.255.0.

Open Internet Explorer 5.0 or above Web browser.

Enter IP address *http://192.168.1.1* (the factory-default IP address setting) to the address location.



When there is a screen needs to enter the User name and Password, both of the default Username and Password is "**admin**". Click **OK**.



The screen will show the station summary of the AP when you login to the AP.



### 3.3.1 Navigating the Access Point Web Configurator

The screen will show the status of the AP when you login to the AP. There are seven main functions included in the top side of the main screen:

- Wizard •
- Status •
- **Basic Setting** •
- **IP Setting** •
- **Advanced Setting** •
- **Security** •
- Tools •

Point the selections in the top side of the menu screen.

	w	/ireless Lan /	Access P	oint	08 <sub>Mb</sub>	D5
	Wizard   Status	Basic Setting   IP Set	etting   Advan	ced Setting	Security   Too	ls
Status	Firmware Version	: 1.01		Date :	Fri, 13 Apr 20	07
otatas	LAN	MAC:	00-19-5b-4	43-29-50		
		IP Address:	192.168.1.	1		
		Subnet Mask:	255.255.25	55.0		
		Gateway:	192.168.1	.254		
		Send:	59			
		Receive:	449			
	Wireless					
		SSID: A02-	AP2-W54M			
		Encryption :	128 bits			
		Channel:	6			
		Send:	17			
		Receive:	3518			
		Viewlog				
		-				
		Connection Time		Wireless S	tation	
		May/17/2007 10:53	3:07	00:0e:e8:	f7:07:70	
		A02-WAP-540	3			Pag. 15

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### 3.4 Wizard

#### Quick Wizard Setup

The following screen will appear. Please click **Next** to continue. You also can go back to modify the setting by clicking **Back** (when available).

### Setup Wizard

Welcome to the **108Mbps** Access Point Setup Wizard. The Wizard will direct you through these four quick steps. Start by clicking on **Next.** 

Step 1. Set your new password

Step 2. Set the SSID and Channel

Step 3. Set Encryption

Step 4. Restart





#### Step 1: Set Password

You can change the password as you like and then click Next to continue.

## Setup Wizard

#### Set Password

You may want to change the Administrator password of this Access Point to prevent authorized modification to the configuration settings. Enter your new password in the following text fields. Click Next to continue with setup or Exit to guit setup wizard.

Password

Verify Password

••	••	•	•	• •	•	•	•	•	•	•	•	
••	••	•	•	• •	•	•	•	•	•	•	•	





#### Step 2: Set Wireless LAN connection

Click **enable** to enable wireless LAN. If you enable the wireless LAN, type the SSID in the text box and select a communications channel. The SSID and channel must be the same as wireless devices attempting communication to the Access Point. Select a channel number and click on **Next**.



Enter the SSID of the wireless network, and select the frequency channel that this Access Point will operate in.

Click Next to continue setup, or Exit to quit setup wizard.





Channel

6 💌





#### Step 3: Set WEP Encryption

If user wants to enable WEP, please click **Enabled**. Then, select the key size of WEP encryption and enter the key value in the **key** text box. Please click **Next** to continue.



You may enable WEP security for data encryption by selecting Enabled. Select one of the WEP encryption key size and enter the value of the key in the text fields below.

Click Next to continue with setup, or Exit to quit setup wizard.

WEP	Inabled O Disabled		
WEP encryption	128Bits 🗙		
Key	000000000000000000000000000000000000000		
	Input 26 HEX characters(HEX is 0~9, A~F or a~f)		





#### Step 4: Restart

The Setup wizard is now completed. The new settings will be effective after the Wireless 108Mbps Access Pointrestarted. Please click **Restart** (then **Close**) to reboot the Access Point. If you do not want to make any changes, please click **exit** to quit without any changes.



### 3.5 Status

#### This page as below shows the following information.

Queen.	The second			INR
	W	ireless Lan	Access Point	Mops
	Wizard   <mark>Status</mark>	Basic Setting   IP	Setting   Advanced Sett	ing   Security   Tools
Status	Firmware Version	: 1.01	Date :	Fri, 13 Apr 2007
Status	LAN	MAC:	00-19-5b-43-29-5	50
		IP Address:	192.168.1.1	
		Subnet Mask:	255.255.255.0	
		Gateway:	192.168.1.254	
		Send:	59	
		Receive:	449	
	Wireless			
		SSID: A02	-AP2-W54M	
		Encryption :	128 bits	
		Channel:	6	
		Send:	17	
		Receive:	3518	
		Viewlog		
		-		
		Connection Time	Wirele	ss Station
		May/17/2007 10:5	53:07 00:0e:	e8:f7:07:70

- Firmware Version: Shows the current firmware version and released date code.
- LAN: Shows the Mac address, IP address (default: 192.168.1.1), Subnet Mask, Gateway Address. The current LAN traffic calculated in terms of number of packets sent and received by AP through wired connection is also displayed.
- Wireless: Shows the Mac address, current SSID, the status of Encryption Function (Enable or Disable), the current using channel. The current wireless



traffic calculated in terms of number of packets sent and received by AP through wireless communication is also displayed.

 View Log: Once clicked, the page will change to login page. The login page records every event and the time that it happens.

**NOTE:** User may clear the entries recorded in the log by clicking the **Clear Log** button, and refresh the screen to show the latest log entries by clicking the **Refresh** button.

### 3.6 Basic Setting

This is the page allow user to change the access point settings.

	Wireless Lan Access Point DBMDps   Wizard   Status   Basic Setting   IP Setting   Advanced Setting   Security   Tools
Basic o	AP Name WirelessAccessPoint
Setting	SSID A02-WAP-54G Channel 6 ♥ (Domain: USA ) Extended Parage ○ Enabled ◎ Disabled
	Authentication WPA
	PSK / EAP  Passphrase Passphrase
	Confirmed Passphrase Aprly Cancel Help
	* Enabling Extended Range will automatically disable "Super G with Static Turbo" and set "Tx Rates" auto.

- AP Name: The name of the AP, which can be used to identify the Access Point among the all the Access Points in the wireless network.
- SSID: Service Set Identifier, which is a unique name shared among all clients and nodes in a wireless network. The SSID must be identical for each clients and nodes in the wireless network.



- Channel: The channel that AP will operate in. User can select the channel range from 1 to 11 for North America (FCC) domain, 1 to 13 for European (ETSI) domain and 1 to 14 for Japanese domain.
- Extended Range: When you enable this function, AP will reduce data rate with a long distance.
- Authentication: Please check next section.

The range of radio frequencies used by IEEE 802.11g wireless devices is called a "channel". Channels available depend on your geographical area. You may have a choice of channels (for your region) so you should use a different channel than an adjacent AP (access point) to reduce interference. Interference occurs when radio signals from different access points overlap causing interference and degrading performance.



Adjacent channels partially overlap however. To avoid interference due to overlap, your AP should be on a channel at least five channels away from a channel that an adjacent AP is using. For example, if your region has 11 channels and an adjacent AP is using channel 1, then you need to select a channel between 6 or 11.



### 3.6.1 Authentication

**Authentication Type:** The authentication type default is set to Open system. There are 4 options: Disable, WEP, WPA and WPA2. All the nodes and hosts on the network must use the same authentication type.

 WEP Key: To disable WEP security, click on the "Disable" option. To enable WEP security, there are 2 types to select – 64bits and 128 bits. When it is selected, the key value must be entered in ASCII or HEX format.

Authentication WEP 💌
Key Type 💿 Open System 🔘 Shared Key
WEP Key 🔘 64bits 💿 128bits
Mode ASCII 🗸
1.
○ 2.
○ 3.
○ 4.
Aprly Cancel Help

 $^{\ast}$  Enabling Extended Range will automatically disable "Super G with Static Turbo" and set "Tx Rates" auto.

**Note:** When the WEP security is enabled, all the wireless clients that wish to connect to the Access Point must also have WEP enabled with the identical WEP Key value entered.



WEP is not completely secure. If possible please use WPA-PSK.

 WPA-PSK / WPA2-PSK: If WPA-PSK or WPA2-PSK is selected, user needs to set the key in the passphrase field as the below screen. The key length should be 8 characters at least.

	Wireless	108Mbps	Multi-Func	tion Acce	ess Poin	t
Authentication WPA	~					
PSK / EAP 💿 PS	К 🔿 ЕАР					
Passphrase	•••••					
Confirmed Passphrase	•••••					
Apply	Cancel	Help				
* Enal	oling Extended	Range will au	tomatically disa	ble "Super G v	with Static	

• WPA / WPA2(EAP): If WPA or WPA2 is selected, the below screen is shown. Please set the length of the encryption key and the parameters for the RADIUS server.

Turbo" and set "Tx Rates" auto.

- 1. **RADIUS Server 1:** Enter the IP address of and the Port used by the Primary Radius Server, enter the Shared Secret, which is used by the Radius Server.
- 2. RADIUS Server 2(optional): Enter the IP address of and the Port used by the Secondary Radius Server, enter the Shared Secret, which is used by the Radius Server.

Authentication WPA					
PSK / EAP 🔘 PSI	K 💿 EAP				
RADIUS Server 1	ІР	0.0.0.0			
	Port	1812			
	Shared Secret				
RADIUS Server 2 (optional)	IP	0.0.0.0			
	Port	1812			
	Shared Secret				
Apply Cancel Help					
* Enabling Extended Range will automatically disable "Super G with Static					

- Turbo" and set "Tx Rates" auto.
- **Apply:** For the changes made to any of the items above to be effective, click "Apply". The new settings are now been saved to Access Point and will be effective once the Access Point restarts.



The default IP address of this access point is 192.168.1.1 with the subnet mask of 255.255.255.0. User can type in other values for IP Address, Subnet Mask and Gateway and click "**Apply**" button for the changes to be effective.

User can also set the Access Point to obtain the IP from a DHCP server, but it is not recommended. Select the option "Obtain IP Automatically" and click "**Apply**" button for the changes to be effective.

- DHCP Server: It is not recommended to enable the DHCP Server if user has a DHCP server running in LAN network because it probably will cause possible the conflict of IP assignment. Enable the DHCP server function by selecting the option "On", and enter the IP range.
- DNS Server: Type up to DNS IP address in the text boxes. Your ISP will provide you with this information.

Click "**Apply**" for the changes to be effective.



### 3.8 Advanced Setting

This page contains configurations for advanced users, which the change reflects the wireless performance and operating modes.

	Wireless Lan Access Point 103 Mbps
	Wizard   Status   Basic Setting   IP Setting   Advanced Setting   Security   Tools
Advanced	AP Mode  AP Site Survey
Setting	O AP Client Remote AP SSID
occurry	O Wireless Bridge Remote Bridge MAC
	O Multiple Bridge
	O Repeat Mode Remote AP SSID
	Beacon Interval 100 (msec, range:20~1000, default:100)
	RTS Threshold 2346 (range: 256~2346, default:2346)
	Fragmentation         2346         (range: 1500~2346, default:2346, even number only)
	DTIM Interval 1 (range: 1~255, default:1)
	SSID broadcast ③ Enable 〇 Disable
	TX Rates Auto 💙 (Mbps)
	CTS mode 🔿 None 🔿 Always 💿 Auto
	WDS  Enable O Disable (MAC clone) O Disable (proxy mode)
	11g Only Mode 🔘 Enable 💿 Disable
	Super G Mode Disabled
	Antenna transmit power
	Aging Interval 86400 seconds
	Apply Cancel Help

- Beacon Interval: To set the period of time in milliseconds that AP sends out a beacon. Default is 100 milliseconds.
- RTS Threshold: To set the size of RTS/CTS packet size. Default is 2346 bytes.
- Fragmentation Threshold: To set the number of bytes used for the fragmentation boundary for directed messages. Default is 2346 bytes.
- **DTIM Interval:** This value indicates the interval of the Delivery Traffic Indication Message (DTIM). A DTIM field is a countdown field informing clients of the next window for listening to broadcast and multicast messages.



When the access point has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM interval value. Access point clients hear the beacons and awaken to receive the broadcast and multicast messages.

- SSID Broadcast: While SSID Broadcast is enabled, all wireless clients will be able to communicate with the access point. For secure purpose, user may want to disable SSID broadcast to allow only those wireless clients with the AP SSID to communicate with the access point.
- **TX Rates:** Select one of the wireless communications transfer rates, measured in megabytes per second, based upon the speed of wireless adapters connected to the WLAN.
- CTS Mode:
  - None: Disable CTS function.
  - Always: Regardless of wireless environment (11b or 11g), platform will always transfer 11b packet.
  - Auto: AP soon detected the wireless environment and decided the transmission packet, either 11b or 11g.
- **11g Only Mode:** To setting the AP operation mode for 802.11g only or 802.11b/802.11g mix mode.
- SuperG Mode: From the drop list, if you like to use Super-GTM to enhance the speed, there are three options on Super-GTM mode: Super G without turbo; Super G with Dynamic turbo and Super G with Static turbo. The turbo mode indicates the combination of two channels to enhance the throughput. Super G without turbo indicates that it is on Super G mode without the channel's combination. Dynamic turbo is able to automatically detect if any 'Super-GTM based' product is available. If no, the connection is via 'normal' G. Static turbo means it will not go back to 'normal' G once it starts.
- Antenna transmit power: Adjust the power of the antenna transmission by selecting from the drop down list for full, half (-3dB), quarter (-6dB), eighth (-9dB) and min.
- Aging Interval: To limited STA connect timing.



### 3.8.1 AP Mode

Configure the AP to Access Point mode; with this mode, WLAN clients can access LAN or other WLAN clients through this AP.



AP Mode: Select Access Point.



### 3.8.2 AP Client Mode

Configure the AP to AP Client mode; the AP will be a wireless Ethernet adapter transforms any Ethernet-enabled devices to have the wireless function.



#### AP Mode: Select AP Client. Click Site Survey.

108Mbps Wireless Lan Access Point Site Survey					
	BSS	SSID	WEP	CHANNEL	
۲	00-18-e7-11-44-72	RB	Yes	1	
$\bigcirc$	00-0e-e8-f7-07-70	A02-AP2-W54M	Yes	6	
$\bigcirc$	00-04-ed-0a-1e-28	wlan-ap	Yes	6	
$\bigcirc$	00-40-f4-e8-ab-bb	default	No	6	
$\bigcirc$	00-03-2f-0f-97-d6	AP0F97D6	No	6	
$\bigcirc$	00-04-e2-ab-75-5c	wireless_rho.otpos.local	Yes	6	
С	onnect Exit				

Chose the correct Wireless network, then click on Connect.



You must make sure that Encryption is set the same as that AP you wish to connect.



## 3.8.3 Wireless Bridge / Multiple Bridge

Configure to the wireless bridge mode; these APs will be a LAN to LAN wireless Ethernet bridge between two separated Ethernet LAN segments.



AP Mode: Select Wireless Bridge.

**Remote Bridge MAC:** Enter the MAC address of the opposite AP here.

Note: These two APs must using same wireless channel setting (SSSID, Encryption, Channel).



You must make sure that the SSID, Encryption and Channel is set the same as that AP you wish to connect.

When Wireless Bridge / Wireless MultiBridge is enable only WEP ecryption is supported.



When there are three APs joined to the WDS group, one of the AP in WDS mode will be the Master, the other two APs will be the Slave, all of the APs in the WDS group must use the same wireless channel and the same security setting, the Master need to fill all the Slave's MAC address in the "Remote Bridge Mac" list, and the Slave need to fill the Master's MAC address in the "Remote Bridge Mac" list.

In this example, LAN-A can communicate with LAN-B and LAN-C, and LAN-B can communicate with LAN-C through the AP-A. All of LANs will be at the same LAN environment coming through LAN-A.





### 3.8.4 Repeat Mode

Configure the AP to Repeater mode; the AP will be a wireless LAN repeater that will be extended the WLAN coverage range.



#### AP Mode: Select Repeat Mode. Click Site Survey.

108Mbps Wireless Lan Access Point Site Survey						
	BSS	SSID	WEP	CHANNEL		
۲	00-18-e7-11-44-72	RB	Yes	1		
$\circ$	00-0e-e8-f7-07-70	A02-AP2-W54M	Yes	6		
$\bigcirc$	00-04-ed-0a-1e-28	wlan-ap	Yes	6		
$\bigcirc$	00-40-f4-e8-ab-bb	default	No	6		
$\bigcirc$	00-03-2f-0f-97-d6	AP0F97D6	No	6		
$\bigcirc$	00-04-e2-ab-75-5c	wireless_rho.otpos.local	Yes	6		
С	onnect Exit					

Chose the correct Wireless network, then click on Connect.



You must make sure that Encryption is set the same as that AP you wish to connect.

When Repeat Mode is enable only WEP ecryption is supported.



### 3.9 Security

This page is where user configures the security features supported by this Access Point.

	Wizard   Status	ireless Lan Act Basic Setting   IP Settin	cess Point DBMbps ag   Advanced Setting   Security   Tools
Security	Password	Administrator ID:	admin
Security		AP Password New:	••••••
		Confirm:	Apply Cancel Help
	MAC Filter 🔘	Enabled 💿 Disable	d
	0	Only <b>deny</b> PCs with M	MAC listed below to access device
	<ul> <li>●</li> <li>1<sup>*</sup></li> </ul>	Only <b>allow</b> PCs with I	MAC listed below to access device
	MAC 1		
	MAC 2		
	MAC 3		
	MAC 4		
	MAC 5		
	MAC 6		
	MAC 8		
	MAC 9		
	MAC 10		
		A	pply Cancel Help

**Password**: Allow user to change the new login password. Here are the necessary steps:

- 1. Enter the new password in the "AP Password New:" field.
- 2. Enter the new password again in the "Confirm" field.
- 3. Click "Apply"

#### A02-WAP-54G



**MAC Filter:** MAC Filter function controls the MAC of the network devices that are listed in this table for access authorization or denial. There have three choices:

- **1.** Disable MAC Filters
- 2. Only **allow** PCs with MAC listed below to access device
- 3. Only **deny** PCs with MAC listed below to access device

The maximum number of MAC addresses that can be stored is 50. User can browse through the MAC address saved by selecting the MAC Filter List. For any changes made in the security page, click "**Apply**" for the changes to be effective.



### 3.10 Tools

Four functions are provided in this page, Backup, Restore Settings, Restore default settings and Firmware Upgrade.

	Wirel	ess Lan Access Point 108Mbps
	Wizard   Status   Basid	c Setting   IP Setting   Advanced Setting   Security   Tools
Tools o	Backup Settings	Backup
	Restore Settings	Sfoglia Restore
	Restore to default	Default
	Firmware Upgrade	Current Firmware Version: 1.01 Firmware Date: Fri, 13 Apr 2007
		Sfoglia Upgrade Help
	SNMP	Inabled O Disabled
	System Location	AP
	System Contact	AP
	Community	public
	Trap Receiver 1	0.0.0.0
	2	0.0.0.0
	3	0.0.0.0
		Apply Cancel Help

- Save Settings to Local Hard Drive: Click on "Save Settings to Local Hard Drive" button, which will open a FileSave Dialog box, where user gets to save all the current settings and configurations to a file.
- Restore Settings: Click on the "Browse" button to open a FileOpen Dialog box, where user gets to select the file, which saves previous settings and configurations. Upon selecting the saved file, click "Restore" and complete the restore process when the access point re-operates after it restarts.



- Restore to default settings: Click on "Default" button to restore the access point back to its manufacture default settings.
- Firmware Upgrade: Click on the "Browse" button to open a FileOpen Dialog box, where gets to select the firmware file, which download from the web for the latest version. Upon selecting the firmware file, click "Upgrade" and complete the firmware upgrade process when the Access Point re-operates after it restarts.

Do NOT upgrade firmware on any Atlantis Land product over a wireless connection. Failure of the device may result. Use only hard-wired network connections.

After upgrading you must reset the Access Point to factory default settings, then manually re-enter your settings.



Please pay attention. In case electrical shutdown, during this procedure, this product could be not usable.

When uploading software to the Wireless Multi-Function Access Point, it is important not to interrupt the Web browser by closing the window or loading a new page. If the browser is interrupted, it may corrupt the software





## **APPENDIX A: Troubleshooting**

This chapter covers potential problems and the corresponding remedies.

### A.1 Using LEDs to Diagnose Problems

The LEDs are useful aides for finding possible problem causes.

### A.1.1 LED Power

The PWR LED on the front panel does not light up.

Steps	CORRECTIVE ACTION
1	Make sure that the Wireless Access Point's power adaptor is connected to the Access Point and plugged in to an appropriate power source. Use only the supplied power adaptor.
2	Check that the Wireless Access Point and the power source are both turned on and the Wireless Access Point is receiving sufficient power.
3	If the error persists, you may have a hardware problem. In this case, you should contactAtlantis Land SpA.

### A.1.2 LED LAN

The LAN LED on the front panel does not light up.

Steps	CORRECTIVE ACTION
1	Check the Ethernet cable connections between the Access
	Point and the computer or hub.
2	Check for faulty Ethernet cables.
3	Make sure your computer's Ethernet card is working properly.
4	If these steps fail to correct the problem, contact your local
	distributor for assistance.



## A.1.3 LED WLAN

The WLAN LED on the front panel does not light up.

Steps	CORRECTIVE ACTION
1	Press the "Reset" button on the rear panel of the AP, to set back to factory default setting.
2	Please unplug AC Adaptor and replug-it.
3	If these steps fail to correct the problem, contact your local distributor for assistance.

### A.2 WEB

I cannot access the web configurator.

Steps	CORRECTIVE ACTION
1	Make sure you are using the correct IP address of the
	wireless Multi-Function Access Point. Check the IP address
	of the Access Point (192.168.1.1).
2	Check <b>Mac Filtering</b> (on Security). Access Control function allows clients whose MAC addresses in the list will be able to connect to this Access Point. When this function is activate, there is no wireless clients will be able to connect to the Access Point unless they are listed in the Access Control list.
3	Press the "Reset" button on the rear panel of the AP, to set back to factory default setting.

The web configurator does not display properly.

Steps	CORRECTIVE ACTION
1	Make sure you are using Internet Explorer 5.0 and later versions.
2	Delete the temporary web files and log in again. In Internet Explorer, click Tools, Internet Options and then click the Delete Files button. When a Delete Files window displays, select Delete all offline content and click OK. (Steps may vary depending on the version of your Internet browser.)

### A.3 Login

If you forget the password to log in

Steps	CORRECTIVE ACTION
1	The Reset function is to reset the setting back to factory default setting, once you press the "RESET" button within 10

	Wireless 108Mbps Multi-Function Access Point
	seconds, the LED of the WLAN will turn off. And when the Access Point is ready, the WLAN LED will start blinking. And the other function is when the AP is locked, press the reset button to unlock it.
2	Before configurating thisWireless Multi-Function Access Point, you need to know the following default settings. Username: admin Password : admin IP Address : 192.168.1.1 Subnet Mask : 255.255.255.0 Wireless: SSSID= default, Channel=6, WEP=disable



### A.4 FAQ

Question	Can I run an application from a remote computer over the wireless network?
Answer	This will depend on whether or not the application is designed to be used over a network. Consult the application's user guide to determine if it supports operation over a network.

Question	Can I play computer games with other members of the wireless network?
Answer	Yes, as long as the game supports multiple players over a LAN (local area network). Refer to the game's user guide for more information.

Question	What is Spread Spectrum?
Answer	Spread Spectrum technology is a wideband radio frequency technique developed by the military for use in reliable, secure, mission-critical communications systems. It is designed to trade off bandwidth efficiency for reliability, integrity, and security. In other words, more bandwidth is consumed than in the case of narrowband transmission, but the trade-off produces a signal that is, in effect, louder and thus easier to detect, provided that the receiver knows the parameters of the spread-spectrum signal being broadcast. If a receiver is not tuned to the right frequency, a spread-spectrum signal looks like background noise. There are two main alternatives, Direct Sequence Spread Spectrum (DSSS) and Frequency Hopping Spread Spectrum (FHSS).

#### What is DSSS? What is FHSS? And what are their Question differences? Frequency-Hopping Spread-Spectrum (FHSS) Answer uses а narrowband carrier that changes frequency in a pattern that is transmitter and receiver. known to both Properly synchronized, the net effect is to maintain a single logical channel. To an unintended receiver, FHSS appears to be Direct-Sequence short-duration impulse noise. Spread-Spectrum (DSSS) generates a redundant bit pattern for each bit to be transmitted. This bit pattern is called a chip (or chipping code). The longer the chip, the greater the probability that the original data can be recovered. Even if one or more

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bits in the chip are damaged during transmission, statistical techniques embedded in the radio can recover the original data without the need for retransmission. To an unintended receiver, DSSS appears as low power wideband noise and is rejected (ignored) by most narrowband receivers.

Question	Would the information be intercepted while transmitting
	on air?
Answer	WLAN features two-fold protection in security. On the hardware side, as with Direct Sequence Spread Spectrum technology, it has the inherent security feature of scrambling. On the software side, WLAN offers the encryption function (WEP) to enhance security and access control.

Question	What is WEP?
Answer	WEP is Wired Equivalent Privacy, a data privacy mechanism
	based on a 64-bit or 128-bit shared key algorithm, as
	described in the IEEE 802.11 standard.

Question	What is infrastructure mode?
Answer	When a wireless network is set to infrastructure mode, the
	wireless network is configured to communicate with a wired network through a wireless access point.

Question	What is roaming?			
Answer	Roaming is the ability of a portable computer user to			
	communicate continuously while moving freely throughout an			
	area greater than that covered by a single access point.			
	Before using the roaming function, the workstation must mak			
	sure that it is the same channel number with the access poi			
	of dedicated coverage area.			

#### Question What is ISM band?

Answer The FCC and their counterparts outside of the U.S. have set aside bandwidth for unlicensed use in the ISM (Industrial, Scientific and Medical) band. Spectrum in the vicinity of 2.4 GHz, in particular, is being made available worldwide. This presents a truly revolutionary opportunity to place convenient high-speed wireless capabilities in the hands of users around the globe.



Question	What is the IEEE 802.11g standard?
Answer	Approved in June, 2003 as an <u>IEEE</u> standard for wireless local area networks ( <u>WLANs</u> ), 802.11g offers wireless transmission over relatively short distances at up to 54 <u>megabits</u> per second (Mbps) compared with the 11 megabits per second of the <u>802.11b</u> ( <u>Wi-Fi</u> ) standard. Like 802.11b, 802.11g operates in the 2.4 <u>GHz</u> range and is thus compatible with it.





## **APPENDIX B: Technical Features**

Standards	IEEE 802.11b/g
	IEEE 802.3u 10/100BASE-TX Fast Ethernet
Advanced Features	Wireless Distribution System (Bridge and Repeat)
	Client Wireless and Repeater
	SuperG <sup>™</sup> (up to 108Mbps)
	Extended Range XR™ Technology
Signal Type:	DSSS (802.11b)
	OFDM (802.11g)
Modulation:	QPSK / BPSK / CCK / OFDM
LED Indicators:	Power, LAN (Link/Activity), WLAN (Link)
Frequency Range	2412 MHz ~ 2462 MHz (FCC)
	2412 MHz ~ 2472 MHz (ETSI)
	2400 MHz ~ 2484 MHz (Japan)
Channel:	1 ~ 11 Channels (FCC)
	1 ~ 13 Channels (ETSI)
	1 ~ 14 Channels (Japan)
Data Encryption:	64 bit / 128 bit WEP Encryption, WPA, WPA2,
	WPA-PSK, WPA2-PSK
Data Transfer Rate	Fast Ethernet: 10/100Mbps
	Wireless: Up to 54Mbps (with Automatic Scale
	Back)
Receiver Sensitivity	54Mbps: Typical -66 dBm @10% PER
	11Mbps: Typical -82 dBm @8% PER
Transmit Power	802.11g: Minimum 13dBm typically
	802.11b: Minimum 15dBm typically
Transmission Dange:	Outdoor: 100, 200M (dopondo op opyiropmont)
Transmission hange.	Indoor: 50-100M (depends on environment)
Network Cables	2-pair UTP/STP Cat. 3,4,5 (100 m)
Interface	1 x 10/100Mbps RJ45 port
Antenna:	1 x 2 dBi Dipole Antenna
DC inputs	DC 5V /2.4A
Power Consumption	5W (Max)
Temperature	Operating: 0 ~ 40 °C, Storage: -10 ~ 70 °C
Humidity	Operating: 10% ~ 90%, Storage: 5% ~ 90%
Dimensions	140 x 98 x 30 mm (W x H x D) without Antenna
EMI	FCC Class B, CE Mark B

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## **APPENDIX C: Support**

If you have any problems with the Wireless Access Point, please consult this manual. If you continue to have problems you should contact the dealer where you bought this device. If you have any other questions you can contact the Atlantis Land company directly at the following address:

Atlantis Land SpA Viale De Gasperi 122 20017 Mazzo di Rho(MI) ITALY

Tel: 039.02.93907634(help desk) Fax: 039.02.93906161 Email: <u>info@atlantis-land.com</u> or <u>tecnici@atlantis-land.com</u> WWW: <u>http://www.atlantisland.it</u> or <u>www.atlantis-land.com</u> Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com