

User Manual

Outdoor LAN Access Point with 1W Amplifier WAP-ABG2458



FEATURES

- Dual Band 2.4GHz/5.8GHz Tri-Mode 802.11 a/b/g
- Point-to-Point/ Point-to-Multipoint Wireless Connectivity
- Watertight and Weatherproof
- 64 / 128 / 152-bit WEP Data Encryption
- AP, Bridge, Station, and Repeater Modes
- Hide SSID (AP Mode)
- DHCP Client/ Server
- MAC Address Filtering (AP Mode)
- Power Amplifier Upgradeable
- Web-based Configuration
- Power over Ethernet (PoE)
- Output Power 2W

Please read the <u>Manual</u> before attempting to use this product.



RISK OF ELECTRIC SHOCK DO NOT OPEN!



TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CAUTION

1. Handle this product with care

Avoid any shock or bumping of the camera. Improper handling could damage the camera.

2. Requires a proper operating environment

This camera is designed for indoor use. The allowable temperature range for operation of this camera is between $-4^{\circ}F \sim 122^{\circ}F / -10^{\circ}C \sim 50^{\circ}C$.

3. Check the power source voltage

The power source voltage should be within the specified range. (Product must meet the specifications).

4. Objects and liquid entry

Never push objects of any kind into this product as this may touch dangerous voltage points of short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the product.

5. Servicing

Do not attempt to service this product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

6. Damage requiring service

Unplug this product from the wall outlet and refer service to qualified servicing personnel under the following conditions:

- a. When the power supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product has been dropped or the cabinet has been damaged.
- e. When the video product exhibits a distinct change in performance.

Note:

The **WAP-ABG2458** is intended for professional installation only. This manual, however, is also designed for personnel who plan, operate and administrate the **WAP-ABG2458** communication system. Please review the entire manual before powering up or deploying any **WAP-ABG2458**.

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OVERVIEW

The **WAP-ABG2458** is a powerful answer for customers seeking a reliable high-speed wireless connectivity solution. It is a 2.4GHz (802.11 b/g) and 5.8GHz (802.11a)-compliant Wireless Bridge/AP/AP Client, data delivers 1 to 54 Mbps data rates without the need for a license.

WAP-ABG2458 can operate as a point-to-point or a point-to-multipoint bridge to link networks in different buildings. It is particularly suited for financial banks, campus, store merchants and small business owners to create wireless backbone networks. System privacy is inherent through the MAC WEP based mutual authentication functionality by preventing unauthorized intrusion to the radio link.

The **WAP-ABG2458** is designed for outdoor environments. With lift-cover watertight housing, this is a robust Bridge/AP/AP Client, and uniquely designed that Antenna to integrate with housing. Supplying the power and Ethernet connectivity concurrently via a single Ethernet cable, the power over Ethernet (PoE) technology makes quick outdoor installation. **WAP-ABG2458** achieves rapid Return On Investment (ROI) for inter-building connection compared to T1 leased line with high capacity and high data throughput.

PACKAGE CONTENTS

- One (1) Outdoor Unit
- Three (3) Mounting Brackets
- Four (4) Long Screws
- Twelve (12) Washers
- Eight (8) Small Screws
- Twenty Four (24) Small Washers
- One (1) DC Injector
- One (1) 48V DC Power Adapter
- One (1) Installation CD
- One (1) User Manual

For any returns, please include all components listed above with original packaging in Resalable Condition. Absolutely No Returns will be accepted if any component is missing/damaged.

APPLICATIONS

Central Office to Branch Office(s) Connection



Medical Hospitals to Medical Hospitals Wireless Connection



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Building to Building Connection



Connection between City and Suburb



OPERATION TYPES

There are two different modes in which you can set up the **WAP-ABG2458** in the building-to-building wireless network: Point to Point mode, and Point to Multipoint mode.

Mode 1: Point-to-Point Connectivity (PTP Mode)

This is the simplest network configuration in which several computers equipped with the PC cards or client bridges that form a wireless network whenever they are within range of one another.



Mode 2: Point to Multipoint Mode (PTMP Mode)



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HARDWARE INSTALLATION

HARDWARE DESCRIPTION

Outdoor Unit:



- A. Two layers silica gel: having double-waterproof
- B. EMI prevent wire: To avoid electromagnetic interference
- C. Nylon cable gland:IP68; Working Temp:-40°C~100°C
- D. Half-screw: Not to fall
- E. Panel Antenna:17 dBi gain; SMA connector
- F. Access Point/Bridge: IEEE 802.11a -compliant
- G. Power over Ethernet (POE) Splitter set: Output 5V DC / 3A
- H. Mounting kit: Mounting Bracket on Mast with /U-bolts
- * LED on the AP/Bride description:

On the AP/Bridge there are LED lights that inform you of the AP/Bridge's current status. Below is an explanation of each LED.

	The Power LED lights up and will keep while the AP is powered on.
Dannan	When the AP goes through its self-diagnostic mode during every
Power	boot-up, this LED will flash. When the diagnostic is complete, the LED
	will be lit continuously.
11a	The 11a LED flashes when there is a successful Wireless-A connection.
11h/-	The 11b/g LED flashes when there is a successful Wireless-B/G
IID/g	connection.
	The LAN LED lights up when Ethernet port of AP was connected
LAN	flashing that indicates the network activity over that port.



Indoor Unit: DC Injector





- A. Power LED: The Light is green. Power is supplied
- B. DATA IN:TO connect PC/Notebook or network
- C. P+DATA OUT: TO connect 6803 outdoor unit
- D. Power in: TO connect 48vdc adapter

OUTDOOR UNIT INSTALLATION

Step 1: Place the Ethernet cable through the "Nylon cable gland"



1a)



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1c)











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Step 2: Connect the Ethernet cable to PoE Splitter set

Step 3: Connect the PoE Splitter set to AP/Bridge

Step 4: Connect the Antenna to AP/Bridge



Step 5: Screw the housing



MOUNTING BRACKET ON MAST WITH U-BOLTS



- Step 1: Affix pole mounting bracket
- Step 2: Affix pivot adapter bracket
- Step 3: Affix pole clamp
- Step 4: Adjust the angles.



INDOOR UNIT INSTALLATION



TYPICAL DEPLOYMENT IN A POINT-TO POINT CONFIGURATION



SETTING THE BASE STATION UNIT (BU)

PC Configuration – Follow the steps below in order to configure the TCP/IP settings of your PC.

Step 1: In the Control Panel double click Network Connections, and then double click on the connection of your Network Interface Card (NIC). You will then see the following screen.

Provide the second s	Advanced	
onnect using:		
\mu Broadcom 440x 10)/100 Integrated Co	ntroller
		Configura
his connection uses the	following item:	
Client for Micros	oft Networks	
Element of Whites	Sharing for Microsoft	t Networks
QoS Packet Sci	heduler	. Herione
Internet Protoco	I (TCP/IP)	
I <u>n</u> stall	Uninstall	Properties
Description		
Transmission Control F	Protocol/Internet Pro	tocol. The default
wide area network pro	tocol that provides o	communication
actoss diverse intercol	nnecteu networks,	
Show icon in notificat	ion area when conn	ected
The state of the second second second		
	(TK Cance



Step 2: Select Internet Protocol (TCP/IP) and then click on the Properties button. This will allow you to configure the IP address of your PC. You will then see the following screen.

ou can get IP settings assigne lis capability. Otherwise, you n le appropriate IP settings.	d automatically if your network, supports and to ask your network administrator for
O gbtain an IP address auto	metically
() Use the lokowing IP addle	•••
JP address:	192 188 1 239
Sylmet mark:	255 255 . 255 . 0
Dofault gateway.	
Co Obtain ONS service admen	a a banake ida
O Ling the following DNS ser	ver addresses:
Evelened DNS server	
Alternate DNS server.	



Step 3: Select Use the following IP address radio button, and then enter an IP address and subnet mask for your PC. Make sure that the device and your PC is on the same subnet.

Step 4: Click on the OK button, your PC's TCP/IP settings have been configured.

BRIDGE SETUP-WEB CONFIGURATION

Step 5: Logging In – To configure the Bridge through the web-browser, enter the IP address of the Bridge into the address bar of the web-browser (default IP: 192.168.1.250), and press Enter. If it cannot work, please press the reset button which is on AP/Bridge. Please see the reference of the enclosed picture.



Step 6: A screen will be popped up and request you to enter user name and password. The default user name and password is as follows.

> User Name: Password: Admin

Enter the default user name and password, then press OK button directly.

Connect to 193	2.168.1.250	? 🛛
R		1 A
11AG AP		
User name:	ß	*
Password:	•••••	
	Remember my passv	vord
	ок	Cancel
Basestation (anit Rema	ste unit

Step 7: After you login, you will see the following screen.

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Hertwork Setup						
klentity	Device times Familyie's Vie slots	 D - Jun 9 2008, 10	04.90	- 3		
) ned Prine Betweek	Intery Attract Sel C Dimetric & Blate IP	Hitter				
	P Address Bubnet Mask	233	161 1251 251	290 P		
	Deraultoate	ess worker In	Ne P	M		



Step 8: Search Status – Choose the item-Status>Wireless Network. After this step, you will see the following screen.



Step 9: To set [Wireless Bridge] mode to select "Wireless>Wireless Mode>Wireless Bridge " .After you do, you will see the following screen.



Step 10: Please key-in the number of Remote unit (RU) to the column of AP MAC Address. If you don't know the values, please look for the 3.3 (set the RU), to run step 8, then to search the number.

Step 11: To choose 802.11a of Mode column.

Step 12: To change the values of channel 140.

sans 2 - 49 Hz	Setup	Wireless	Administration	Status	
Wireless A+G	Wireless Settings	Wireless Mode	Wireless MAC Filter	Wreless Security	Advanced Wireless Settings
	isolation:	in a start s			
Wireless-A Settings		-	-		OTED1
	Mode:	O Disable	Enable		-SIEFI
	lurbo Mode:	802.11a	ツ――	1.00	- STEP2
	SSID:	w]an-a			
	Broadcast SSID:				
	Channel:	5700MHz	(Channel 140) 🗸		-STEP3
Nireless-B/G Settings					STEP4
	Mode:	() Disable	O Enable		
	Radio Policy:	b/g mixed	~		
	SSID:	wlan-g			
	Broadcast SSID:				
	Channel:	2437MHz	c (Channel 6) 💌		
		- Annota a series a s			

SETTING THE REMOTE UNIT (RU)

PC Configuration – Follow the steps below in order to configure the TCP/IP settings of your PC.

Step 1: In the Control Panel double click Network Connections, and then double click on the connection of your Network Interface Card (NIC). You will then see the following screen.

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19093525	Authenticatio	on Advani	ced		
Conne	ct using:				
疁	Broadcom 440:	x 10/100 ln	tegrated C	Controlle	t
This c <u>c</u>	nnection uses	the followir	ng item::	C	<u>C</u> onfigure
	Client for Mic File and Prin QoS Packet Internet Prot	crosoft Netv ter Sharing Scheduler ocol (TCP/I	vorks for Micros IP)	oft Netv	vorks
(I <u>n</u> stall	Un	install		Properties
- Desc Tran wide acro	ription Ismission Contr area network Iss diverse inte	ol Protocol/ protocol th rconnected	/Internet F at provide I networks	Protocol. s commi	The default unication
🕑 Sho	o <u>w</u> icon in notifi	ication area	when cor	nected	Cancel
				UN	
					Here

Step 2: Select Internet Protocol (TCP/IP) and then click on the Properties button. This is to configure the IP address of your PC. You will then see the following screen.

Internet Protocol (TCP/IP) I	Properties 🛛 😰 🔯
General	
You can get IP sellings assigned this eacebliky. Otherwise, you ne this appropriate IP settings O Etrain on IP address autor O Ups the following IP address	d automatically if your national, supports eed to ask your nativork administrator for matically
(F address:	197 168 1 139
Sybrict mosk:	265 . 255 . 255 . 0
Default galamay.	[· · ·
Evelened DNS server Alternate DNS server	Adyanced_
	Here

- Step 3: Select Use the following IP address radio button, and then enter an IP address and subnet mask for your PC. Make sure that the device and your PC is on the same subnet.
- Step 4: Click on the OK button, your PC's TCP/IP settings have been configured. Bridge Setup-Web Configuration
- Step 5. Logging In To configure the Bridge through the web-browser, enter the IP address of the Bridge into the address bar of the web-browser (default IP: 192.168.1.250), and press Enter. If it cannot work, please press the reset button which is on AP/Bridge. Please see the reference of the enclosed picture.



Step 6: A screen will be popped up and request you to enter user name and password. The default user name and password is as follows.

User Name: Password: Admin

Enter the default user name and password, then press OK button directly.

Connect to 19	2.168.1.250	? 🛛
R		
11AG AP User name:	ß	×
Password:	••••••	saword
	ОК	Cancel



Step 7: After you login, you will see the following screen.

		Sime	Westman	Advancebulice	Thetus	
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Land Arms Instancial Person's Address Solution C. Denemic & Static IP P. Address 197 168 1 250	in any in	Firmwiele Version	1 D - Jun 9 2005, 10	04.90		
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The fact the		P Antross	1	C ALL REAL	200	
		Bubiletimas	с. ро Б	- 15 15 150		
Default Galeway Antrass. P P P P		The rate of 4 2 of 14	WAN ADDRESS M	10 10	0	



Step 8: Search Status – Choose the item-Status>Wireless Network. After this step, you will see the following screen.



Step 9: To set [Wireless Bridge] mode to select "Wireless>Wireless Mode>Wireless Bridge " .After you do, you will see the following screen.



Step 10: Please key-in the number of Base station unit (BU) to the column of AP MAC Address. If you don't know the values, please look for the 3.2 (set the BU), to run step 8, then to search the number.

Step 11: To choose 802.11a of Mode column.

Step 12: To change the values of channel 140.

Setup	wireless		and the second sec	
ALL SALAR		Administration	Status	
reless Settings solation:	Wireless Mode	Wireless MAC Filter	Wireless Security	Advanced Wireless Settings
vlode;	O Disable	© Enable		-STEP1
Furbo Mode: 🔡 SSID:	802.11a wlan-a	$ \rightarrow $		- STEP2
3roadcast SSID: Channel:	☑ 5700MHz	: (Channel 140) 🐱	>—	-STEP3
Mode:	Dicable	CEnable		STEP4
Radio Policy:	b/g mixed	. V Linable		
SSID:	wlan-g			
Broadcast SSID:				
Channel:	2437MHz	: (Channel 6) 💌		
	reless Softings solation: /urbo Mode: SSID: 3roadcast SSID: Channel: // Aode: Radio Policy: SSID: 3roadcast SSID: Channel:	veless Settings Vireless Mode solation: □ Aode: ○ Disable furbo Mode: 802.11a SSID: wlan-a Broadcast SSID: ☑ Channel: \$700/MHz Aode: ② Disable Mode: ③ Disable SSID: ☑ SSID: ☑ SSID: ☑ SSID: ☑/g mixed SSID: ☑ SSID: ☑ Stoadcast SSID: ☑ Channel: 2437/MHz	reless Settings Vkreless Mode vkreless MAC Filter solation: Image: Comparison of the system of the sys	reless Settings Wireless Mode Wireless MAC Filter Wireless Security solation: Image: Comparison of the security Image: Comparison of the security Adde: Obsable Omenable Enable SSID: Image: Comparison of the security Image: Comparison of the security Adde: Obsable Omenable Enable Channel: S7000MHz (Channel 140) Image: Comparison of the security Adde: Obsable Omenable Image: Comparison of the security Adde: Obsable Omenable Image: Comparison of the security SSID: Image: Comparison of the security Image: Comparison of the security SSID: Image: Comparison of the security Image: Comparison of the security Stroadcast SSID: Image: Comparison of the security Image: Comparison of the security Channel: 2437/MHz (Channel 6) Image: Comparison of the security

RUNNING TEST

Step 1: IPNet tuner is installed on PC which is in Base Station (BU). (IPNet tuner, which is one of the products in Sustainable Softworks Company, is enclosed in the installation CD. It is a full functional 21 day trial. If you need the further help or information, please search on http://www.sustworks.com/site/prod_iptx_overview.html)

🕐 lefter Three Same	. = 🔀
TeNetTimer Situp	
This will matual lighter Turner () (6.3 on your computer.	







Step 2: To execute IPNet tuner and make some sets, as followed.

arameter () MTU faximum Transmission Unit	(M1U)	MTU Boot-Time Default Value: Current Value:	not defined Auto Defined	85 <u>*</u>
44 TB 644mm [102.16	0.0.120	Load Profile	Reset	Apply
Link Rate Test TCP Rate Test 20M	Bytes/s Avg Bytes/s	Bits/s Avg Bits/s		Test Mork Reset
10M Bits/s	Bits	Subtract CPU delays	- Asymmetric Co	
Units. V Dyns	Dits	V Sublaterero delays	1 Asymmetric Con	

Basestation unit

Remote unit

distance >30 ft 0408

Step 3: To test the data rate when pressing the test.

177NetTuner				
ih Bah General bendern and			-	
arrester reference wy	Redentrication	ol dil renderect fi	• Chomet With	
Frankeiser 🕦 MTU Massianum Trakaminsion Ur	ak (MTV)	Boor-Time Default Value: Channelt Value:	Avia	-1
	10	Loui Prelik	Rest	Apply
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10М Вњи Duats (* Rytes	s Bar Se :	hibaat CPII delaya	T Asympton Con	Cini Cini
Here				
Basestar				4

Step 4: Data rate will be lower if the radiative angle of Antenna is wrong.

🖳 IPNetTuner		
<u>File H</u> elp		
Network Interface:	- Realtek R TL8139/810X Fam	ily PCI Fast Ethernet NIC 💌
Parameter: O MTU Maximum Transmission Unit (MTU)	Time not defined lt Value: Auto nt Value: Defined
Test to IP Address: 192.168	Load Profi	ile Reset Apply
C TCP Rate Test	Bytes/s: 639K	Bits/s: 5111K
9M 4.5M		Mark Reset Clear
Bits/s Units: ^ Bytes @	Bits 🔽 Subtract CP	U delays 🦵 Asymmetric Connection



Step 5: If the angle is corrected, you will receive the maximum.

e <u>H</u> elp			
etwork Interface: 😰 - Re	altek R TL8139/810X Family PC	CI Fast Ethernet NIC 💌	
arameter: 👩 MTU Aaximum Transmission Unit (MTU)	Boot-Time Default Val Current Va	not defined lue: Auto due: Defined	-
est to IP Address: 192.168.2.139 • Link Rate Test	Load Profile Name: RICH Bytes/s: 2285K	Reset A	pply
TCP Rate Test Av	'g Bytes/s 2168K Avg	Bits/s: 17340K	Mark Reset
9.5M	a hard a faith atte	and that he had a second se	Clear
Bits/s Units: ^ Bytes Sits	🔽 Subtract CPU del	lays 🦵 Asymmetric Connection	



Step 6: After receiving the maximum, the BU and RU is connected to be the WLAN.

Step 7: If it cannot work, please see the reference of chapter 3~4 and re-execute step 3 to step 5.

Step 8: There are a lot of factors that will affect the maximum of data rate, such as angles, distance, polarization, etc. please see the chapter 4.

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MOUNTING LOCATION

ANTENNA POLARIZATION

The integrated antenna radiates and receives vertically polarized radio signals. Polarization helps reduce interference because the antenna tends to reject cross-polarized signals from other sources.

a. Polarization is the same.





b. Polarization is different.



ANTENNA RADIATION ANGLE

The range of Antenna Radiation has angles, not all around.





SIGNAL PATH CLEARANCE (FRESNET ZONE)

The Fresnel Zone is the area around the visual line-of-sight that radio waves spread out into after they leave the antenna. You want a clear line of sight to maintain signal strength, especially for 5.8 GHz wireless systems.



MULTI-PATH FADING

Because **WAP-ABG2458** typically transmits its strongest signals in a cone-shaped pattern, some of the signal may be reflected from a nearby building, from water under the signal path, or from other RF reflectors. This reflected signal can then be received by the far- end WAP-ABG2458 and superimposed on the main signal, usually degrading the signal strength.





SPECIFICATIONS

Model	WAP-ABG2458		
Antenna	14dBi		
Wireless Interface Standard	IEEE802.11a/b/g Tri-Mode		
Modulation	For 802.11a/g OFDM		
wodulation	For 802.11b DSSS		
Wired Interface	100 baseT (RJ45)		
Frequency Rand	2.3GHz to 2.5GHz		
Frequency Band	4.9GHz to 6.2GHz		
Radio Technology	OFDM / DSSS		
Data Pata	108/54/48/36/24/18/12/11/9/6/5.5/2/1 Mbps auto		
Data kate	fallback		
Security	64/128/152-bit WEP Encryption		
RF Transmission Power	1W		
Constitutty	-73dBm @ 108Mbps		
Sensitivity	-95dBm @ 1Mbps		
Power Supply	DC48V/0.38A, 100V-240V for AC adaptor		
Operating Temperature	0°C ~ 55°C		
Operating Humidity	0~90% (non-condensing)		
Dimension	290 x 275 x 100 mm		
Weight	3.5 kg		

* Specifications are subject to change without notice

LIMITED ONE (1) YEAR WARRANTY AND EXCLUSIONS

Manufacturer warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Manufacturer is free of defects in materials and workmanship under normal and proper use for one (1) year from the purchase date. Manufacturer's only obligation is to correct such defects by repair or replacement, at its option, if within such one (1) year period the product is returned prepaid, with proof of purchase date, and a description of the problem. This warrant excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other implied warranties of any kind, including merchantability and fitness or a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warrant, including merchantability and fitness of or a particular purpose, is limited to one (1) year. Manufacturer is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, loss sales or profits or delay or failure to perform this warranty obligation. The remedies, provided therein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

APPENDIX A: ACCESS POINT / BRIDGE CONFIGURATION

AP	Defau	ılt S	ettin	gs
----	-------	-------	-------	----

User	
Password	Admin
IP Address	192.168.1.250
Subnet Mask	255.255.255.0
RF ESSID	A band: WLAN-A / G band: WLAN-G
Channel	A band: Auto / G band: 6
Mode	G band: Mixed
Encryption	Disabled

Network Setup

MAKE CORRECT NETWORK SETTINGS OF YOUR COMPUTER To change the configuration, use Internet Explorer (IE) or Netscape Communicator to connect the WEB management 192.168.1.250.

This screen contains all of the AP's basic setup functions.

2-3-1 2-49Mz		Setup	Wireles	s	Adm	ninistrati	ion
ireless A+G	Netw	ork Setup					
Network Setup							
Identity	Dev	rice Name:	1				
	Firm	ware Version: 1	1.0 - Jun 9 200	5,10:04	k:50		
Local Area Network	Prim	ary Address Sel	ection				
	C	Dynamic					
	e	Static IP					
		IP Address:		192	168	1	250
		Subnet Mask	2	255	255	255	0
		Default Gatev	vay Address:	0	0	0	0
						120179	

Most users will be able to configure the AP and get it working properly using the default settings.

Network Setup

Identity

Device Name: These fields allow you to input a host name for the AP.

- Local Area Network
 - Dynamic: If your LAN supports DHCP assigning dynamic IP address then please select this type.
 - Static IP: This is the default connection type. If you are required to use a fixed IP address to connect to the LAN, then select Static IP.

IP Address: This is the AP's IP address.

Subnet Mask: This is the AP's Subnet Mask.

Default Gateway: This is the AP's Gateway Address.

Those above items can be adjusted that depends on real network architecture if it is necessary. Change these settings as described here and click the Apply button to apply your changes or click. For additional information, click Help.

Wireless Settings

Wireless Settings

Enable L2 isolation: Enable this checkbox can isolate each wireless client which associated this AP.

Wireless-A Settings

If you are using a Wireless-A network, then the following settings that you may need to configure.

Mode: This mode is controlling the Wireless-A (802.11a) networking, Enabled or Disabled.

Turbo Mode: Using this mode enables high-speed connections but severely limits range. To perform this Turbo Mode, both the AP and wireless PCs must support this function. Turbo Mode is Atheros proprietary technology, so it does not compatible with non-Atheros chipset Wireless LAN device, only with Atheros Wireless-A turbo adapters. To increase the speed of your wireless transmissions up to 108 Mbps, select Enabled. (Note: the AP's range will decrease in Turbo Mode.) If you do not want to use Turbo Mode, select Disabled.

Network Name (SSID): The service set identifier (SSID) or network name. It is case sensitive and must not exceed 32 characters, which may be any keyboard character. You shall have selected the same SSID for all the APs that will be communicating with mobile wireless stations.

Broadcast SSID: When wireless clients survey the local area for wireless networks associated, they will detect the SSID broadcast by the AP. To broadcast the AP's SSID, keep the default setting, Enabled. If you do not want to broadcast the AP's SSID, then select Disabled.

Channel: Select the appropriate channel from the list provided to correspond with your network settings. You shall assign a different channel for each AP to avoid signal interference. If you want the AP to automatically scan for a clear channel, then select Auto (DFS).

Wireless-G Settings

If you are using a Wireless-B, Wireless-G, or Wireless B+G network, then the following settings that you may need to configure.

Mode: This option can control B/G band on/off. Radio Policy: From this drop-down menu, you can select the wireless standards running on your network.

- If you have both 802.11g and 802.11b devices in your network, keep the default setting ---b/g mixed.
- If you have only 802.11g devices, select 802.11g Only.
- If you have only 802.11b devices, select 802.11b Only.
- If you want to run a high-speed transmission, select 802.11g Turbo.

Network Name (SSID): The service set identifier (SSID) or network name. It is case sensitive and must not exceed 32 characters, which may be any keyboard character. You shall have selected the same SSID for all the APs that will be communicating with mobile wireless stations.

Broadcast SSID: When wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast by the AP. To broadcast the AP's SSID, keep the default setting, Enabled. If you do not want to broadcast the AP's SSID, then select Disabled.

Channel: Select the appropriate channel from the list provided to correspond with your network settings. You shall assign a different channel for each AP to avoid signal interference.

Satt 2.Agens	Setup	Wireless	Administration	Statu
Wireless A+G	Wireless Settings	Wireless Mode	Wireless MAC Filter	Wireless
Wireless Settings	In this page you can	i configure 802.11a	and 802.11g wireless net	work settings
	Enable L2 isolation:			
Wireless-A Settings				
	Mode:	C Disable (• Enable	
	Turbo Mode:	802.11a	1 m	
	SSID:	wlan-a		
	Broadcast SSID:	V		
	Channel:	Auto (DFS)	*	
Wireless-B/G Settings				
	Mode:	C Disable	• Enable	
	Radio Policy;	b/g mixed	•	
	SSID:	wlan-g		
	Broadcast SSID:			
	Channel:	2437MHz (C	Thannel 6) 💌	

Change these settings as described here and click the Apply button to apply your changes or click Cancel button to cancel your changes. For additional information, click Help.

Wireless Mode

There are 3 operating modes in each A,B/G band, using the following setting can perform each function.

Wireless-A Settings

Access Point: This mode provides access for wireless stations to wired LANs and from wired LANs to wireless stations. This mode is not only performing AP function but also support WDS connection. Input remote AP's MAC address in below 4 fields can generate 4 WDS connections with this AP.

Repeater: This mode can be a repeater in your WLAN architecture. Input a SSID that you want to associate in right field.

Wireless Client: This mode can be a client as general WLAN card in your WLAN architecture. Input a SSID that you want to associate in right field. Using one computer with Ethernet interface to connect this device, then the computer will has capacity of WLAN association.

Wireless-G Settings

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dire.					
-	Setup	Wieless	Administration	Status	
Wireless Are	Vincess Satisfies	Fill carbon Militer	All conce save filter	WHEEP'S GECHNY	Advancecontacions Scibings
Westwee Mode Soffinge	er ann ha ña Jon cau ca	eingute 607 The sta	t BCD 51g wrinings safety	alt. eache anthege	
Wantess A Settings	🖗 Arcess Point	M95 Inlin - Sen [30 coce cocoo	de APS' NWC Address 0		
		11 10 00 00 00 00	ā		
		00.000000000	0		
		10.0000000	0		
	C Pripater	Settings for Su	Buller 1		
	• • • • • • • • • • • • • • • • • • •	Helpote Airo ssa	S Dormer		
		Metable APS HAS	Satings on Second	WED web Dre. priored	insy' and residen for runs starteliant more
			Configure Lo	Window Seculty	iela.
		Die Eurys			
Whelsee RC Settings	Access Point	105 links . Sen 00 00 00 00 00 00	de AFs' NWC Address		
		0000000000	á l		
		100000000	0		
		10.0000000	9		
	C Repeater	Settings for Sa	peatur Cilont Mode		
	C Windows Churd	Reporte AP4 004	y Julia y		
		Perste AP's MAX	Address		
		Wirelaun Sprach	Sitem wit Second Configure tio	MER with the manual Minetron Security (lory" excrucións ha y spalalar blant excl High
		Die Ewyes			

Change these settings as described here and click the Apply button to apply your changes or click Cancel button to cancel your changes. For additional information, click Help.

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Wireless MAC Filter

This function allows administrator to have access control by enter MAC address of wireless devices which transmitting within your wireless network.

Wireless-A Setting

Access Control List Mode: This drop-down menu can set Enable/Disable the ACL function.

Default Access: Select the default policy for this ACL rule.

Specific Clients list: Except the default rule, administrator can also create one policy for special client via Add ACL.

Wireless-B/G Setting

Access Control List Mode: This drop-down menu can set Enable/Disable the ACL function.

Default Access: Select the default policy for this ACL rule.

Specific Clients list: Except the default rule, administrator can also create one policy for special client via Add ACL.

		1992			
Satt 2.4ghz	Setup	Wireless	Administration	Status	
Wireless A+G	Wireless Settings	" VVireless Mode	Wireless MAC Filter	Wireless Security	Advanced \
Access Control List (ACL)	Grant or deny acces	ss to individual client:	s.		
Wireless-A Settings	Access Control L	ist Mode: Enable	•		
	Default Access:	eject			
	Specific Clients				
		MAC Address		ACL Type	
					Add ACL
Wireless-B/G Settings	Access Control L	ist Mode: Enable	•		
	Default Access:				
	Accept C R	eject			
	Specific Clients				
		MAC Address		ACL Type	
				4	Add ACL
	Apply Cance	d Hclp			

Change these settings as described here and click the Apply button to apply your changes or click Cancel button to cancel your changes. For additional information, click Help.

Wireless Security

The Wireless Security settings configure the security of your wireless network. There are three wireless security mode options supported by the AP: WEP (Wired Equivalent Privacy), WPA Pre-Shared Key, WPA RADIUS.

Wireless Security

The security options are the same and independent for your Wireless-A and Wireless-G networks. You can use different wireless security methods for your networks; however, within each network (Wireless-A or Wireless-G), all devices must use the same security method and settings.

Security Mode:

WEP: WEP is a basic encryption method, select a level of WEP encryption, 40/64-bit or 128-bit. If you want to use a Passphrase, then enter it in the *Passphrase* field and click the Generate button. If you want to enter the WEP key manually, then enter it in the *WEP Key 1-4* field(s). To indicate which WEP key to use, select the appropriate *TX Key* number.

WPA only:

WPA Pre-Shared Key: This security mode offers two encryption methods, TKIP and AES, with dynamic encryption keys. Select the type of encryption method you want to use, TKIP or AES. Enter the Passphrase, which can have 8 to 63 characters. Then enter the Key Renewal period, which instructs the AP how often it should change the encryption keys.

WPA RADIUS: This security mode must work with a RADIUS server using EAP –TLS or PEAP for user authentication. To use WPA RADIUS, select the type of encryption method you want to use, TKIP or AES. Enter the RADIUS server's IP address and port number (default is 1812), along with the authentication shared key by the AP and the server.

Enter the Key Renewal period, which instructs the AP how often it should change the encryption keys.

Datt 2 Agt	Setup	Wireless	Admini:
Wireless A+G	Wireless Settings	Wireless Mode	Wireless M
Wireless Security Settings			
Wireless-A Settings	Security Mode:	Disable 💌	
Wireless-B/G Settings	 Security Mode:	Disable	
	Apply Can	œl Help	

Change these settings as described here and click the Apply button to apply your changes or click Cancel button to cancel your changes. For additional information, click Help.

Advanced Wireless Settings

This section provides AP's advanced wireless settings. These settings should be adjusted carefully. Any improper settings will affect the AP's wireless performance.

Advanced Wireless Wireless-A Settings

Authentication Type:

Open System: This is default setting, those wireless clients that NOT use a WEP key for authentication. Shared Key: This option means the wireless clients use a WEP key for authentication. Shared Key is only available if the WEP option is implemented.

Transmission Rate: The data transmission rate should be set depending on the speed of your wireless network. You can select a proper transmission speeds to fit your wireless clients requirement, or you can select Auto (Default) to have the AP automatically adjust one the fastest and suitable data rate to fit network status at the time. Usually this function can be named Auto-Fallback feature. Auto-Fallback will treat one best connection rate between the AP and a wireless client. The default value is Auto (Default).

Transmission Power: This option provides the AP's RFoutput power adjustment. To minimize the possibility of eavesdropping by unauthorized wireless users, suggest to decrease the transmission power with a needed by your wireless environment. By drop down menu, you can select the appropriate level, Full (Default), Half, Quarter, Eighth, or Min. The default is Full (Default).

Antenna Select: This option provides antenna setting for which one you would like to set as TX/RX antenna. Using Diversity setting is proposed.

ACK Timeout: The Acknowledgement Timeout means from remote to local data transmission, one parameter to control both acknowledging action to guaranty those packets have already be received. Usually, for short distance, keep default setting is proposed. If there is long distance application, have minor increased with this parameter will be proposed.

Beacon Interval: The Beacon Interval value indicates the frequency interval of the beacon. Enter a value between 20 and 1000. A beacon is a packet broadcast by the AP to synchronize the wireless network. The default value is 100.

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 AP has buffered broadcast or multicast messages for associated clients, it sends the next DTIM with a DTIM Interval value. Its clients hear the beacons and awaken to receive the broadcast and multicast messages. The default value is 1

The default value is 1.

Fragmentation Threshold: This value specifies the maximum size for a packet before data is fragmented into multiple packets. If you experience a high packet error rate, you may slightly increase the Fragmentation Threshold. Setting the Fragmentation Threshold too low may result in poor network performance. Only minor reduction of the default value is recommended. In most cases, it should remain at its default value of 2346.

Beacon interval: The data transmitted on your wireless network that keeps the network synchronized.

DTIM: A message included in data packets that can increase wireless efficiency. Fragmentation: Breaking a packet into smaller units when transmitting over a network medium that cannot support the original size of the packet.

RTS Threshold: Using this setting can regulate your wireless network if you experience any inconsistent data flow situation, only by minor adjustment of the default value, the default value 2346 is recommended. The RTS/CTS mechanism will not be enabled if your wireless network packet less than RTS threshold value. The AP sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The RTS Threshold value should keep at its default value of 2346.

Wireless-B/G Settings

Authentication Type:

Open System: This is default setting, those wireless clients that NOT use a WEP key for authentication. Shared Key: This option means the wireless clients use a WEP key for authentication. Shared Key is only available if the WEP option is implemented.

Transmission Rate: The data transmission rate should be set depending on the speed of your wireless network. You can select a proper transmission speeds to fit your wireless clients requirement, or you can select Auto (Default) to have the AP automatically adjust one the fastest and suitable data rate to fit network status at the time. Usually this function can be named Auto-Fallback feature. Auto-Fallback will treat one best connection rate between the AP and a wireless client. The default value is Auto (Default).

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RTS /CTS Threshold: Using this setting can regulate your wireless network if you experience any inconsistent data flow situation, only by minor adjustment of the default value, the default value 2346 is recommended. The RTS/CTS mechanism will not be enabled if your wireless network packet less than RTS threshold value. The AP sends Request to Send (RTS) frames to a particular receiving station and negotiates the sending of a data frame. After receiving an RTS, the wireless station responds with a Clear to Send (CTS) frame to acknowledge the right to begin transmission. The RTS Threshold value should keep at its default value of 2346.

Short Preamble: This setting is for 11b clients, usually set short value will enhance your WLAN performance for 11b client, however the 11b clients must have same feature as well.

Allow 2.4GHz 54Mbps Station Only: In order to keep high performance for this WLAN, set this option Enable will only allow stations with 54Mbps data rate to associate this AP.

RTS/CTS Protection Mode: CTS (Clear-To-Send) Protection Mode should be set to Auto (Default). The AP will automatically use CTS Protection Mode when the Wireless-G products are experiencing severe problems and are not able to transmit to the AP in an environment with heavy 802.11b traffic. This function boosts the AP's ability to catch all Wireless-G transmissions but will severely decrease the performance. If you do not want to use CTS Protection Mode at all, select Disabled. RTS/CTS Protection Rate: This setting is set the rate of RTS/CTS while protection mode is enabled.

RTS/CTS Protection Type: This protection mode provides 2 types, one is RTS/CTS and other is CTS only. Generally, using CTS only is able to fulfill most of environment.

1							
2.4ghz	Setup	Wireless	Administration	Status			
Vireless A+G	Mireless Settings	Wreless Mode	Wireless MAC Filter	Wireless Security	Advanced Wireless		
Advanced Wireless	<u>.</u>						
Wireless-A Settings	Authentication T	уре:	Open Syst	tem (Default) 👻			
	Transmission Ra	ite:	best 💌				
	Transmission Po	wer:	Foll				
	Antenna Select:		Diversity	•			
	ACK Timeout:		48 (Default: 48, Range: 0 ~ 372)				
	Beacon Interval:		(Default: 100 Milliseconds, Range: 20 ~ 1000)				
	DTIM Interval:		1 0	Default: 1,Range: 1 ~ 1	6384)		
	Fragmentation T	hreshold:	2346 (Default: 2343, Range: 266 ~ 2346)				
	RTS/CTS Thresh	iold:	2346 _{(D}	efault: 2345, Range: 25	6 ~ 2346)		
Wireless-B/G Settings	Authentication T	уре:	Open Syst	Open System (Default) 💌			
	Transmission Ra	te:	best	-			
	Transmission Po	wer:	Full				
	Antenna Select:		Diversity	-			
	ACK Timeout:		48 (Default: 48, Range: 0 ~	372)		
	Beacon Interval:		100 _{(D}	efault, 100 Milliseconds	, Range: 20 ~ 1000)		
	DTIM Interval:		1 0	Default: 1,Range: 1 ~ 1	6384)		
	Fragmentation T	hreshold:	2346 (D	efault: 2343, Range: 25	6 ~ 2346)		
	RTS/CTS Thresh	old:	2346 _{(D}	2346 (Default: 2345, Range: 0 ~ 2346)			
	Short Preamble:		C Disable	C Disable @ Enabe			
	Allow 2.4GHz 54	4Mbps Stations Only:	C Disable	C Enabe			
	RTS/CTS Protect	tion Mode:	Auto	·			
	RTS/CTS Protect	tion Rate:	11 Mbps	*			
	RTS/CTS Protect	tion Type:	CTS-or	ly CRTS-CTS			

Change these settings as described here and click the Apply button to apply your changes or click Cancel to cancel your changes. For additional information, click Help.

Administration: Management

This section allows the network's administrator to manage specific AP functions for access and security.

Management UserName: The login username, default value is blank(null). Password: The login password, default value is admin.

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Re-enter to Confirm: You can change the AP's password from here. Enter a new AP password and then type it again in the Re-enter to Confirm field to confirm.

Enable Telnet: Enable this checkbox can to perform Telnet configuration.

Backup and Restore

Backup Settings: To back up the AP's configuration, click this button and follow the on-screen instructions.

Restore Settings: To restore the AP's configuration, click this button and follow the on-screen instructions.

(You must have previously backed up the AP's configuration.)

30Hz 2.49Hz	Setup	Wireless	Administration	Status	
Wireless A+G	Management	Reboot AP	Firmware Upo	late	Factory Defaults
Management					
	UserName: Password:			****	
	Re-enter to Confirm;			****	
	Enable Telnet:			N	
	Backup Settings	Restore Settin	gs		
	Apply Cancel	Help			

Change these settings as described here and click the Apply button to apply your changes or click Cancel to cancel your changes. For additional information, click Help.

Administration: Reboot AP

AP Reboot: Click this button to initialize this device.

Satta 2 agent	Setup	Wireless	Administration	Status		
Wireless A+G	Management	Reboot AP	Firmware Upd	ate	Factory Defaults	
AP Rebo	ot					
	Reboot AP					

Administration: Firmware Upgrade

This Firmware Upgrade screen allows you to upgrade the AP's firmware. Do not upgrade the firmware unless you are experiencing problems with the AP or the new firmware has a feature you want to use.

Firmware Upgrade

Please select a file to upgrade: In the field provided, enter the name of the extracted firmware upgrade file, or click the Browse button to find this file.

Start to Upgrade: After you have selected the appropriate file, click this button for upgrade.

Setup Wireless Administration Status Wireless A+G Management Reboot AP Firmware Update Factory Defaults						
Wireless A+G Management Reboot AP Firmware Update Factory Defaults Firmware Update Please Select a File to Upgrade; WE Start to Upgrade	Dent 2.4ghz	Setup	Wireless	Administration	Status	
Firmware Update Please Select a File to Upgrade: 	Wireless A+G	Management	Reboot AP	Firmware Upd	ate	Factory Defaults
Please Select a File to Upgrade: Start to Upgrade	Firmware Update					
Start to Upgrade:		Please Select a File	e to Upgrade:		覽	
				Start to Up	grade	
0%						0%
Warning: Upgrading firmware may take a few minutes, please don't turn off the power or press the res button.		Warning: Upgr. button.	ading firmware may I	take a few minutes, p	lease don't turn	off the power or press the reset
Upgrade must NOT be interrupted II		Upgrade must M	IOT be interrupted !!			

Administration: Factory Defaults

This Factory Defaults allows you to restore the AP's configuration to its factory default settings.

Factory Defaults

Restore Factory Defaults: Click this button to reset all configuration settings to their default values. Any settings you have saved will be lost when the default settings are restored.

Satt 2.Ages	Setup	Wireless	Administration	Status		
Wireless A+G	Management	Reboot AP	Firmware Upd	late	Factory Defaults	
Factory Default	s					
	Restore Fact	ory Defaults				

Status: Local Network

The Local Network screen on the Status Tab displays the status of your network.

Identity

Device Name: The device name for user identification. Firmware Version: The current AP firmware version display here.

Local Area Network Local MAC Address: This is the AP's local physical MAC Address.

Connection Type: The current IP address type --- Dynamic or Static.

IP Address: The current AP's IP address. Subnet Mask: This is AP's local subnet mask.

Default Gateway: This is the local network gateway IP.

		-	
Batter 2. Agens	Setup Wi	reless	Administration
Wireless A+G	Local Network	Wirel	ess Network
Network Setup			
Identity	Device Name: Firmware Version: 1.0 - Ju	un 9 2005, 14	:22:10
Local Area Network			
	Local MAC Address:	00:90:4B:DA	xE7:95
	Connection Type:	Static IP	
	IP Address:	192.168.1.25	50
	Subnet Mask:	255.255.255	i.0
	Default Gateway Address	0.0.0.0	

Status: Wireless Network

The Wireless Network screen on the Status Tab displays the information of your Wireless networks.

Wireless-A Settings MAC Address: This is the AP's Wireless-A band MAC Address.

Mode: This mode is displaying the current status of Wireless-A band network. Enabled means the A band network is ON.

Turbo Mode: This mode is displaying the turbo mode status. (Enabled/Disabled)

SSID: This displays the AP's current Wireless-A SSID string.

Broadcast SSID: This displays the AP's SSID Broadcast status.

Channel: The current A band channel you are using.

Wireless-B/G Settings MAC Address: This is the AP's Wireless-G band MAC Address.

Mode: This mode is displaying the current status of Wireless-B/G band network. Enabled means the B/G band network is ON.

Radio Policy: This displays the Wireless-G band network mode. SSID: This displays the AP's current Wireless-B/G SSID string. Broadcast SSID: This displays the AP's SSID Broadcast status. Channel: The current G band channel you are using.

Satt 2. Agenz	Setup	Wireless	Administration	Status
Wireless A+G	Local Network	vvir	eless Network	
Wireless Settings	802.11a and 802.11	g wireless network	settings are shown as the	following.
	L2 isolation;	Disable		
Wireless-A Settings				
	MAC Address:	00:90:48:DA:E	7:93	
	Mode:	Enable		
	Turbo Mode:	802.11a		
	SSID:	wlan-a		
	Broadcast SSID:	Enable		
	Channel:	Auto (DFS)		
	-			
Wireless-B/G Settings				
	MAC Address;	00:90:48:DA:E	7:94	
	Mode:	Enable		
	Radio Policy:	b/g mixed		
	SSID:	wlan-g		
	Broadcast SSID;	Enable		
	Channel:	2437MHz (Cha	annel 6)	

Status: Wireless Statistics

Wireless Statistics: This displays the AP and stations that are currently part of the BSS.

DEHZ 2-AGHL	Setup	Wireless	Administration	Status				
Wireless A+G	Local Network	vvir	eless Network	Wireless Statistics				
Wireless Statistics	This shows the A	This shows the Access Point and the stations that are currently part of the BSS.						
Wireless-A	5GHz Statistics							
	ID	MA	C Address	State				
	AP	00:90	4B:DA:E7:93	up				
Wireless-B\G	2.4GHz Statistic	s						
	ID	ма	C Address	State				
	AP	00:90	4B:DA:E7:94	up				