802.11b+g Access Point

User's Guide

FCC Certifications

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 or more 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.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the 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.

FCC RF Radiation Exposure Statement

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

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.

All trademarks and brand names are the property of their respective proprietors.

Specifications are subject to change without prior notification.

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INTRODUCTION

This is an IEEE802.11b/g compliant 11 Mbps & 54 Mbps Ethernet Wireless Access Point. The Wireless Access Point is equipped with two 10/100 M Auto-sensing Ethernet ports for connecting to LAN and also for cascading to next Wireless Access Point.

This Access Point provides 64/128bit WEP encryption, WPA and IEEE802.1x which ensures a high level of security to protects users' data and privacy. The MAC Address filter prevents the unauthorized MAC Addresses from accessing your Wireless LAN. Your network security is therefore double assured.

The web-based management utility is provided for easy configuration that your wireless network connection is ensured to be always solid and hassle free.

Features

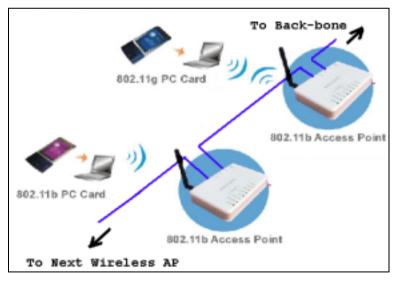
- Two LAN ports for Wireless AP cascade.
- Support WPA.
- Support AP client mode.
- Support WDS for bridge mode.
- Support data rate automatic fallback.
- Automatic channel selection.
- Client access control.
- Support 802.1x/Radius client with EAP-TLS, TKIP, AES encryption.
- Support IAPP.
- Adjustable Tx power, Tx rate, and SSID broadcast.
- Allow WEP 64/128 bit.
- Web redirection for unauthorized clients.
- Web interface management.
- Support System event log and statistics.
- MAC filtering (For wireless only).

Application

Example 1

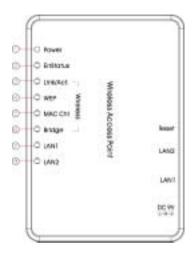


Example 2



Parts Names and Functions

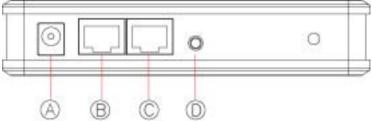
1. Front Panel: (LED Indicators)



	LED		Status	
	Indicator	Color	Solid	Flashing
1	Power	Green	Turns solid green when power is applied to this device.	N/A.
2	Status	Red	Turns solid red when the device is booting, after boot scuessfully, the light turn off.	
3~6 Wireless	Link/Act.	Green	Turns solid green when connected and associated to at least a client station.	Receiving/ Sending data
	WEP/WP A	Orange	Turns solid orange when wireless security is enabled.	N/A
	MAC Ctrl	Orange	Turns solid orange when MAC Control is enabled.	N/A
	WDS	Orange	Turn solid orange when WDS is enabled.	N/A
7	LAN 1	Green	Turns solid green when linked to a local network.	Receiving/ Sending data
8	LAN 2		initiation to a rocar network.	Sename unu

Table 1: LED Indicators

2. Rear Panel: Connection Ports



	Port/button	Functions	
Α	12V DC	Connects the power adapter plug	
В	LAN1	Connects to Ethernet	
С	LAN2	Connects to Ethernet	
D	(Factory)	Press over 3 seconds to reboot this device.	
	RESET	Press for over 10 seconds to restore factory settings.	
		Performing the Factory Reset will erase all previously	
		entered device settings.	

Table 2:	Connection	Ports
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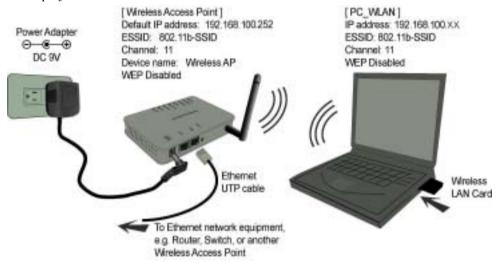
Factory Default Settings

Setting	Wireless Access Point	
Device Name	Wireless AP	
SSID	Default value: 802.11g-AP	
Channel	11	
WEP	Default value: Disabled	
IP Address	192.168.100.252	

.

HARDWARE CONNECTION

Note: Before you starting hardware connection, you are advised to find an appropriate location to place the Access Point. Usually, the best place for the Access Point is at the center of your wireless network, with line of straight to all your wireless stations. Also, remember to adjust the antenna; usually the higher the antenna is placed, the better will be the performance.



- 1. **Connect to your local area network:** connect a **Ethernet cable** to one of the **Ethernet** port (LAN1 or LAN2) of this Wireless Access Point, and the other end to a hub, switch, router, or another wireless access point.
- 2. **Power on the device**: connect the included AC power adapter to the Wireless Access Point's power port and the other end to a wall outlet.

Check the LEDs:

The Power and LAN # LEDs should be ON. LAN# LED will even blink if there is traffic.

The *Link/Act* LED will be on in static when associated with a station and blink whenever this AP receives data packets in the air.

If the *Status* LED glows after self-test, it means this Wireless Access Point fails on self test. Please ask your dealer for technical support.

3. **Configure your PC:** Make sure your local PC(s) has wireless network adapter installed.

ABOUT THE OPERATION MODES

This device provides four operational applications with Access Point, Bridge, Client (Ad-hoc) and Client (Infrastructure) modes, which are mutually exclusive.

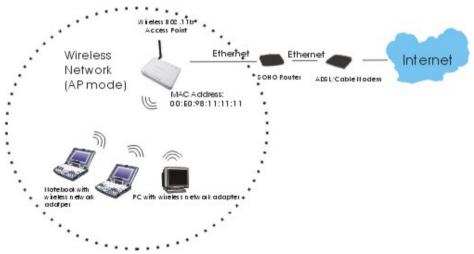
This device is shipped with configuration that is functional right out of the box. If you want to change the settings in order to perform more advanced configuration or even change the mode of operation, you can use the web-based utility provided by the manufacturer as described in the following sections.

Access Point Mode

When acting as an access point, this device connects all the stations (PC/notebook with wireless network adapter) to a wired network. All stations can have the Internet access if only the Access Point has the Internet connection.

See the sample application below.

To set the operation mode to Access Point, please go to "Wireless \rightarrow Basic Settings", in the "Mode" field click the down arrow \checkmark to select AP mode.



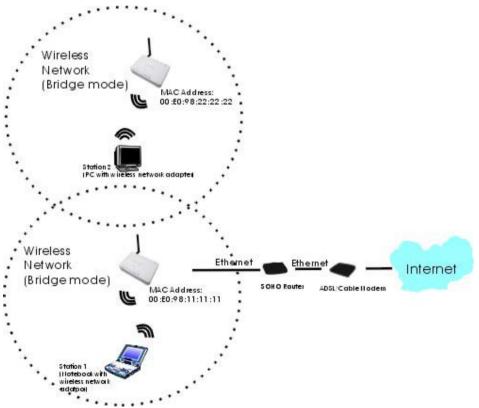
Bridge Mode

Refer to the illustration below. While acting as Bridges, AP1 (with Station 1 being associated to) and AP2 (with Station 2 being associated) can communicate with each other through wireless interface (with WDS). Thus Station 1 can communicate with Station 2 and both Station 1 and Station 2 are able to access the Internet if only AP1 or AP2 has the Internet connection.

To set the operation mode to **Bridge**, please go to "Wireless \rightarrow Basic Settings", in the "Mode" field click the down arrow \checkmark to select AP mode. And go to "Wireless \rightarrow WDS Settings" to enable WDS.

Note:

To act as Bridge, both AP1 and AP2 must have WDS enabled and add each other as its WDS Access Point. (e.g. Add AP2's MAC address to AP1's "WDS AP List" and vice versa)

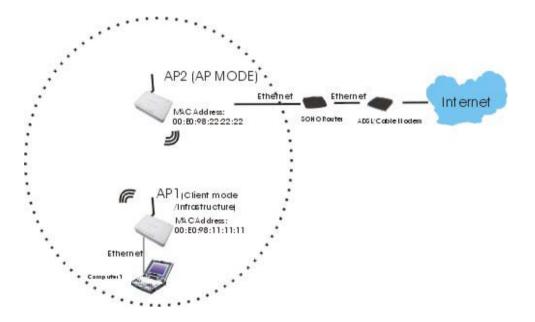


Client Mode (Infrastructure)

If set to Client (Infrastructure) mode, this device can work like a wireless station when it's connected to a computer so that the computer can send packets from wired end to wireless interface.

Refer to the illustration below. This station (AP1 plus the connected computer 1) can associate to another Access Point (AP2), and then can have the Internet access if the other Access Point (AP2) has the Internet connection.

To set the operation mode to **Client (Infrastructure)**, please go to "Wireless \rightarrow Basic Settings", in the "Mode" field click the down arrow \checkmark to select **Client** mode, and then select "Network Type" as "Infrastructure".

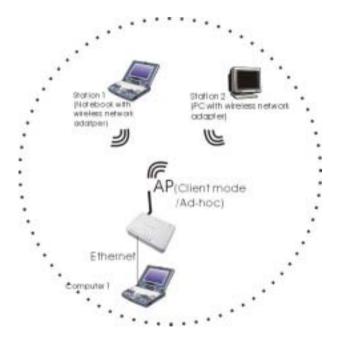


Client Mode (Ad-hoc)

If set to the Client (Ad-hoc) mode, this device can work like a wireless station when it is connected to a computer so that the computer can send packets from wired end to wireless interface. You can share files and printers between wireless stations (PC and laptop with wireless network adapter installed).

See the sample application below.

To set the operation mode to **Client (Ad-hoc)**, please go to "Wireless \rightarrow Basic Settings", in the "Mode" field click the down arrow \checkmark to select **Client** mode, and then select Network Type as "Ad-hoc".



WDS Bridge Mode (Repeater Mode)

The WDS (Wireless Distributed System) function let this access point acts as a wireless LAN access point and repeater at the same time. Users can use this feature to build up a large wireless network in a large space like airports, hotels and schools ...etc. This feature is also useful when users want to bridge networks between buildings where it is impossible to deploy network cable connections between these buildings.

CONFIGURATION

Login

- 1. Start your computer. Connect an Ethernet cable between your computer and the Wireless Access Point.
- 2. Make sure your wired station is set to the same subnet as the Wireless Access Point, i.e. 192.168.100.12.
- 3. Start your WEB browser. In the *Address* box, enter the following:

HTTP: //192. 168. 1. 254

Baaltek WLMI AP Weberrer - Nicrosoft Internet Explorer	
Che Lat You Pyratus Judi 1940	
Qaat - 🔘 🖹 🖉 🐔 🔎 Saath 👷 Tavates 🐠 Nada 🥹 🔒 🕁	
Agiteen (1) http://142.160.1.254	*

The configuration menu is divided into four categories: **Status, Wireless, TCP/IP,** and **Other settings**. Click on the desired setup item to expand the page in the main navigation page. The setup pages covered in this utility are described below.

Status

In this screen, you can see the current settings and status of this Access Point. You can change settings by selecting specific tab described in below.

System



System		
Uptime	The time period since the device was up.	
Firmware Version	The current version of the firmware installed in this device.	
Wireless Configuration		
Wireless Mode	There are four modes supported, Access Point, Client (Ad-	
	hoc and Infrastructure), and Bridge. The default mode is	
	Access Point. If you want to change to bridge mode, please	
	go to Wireless/WDS Setting to enable the WDS function.	
SSID	The SSID differentiates one WLAN from another, therefore,	
	all access points and all devices attempting to connect to a	
	specific WLAN must use the same SSID. It is case-sensitive	
	and must not exceed 32 characters. A device will not be	
	permitted to join the BSS unless it can provide the unique	
	SSID. An SSID is also referred to as a network name because	
	essentially it is a name that identifies a wireless network.	

The number of channels supported depends on the region of		
this Access Point. All stations communicating with the Access		
Point must use the same channel.		
WEP Encryption (Wired Equivalent Privacy) is set to		
Disabled by default. When WEP is enabled, data packet is		
encrypted		
before being transmitted. The WEP prevents data packets from		
being eavesdropped by unrelated people. By using WEP data		
encryption, there may be a significant degradation of the data		
throughput on the wireless link.		
Displays the total number of clients associated to this AP. You		
can have up to 64 clients to associate to this Access Point.		
BSSID displays the ID of current BSS, which uniquely		
identifies each BSS. In AP mode, this value is the MAC		
address of this Access Point.		
Display the method to get the IP of this AP, which could be		
obtained by Fixed-IP or DHCP-client.		
Current IP address for this Access Point		
Current Subnet mask for this Access Point		
Default Gateway for this Access Point		
The MAC Address for this Access Point		

System Log

This page display log events with time when events happened, log events' types, log sources and the description for events themselves. System manager can use the system log to trace when problems occur.

	WLAN Access Point Stolus Weeless TCP/IP Other Details Doctor Candidad States Tanced Los		
Arrina anti-constraints anti-constraints react system by Na	System Log Thi paper on the most in introducing server and duest the system log		
	Ratess Clew	ł	

Statistics

The Statistics table shows the packets sent/received over wireless and ethernet LAN respectively.

	WLAN Access Point Status Wireless TCF/IP Other				
	Statistics				
This page shows the packet counters for transmission and reception regarding to whites and Ethernet	Window LAN	Sent Packata	4229		
		Pecehert Packets Sent Packeta	2399		
NACEAR	Ethernet LAN	Received Pachets			

Wireless

Basic Settings

This page includes all primary and major parameters. Any parameter change will cause the device to reboot for the new settings to take effect.

Street IF: Hernel Land		- 915
	APRIL 180 BRD	
41-8+11-133	3 240 Linkes See 3 2-13 (7-13 +	
PERIOD INVESTIGATION	hana	- 246 88 -
	WLAN Access Point	
The same is used in configure the production to the same the same time of the same the same of the same the same the same of the same the same of the same t	Conset Fueld: Todays Conset Today Conset	
-		a decides

Disable Wireless LAN Interface	Check the box to disable the Wireless LAN	
Disable whereas DAI (Internace	Interface, by so doing, you won't be able to	
	make wireless connection with this Access	
	Point in the network you are located. In	
	other words, this device will not be visible	
	by any wireless station.	
Band	You can choose one mode of the following	
	you need.	
	• 2.4GHz (B): 802.11b supported rate	
	only.	
	• 2.4GHz (G): 802.11g supported rate	
	only.	
	\odot 2.4GHz (B + G): 802.11b supported rate	
	and 802.11g supported rate.	
	The default is 2.4 GHz (B + G) mode.	
Mode	This Wireless Access Point can support four	
	modes AP, Client, Bridge and Repeater.	
	(Refer to page 7-11 for detailed information)	
Network Type	When in Client mode, you can select	
	between Ad-Hoc and Infrastructure.	

SSID	The SSID differentiates one WLAN from
	another, therefore, all access points and all
	devices attempting to connect to a specific
	WLAN must use the same SSID. It is case-
	sensitive and must not exceed 32 characters.
	A device will not be permitted to join the
	BSS unless it can provide the unique SSID.
	An SSID is also referred to as a network
	name because essentially it is a name that
	identifies a wireless network.
Channel Number	Allow user to set the channel manually or
	automatically.
	If set channel manually, just select the
	channel you want to specify.
	If "Auto" is selected, user can set the
	channel range to have Wireless Access Point
	automatically survey and choose the channel
	with best situation for communication.
	The number of channels supported depends
	on the region of this Access Point. All
	stations communicating with the Access
	Point must use the same channel.
Enable Mac Clone (Single Ethernet	If your ISP restricts service to PCs only, use
Client)	the MAC Clone feature to copy a PC Media
	Access Control (MAC) address to your
	router. This procedure will cause the router
	to appear
	as a single PC, while allowing online access
	to multiple computers on your network.
Apply Changes	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered
	since last time you press Apply Change.

Advanced Settings

It is not recommended that settings in this page to be changed unless advanced users want to change to meet their wireless environment for optimal performance

	WLAN A	Access Point
		Wireless TCP/IP Other desced Setting Security Sin Server, WDS Setting
	Wreless Advanced	Settings
These settings are only for more factorically advanced sectorically advanced settings who have a about wereless LAN. These anthrops should not be changed unless you have what	Authentication Type: Fragment Threshold: RTS Threshold: Beacen Interval: Data Rate:	Open System Shared Key Acto 2346 256 2346 0-2547 0-2547 0-2547 0-2547 0-2547 0-2547 0-2547 0-2547
effect the changes will have on your Access	Preamble Type:	Long Pleamble O Shot Pleamble
Rome:	Broadcast SSID:	Enabled Deobled
	WPP:	Enabled - Dindlet
	802.11g Protection:	Evabled O Disobled
	Apply Changes	Result

Authentication Type	To provide a certain level of security, the IEEE 802.11 standard has defined two types of authentication methods, Open System and Shared Key. With Open System authentication, a wireless PC can join any network and receive any messages that are not encrypted. With Shared Key authentication, only those PCs that possess the correct authentication key can join the network. By default, IEEE 802.11 wireless devices operate in an Open System network.
	Wired Equivalent Privacy (WEP) data encryption is used when the wireless devices are configured to operate in Shared Key authentication mode.
	If the Access Point is using Open System , then the wireless adapter will need to be set to the same authentication mode.
	Shared Key is used when both the sender and the recipient share a secret key.
	Select Auto for the network adapter to select the Authentication mode automatically depending on the Access Point Authentication mode.

Fragment Threshold	Fragmentation mechanism is used for improving the efficiency when high traffic flows along in the wireless network. If your 802.11g Wireless LAN PC Card often transmit large files in wireless network, you can enter new Fragment Threshold value to split the packet. The value can be set from 256 to 2346. The default value is 2346 .
RTS Threshold	RTS Threshold is a mechanism implemented to prevent the "Hidden Node" problem. "Hidden Node" is a situation in which two stations are within range of the same Access Point, but are not within range of each other. Therefore, they are hidden nodes for each other. When a station starts data transmission with the Access Point, it might not notice that the other station is already using the wireless medium. When these two stations send data at the same time, they might collide when arriving simultaneously at the Access Point. The collision will most certainly result in a loss of messages for both stations.
	Thus, the RTS Threshold mechanism provides a solution to prevent data collisions. When you enable RTS Threshold on a suspect "hidden station", this station and its Access Point will use a Request to Send (RTS). The station will send an RTS to the Access Point, informing that it is going to transmit the data. Upon receipt, the Access Point will respond with a CTS message to all station within its range to notify all other stations to defer transmission. It will also confirm the requestor station that the Access Point has reserved it for the time-frame of the requested transmission.
	 If the "Hidden Node" problem is an issue, please specify the packet size. <i>The RTS mechanism will be activated if the data size exceeds the value you set.</i>. The default value is 2347. Warning: Enabling RTS Threshold will cause redundant network overhead that could negatively affect the throughput performance instead of providing a remedy.
	This value should remain at its default setting of 2347 . Should you encounter inconsistent data flow, only minor modifications of this value are recommended.
Beacon Interval	Beacon Interval is the amount of time between beacon transmissions. Before a station enters power save mode, the station needs the beacon interval to know when to wake up to receive the beacon (and learn whether there are buffered frames at the access point).
Data Rate	By default, the unit adaptively selects the highest possible rate for transmission. Select the basic rates to be used among

	the following options: Auto, 1, 2, 5.5, 11or 54 Mbps. For most networks the default setting is Auto which is the best choice. When Auto is enabled the transmission rate will select the optimal rate. If obstacles or interference are present, the system will automatically fall back to a lower rate.
Preamble Type	A preamble is a signal used in wireless environment to synchronize the transmitting timing including Synchronization and Start frame delimiter. In a "noisy" network environment, the Preamble Type should be set to
	Long Preamble . The Short Preamble is intended for applications where minimum overhead and maximum performance is desired. If in a "noisy" network environment, the performance will be decreased.
Broadcast SSID	Select enabled to allow all the wireless stations to detect the SSID of this Access Point.
IAPP	IAPP (Inter Access Point Protocol) is designed for the enforcement of unique association throughout a ESS (Extended Service Set) and a secure exchange of station's security context between current access point (AP) and new AP during handoff period.
802.11g Protection	The 802.11g standard includes a protection mechanism to ensure mixed 802.11b and 802.11g operation. If there is no such kind of mechanism exists, the two kinds of standards may mutually interfere and decrease network's performance.

Apply Change	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time
	you press Apply Change.

Security

Here you can configure the security of your wireless network. Selecting different method will enable you to have different level of security. Please note that by using any encryption, by which data packet is encrypted before transmission to prevent data packets from being eavesdropped by unrelated people, there may be a significant degradation of the data throughput on the wireless link.

Encryption : None (Encryption is set to None by default.)

If Use 802.1x Authentication is selected, the RADIUS Server will proceed to check the 802.1x Authentication.

3L	WLAN Access Point
	Status Wireless TCP/IP Other Caucilation Advantation Security Access Central Stations W03 Setting Wireless Security Setup
This page adves yes antap the WEP secondy. Two on WEP by samp Exception Reviewood prevent any insufficience Access to procession to procession restaction.	Encryption: None Encryption: None Encryption:
	Group Key Life Time: (1991) Set
	Eastie Pre-Asthentication
	Authentication RABIUS Server: Part Patheres Patheres Patheres
	Note: When encogenics WEP is selected, you read not WEP key value
	Apply Changes Reset

Encryption: WEP

If **WEP** is selected, users will have to **Set WEP keys** either manually, or select to **Use 802.1x Authentication** to make the RADIUS server to issue the WEP key dynamically.

	etup the WEP key value. You could choose use 64-bit or 128-bit a lect ASCII or Hex as the format of input value.
Key Length:	64-bit 💌
Key Format:	ASCII (5 characters)
Default Tx Key:	Key 1 💌
Encryption Key 1:	
Encryption Key 2:	Addition and a second s
Encryption Key 3:	
Encryption Key 4:	and a second sec

Set WEP key	 Click the Set WEP Keys will prompt you a
	window to set 64bit or 128bit Encryption.
	 Select HEX if you are using hexadecimal
	numbers (0-9, or A-F). Select ASCII if you are
	using ASCII characters (case-sensitive).
	Ten hexadecimal digits or five ASCII
	characters are needed if 64-bit WEP is used;
	26 hexadecimal digits or 13 ASCII characters
	are needed if 128-bit WEP is used.

Encryption: WPA (TKIP)

WPA (TKIP): If WPA is selected, users will have to select the Authentication modes between Enterprise (RADIUS) and Personal (Pre-shared Key).

prevent any unexhibitivel access to your weeksa selvenk	WPA Authentication Mode: Pre-Shared Key Format: Pre-Shared Key: Group Key Life Time:	O'Enterprise (RACIUE) - D'Personal Pre-Shared Key) Proculentes
Pre-shared Key		Pre-Shared-Key serves as a password. Users may key in a 1 to 63 characters string to set the password or leave it blank, in which the 802.1x Authentication will be activated. Make sure the same password is used on client's end. There are two formats for choice to set the Pre- shared key, i.e. Passphrase and Hex . If Hex is selected, users will have to enter a 64 characters string. For easier configuration, the Passphrase

bi da able Pre-Authentication T	nter the number of seconds that will elapse efore the group key change automatically. The
able Pre-Authentication T	
able Pre-Authentication T	f_{au} is 96400 as a set d_a
	efault is 86400 seconds.
	he two most important features beyond WPA to ecome standardized through 802.11i/WPA2 are:
1	re-authentication, which enables secure fast paming without noticeable signal latency.
	reauthentication provides a way to establish a
	MK security association before a client
as	ssociates. The advantage is that the client
re	educes the time that it's disconnected to the
ne	etwork.
thentication RADIUS Server P	ort: Enter the RADIUS Server's port number
pi	rovided by your ISP. The default is 1812 .
п	P Address: Enter the RADIUS Server's IP
A	ddress provided by your ISP.
P	assword: Enter the password that the AP
sł	nares with the RADIUS Server.

Apply Change	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you
	press Apply Change.

Access Control

When **Enable Wireless Access Control** is checked, only those clients whose wireless MAC addresses listed in the access control list can access this Access Point. If the list contains no entries with this function being enabled, then no clients will be able to access this Access Point.

X	WLAN Access Point
	Status Wireless TCP/IP Other Bons Settings Adversal Settings Security Access Central Statistics WDS Setting
	Wireless Access Control
you choose 'Allowed' steet', only those fierts whose vanileds	Wirelow Access Control Made: Disable 💌
MC addresses are m w access control kat	MAC Address: Comment:
ill be sole to connect 5 your Access Point When Dany Listed' is elected, those	Apply Changes Reset
enless cleres on the st will not be able to	Current Access Control List:
onvect the Access Point	MAC Address Comment

Wireless Access (Mode	Control Select the Access Control Mode from the pull-down menu. Disable: Select to disable Wireless Access Control Mode. Allow Listed: Only the stations shown in the table can associate with the AP.
	Deny Listed : Stations shown in the table won't be able to associate with the AP.
MAC Address	Enter the MAC Address of a station that is allowed to access this Access Point.
Comment	You may enter up to 20 characters as a remark to the previous MAC Address.
Apply Changes	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you press Apply Change.
Delete Selected	To delete clients from access to this Access Point, you may firstly check the Select checkbox next to the MAC address and Comments, and press Delete Selected .
Delete All	To delete all the clients from access to this Access Point, just press Delete All without selecting the checkbox.
Reset	If you have made any selection, press Reset will clear all the select mark.

Site Survey

Site survey displays all the active Access Points and IBSS in the neighborhood. When you are in the client mode, you can select one AP to associate.

Press **Refresh** to get the latest information.

X	WLAN A	Access	Point			
	Basic Strangs	Wireless T	distants.	ther		
The page provides tool to acco the windows patence. If	510	#1512D	Chanel	7,94	Tarrypi	Signal
vereleas refucel: // any Access Point or ASS is Access you coald choose to connect if manually when clear mode is anathed	Retest	1				

WDS Setting

To enable WDS function will let this AP enter "Bridge Mode". Two APs in bridge modes can communicate with each other through wireless interface. That is, two stations associated to different AP in bridge mode can communicate with each other.

XX	WLAN Access Point
	Status Wireless TCP/IP Other Base Setting Adviced Betray Security Active Control Site Servey WDB Setting
	WDS Settings
Wiveleas Distribution System uses vervices media to	Enable WDS
convoluticate with other APs, Nie the Ethernet does, To do	Add WDS AP: MAC Address Connent
Mus, you round and Muse APa in the	Apply Changes Reset Bet Security Show Statutos
same chapped and bet MAC address of other	Current WDS AP List:
APa which you want to . communicate with in	MAC Address Connent Select
the table and then mable the WDD	Datate Detected Detection Reset

Check the checkbox to enable WDS, all of the WDS settings in this screen can be enabled only when WDS or AP+WDS is selected in Wireless Basic Settings screen (See pageXX).
MAC Address: Enter the MAC Address for the Access Point to establishWDS Comment: You may enter up to 20 characters as a remark to the previous MAC Address.

Apply Changes	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time
	you press Apply Change.
Set Security	Click to set the WDS security, please refer to the previous Wireless Security Setup section (Page XX).
	WDS Security Setup
	This page stows you aroup the replace sensity for WDR When working you must make user and WDR denote has adopted the same encryption depotter and Exp
	Incognizer WEP 128 av -
	WEP Nay Foresat Auct (1) (Recoders) in
	WTP Neg
	Pre-School Key Protections
	Pro-Shared Rep
	Apply Overnors Dove Pasel
CL C4 - 4° - 4°	
Show Statistics	Click to show the detailed information for each WDS AP.
	3 WIS AP Table Altereatt Internet Deplement
	WDS AP Table
	This takes during the MAC attletes, to consistence, we applies particle stratest and attle- adimension for each condigened WCELAP
	MAX Address To Fachan To Dover Polifician To San Oligen
	Fathering Class
Current WDS AP List	The added Access Points for participating WDS with this
	Access Point are shown.
Delete Selected	You can delete the WDS Access Points listed above by
Delete All	marking the checkbox. You can delete all of the WDS Access Points listed
Delete All	above.
Reset	Press to discard the data you have entered since last time
	you press Apply Change.

TCP/IP

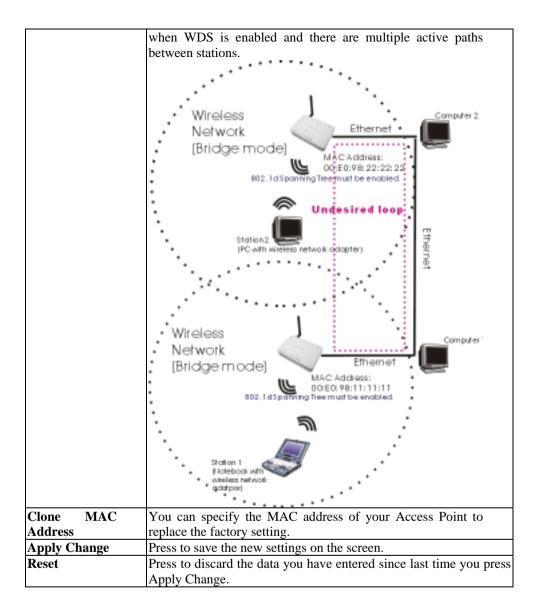
Basic

In this page, you can change the TCP/IP settings of this Access Point, select to enable/disable the DHCP Client, 802.1d Spanning Tree, and Clone MAC Address.

2	WLAN	Access Point
	Status	Wireless TCP/IP Other
	LAN Interfac	e Setup
Ho page is used to infigure the evenies for infect local any		gan De persenter for local are activate Muth rocards to the Ford Herry you may change the retaing for IP address, subset
rinock which prevents to the LAN pet of your Access	IP Address	1921681254
and there you may	Subsert Marik:	295.255.255.8
change the setting for AF address, subset mask, DYCP, etc.	Debali Gairing:	3100
	DIRCP:	Server 👻
	DECF Cline Rangel	192,168.1.188 = 192,168.1.200 Show Client
	DOS Server	
	80214 Spanning Trees	Dindblad 👻
	Chese MAC Address:	443000000000
	Apply/Changeo	Resot

IP Address	This field can be modified only when DHCP Client is disabled.			
	If your system manager assigned you static IP settings, then you			
	will have to enter the information provided.			
Subnet Mask	Enter the information provided by your system manager.			
Default Gateway	Enter the information provided by your system manager.			
DHCP	Select Disable , Client or Server from the pull-down menu.			
	Disable: Select to disable DHCP server function.			
	Client: Select to automatically get the LAN port IP address from			
	ISP (For ADSL/Cable Modem).			
	Server: Select to enable DHCP server function.			
DHCP Client	253 IP addresses continuing from 192.168.1.1 to			
Range	192.168.1.253			
Show Client	Click to show Active DHCP Client table.			
DNS Server	Enter the Domain Name Service IP address.			

802.1d	To enable 802.1d Spanning Tree will prevent the network
Spanning Tree	from infinite loops. Infinite loop will happen in the network



Other

<u>Upgrade Firmware</u>

X	WLAN Access Point
	Status Wireless TCP/IP Other Daniel Finner See Relad String Danwerd Lag
272 2	Upgrade Firmware
Please have the new himmers image prepared it takes a moment to save the	Select File:
new image and solood activities by Please So waiting	Upbad Reset

- 1. Download the latest firmware from your distributor and save the file on the hard drive.
- Start the browser, open the configuration page, click on Other, and click Upgrade Firmware to enter the Upgrade Firmware window. Enter the new firmware's path and file name (i.e. C:\FIRMWARE\firmware.bin). Or, click the Browse button, find and open the firmware file (the browser will display to correct file path).
- 3. Click **Reset** to clear all the settings on this page. Or click **Upload** to start the upgrade.

Save/Reload Settings

X	WLAN	Access Poin	đ
	Status	Wireless TCP/IP Durade Formers	Other Interd Sectors (Parrword) Log
	Save/Reload Setti	ngs	
This page allows you awar current settings to a file or velocit the actings from the file which were award presentally. Elevision, you could reset the current could preset the current could preset the to factory default	Save Settings to File:	Sere.	
	Load Settings from File:	-	Browte Upland
	Reset Settings to Defeuil:	Flexat	

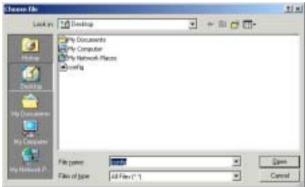
This function enables users to save the current configurations as a file (i.e. **config.dat**) To load configuration from a file, enter the file name or click **Browse...** to find the file from your computer.

Save Settings to File: Click SAVE.. to save the current configuration to file.



When prompted the upper left screen, select "**Save this file to disk**", and the upper right screen will prompt you a dialog box to enter the file name and the file location.

Load Settings From File: Click **Browse...** if you want to load a pre-saved file, enter the file name with the correct path and then click on **Upload**. Or click **Browse...** to select the file.



Reset: Click to restore the default configuration.

Password

For secure reason, it is recommended that you set the account to access the web server of this Access Point. Leaving the user name and password blank will disable the protection. The login screen prompts immediately once you finish setting the account and password. Remember your user name and password for you will be asked to enter them every time you access the web server of this Access Point.

Y	WLAN Access Point		
	Status Wireless TCP/IP Other Darste Erinner Several Settler Termini Lor		
Fir the advantation is first time login; it is oblight necessioned to set your user name and passened for security mase	Password Satup User Name: New Password: Confirmed Password:		
	Apply Change Reset		

User Name	Enter your new user name to access the web server. User
	name can be up to 30 characters long. User name can contain
	letter, number and space. It is case sensitive.
New Password	Set your new password. Password can be up to 30 characters
	long. Password can contain letter, number and space. It is case
	sensitive.
Confirm Password	Re-enter the new password for confirmation.
Apply Change	Press to save the new settings on the screen.
Reset	Press to discard the data you have entered since last time you
	press Apply Change.