TEW-510APB

108Mbps 802.11a+g Wireless Access Point

User's Guide





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1. Introduction

Thank you for purchasing your 108Mbps 802.11a/g Wireless Access Point.

This user guide will assist you with the installation procedure.

The package you have received should contain the following items:

- Wireless 802.11ag AP
- Quick Installation Guide
- User Manual CD-ROM
- Dual Diversity Antennas
- External Power Adapter (5V, 2.5A)
- RJ-45 Network Cable

Note: if anything is missing, please contact your vendor

2. Safety Notification

Your Wireless AP should be placed in a safe and secure location. To ensure proper operation, please keep the unit away from water and other damaging elements. Please read the user manual thoroughly before you install the device. The device should only be repaired by authorized and qualified personnel.

- Please do not try to open or repair the device yourself.
- Do not place the device in a damp or humid location, i.e. a bathroom.
- The device should be placed in a sheltered and non-slip location within a temperature range of +5 to +40 Celsius degree.
- Please do not expose the device to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.

3. Hardware Installation

Front Panel

The front panel provides LED's for device status. Refer to the following table for the meaning of each feature.



Power	The Power LED lights up and will keep while the AP is powered on. When the AP goes through its self- diagnostic mode during every 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.
11g	The 11g LED flashes when there is a successful Wireless-G connection.
Ethernet	The Ethernet LED lights up when Ethernet port of AP was connected to LAN. When the LED is flashing that indicates the network activity over that port.

Rear Panel

The rear panel features 1 Ethernet port, Reset button and Power port. Refer to the following table for the meaning of each feature.



RESET Button	The RESET button can restore device to factory default settings by press this button for approx. 10 seconds during device power on status.
Ethernet	The port connects the AP to your networked PCs and other Ethernet network devices.
Power	The POWER port is where you will connect the power adapter.

AP Default Settings

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	
DHCP Server	Enabled	

Hardware Installation for Connection to Your local network

- 1. Power off your network devices.
- 2. Locate an optimum location for the AP. The best place for the AP is usually at the center of your wireless network, with line of sight to all of your wireless devices.
- 3. Adjust the antennas. Normally, the higher location of your AP will get better the performance.
- 4. Using a standard Ethernet network cable, connect the AP's Internet port to your broadband modem.
- 5. Connect your network PCs or Ethernet devices to the AP's LAN ports using standard Ethernet network cabling.
- 6. Connect the AC power adapter to the AP's Power port. Then connect the other end to an electrical outlet. Only use the power adapter supplied with the AP. Use of a different adapter may cause product damage.
- 7. The Hardware installation is completed, please refer to the following content for AP configuration.

4. How to Configuring the Dual Band AP

TURN ON POWER SUPPLY

Quick power cycle would cause system corruption. When power on, be careful not to shut down in about 5 seconds, because data is writing to the flash.

START UP & LOGIN

In order to configure the Wireless 11ag AP, you must use web browser and manually input http://**192.168.1.250** into the Address box and press Enter. The Main Page will appear.

2 1	1AG A	P - Mic	rosoft In	terne	t Expl	orer		
File	Edit	View	Favorites	Tool	s He	lp		
G	Back	• 6) - 🔀	2		🔎 Searc	th 🤺 I	Favorites
Addre	ess 🙋	http://:	192.168.1.	250				
	Conn	ect to	192.168	.1.25	0		?	×
	-					G	K	
	11A0	5 AP						
	User	name:	9	3			~	
	Pass	word:	-	••••				
				Remer	nber m	y password		
				ſ	Ok		Cancel	

In order to configure the Wireless 11ag AP, you must input the password into the **Password** box and leave blank on the **User Name** box. The default password is "**admin**".

Once you have logged-in as administrator, it is a good idea to change the administrator password to ensure a secure protection to the Wireless 11ag AP. The Security Settings section described later in this manual describes how to change the password.

Once you have input the correct password and logged-in, the screen will change to the Setup page screen.

4.1 Setup – 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 following screen contains all of the AP's basic setup functions.

	Setup	Wireless	Administration	Status	
reless A+G	Network Setup				
Network Setup					
Identity	Device Name: Firmware Version:	1.0 - Jun 9 2005, 10:	:04:50		
Local Area Network	Primary Address Se	election			
	O Dynamic				
	 Static IP 				
	IP Address:	192	2 168 1 250		
	Subnet Mas	k: 255	5 255 255 0		
	Default Gate	way Address: 0	0.0.0		

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 **Cancel** to cancel your changes. For additional information, click **Help**.

4.2 Wireless – 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, lif 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.

SGHZ 2.49Hz	Setup	Wireless	Administration	Status	
Wireless A+G	Wireless Settings	Wireless Mode	Wireless MAC Filter	Wireless Security	Advanced Wireless Settings
Wireless Settings	In this page you car	n configure 802.11a	and 802.11g wireless net	work settings.	
	Enable L2 isolation:				
Wireless-A Settings					
	Mode:	C Disable (• Enable		
	Turbo Mode:	802.11a	•		
	SSID:	wlan-a			
	Broadcast SSID:				
	Channel:	Auto (DFS)	•		
Wireless-B/G Settings					
	Mode:	C Disable	Enable		
	Radio Policy:	b/g mixed	•		
	SSID:	wlan-g			
	Broadcast SSID:				
	Channel:	2437MHz (C	hannel 6) 💌		
	Apply Cano	el 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**.

4.3 Wireless – 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

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.

50HZ 2.49Hz	Setup	Wireless	Administration	Status	
Wireless A+G	vVireless Settings	Wireless Mode	Wireless MAC Filter	Wireless Security	Advanced Wireless Settings
Wireless Mode Settings	In this page you can co	onfigure 802.11a a	nd 802.11g wireless netw	vork mode settings.	
Wireless-A Settings	© Access Point	WDS links - Re 0:0:0:0:0:0:0 0:0:0:0:0:0 0:0:0:0:0:0 0:0:0:0:00	mote APs' MAC Address: 00 00 00		
	C Repeater C Wireless Client	Settings for R Remote AP's S3 Remote AP's M/ Wireless Secur	tepeater/Cilent Mode SID: Wlan-a. AC Address: ity Settings: only Suppor	"WEP with Pre-shared	key" encryption for repeater/client mode.
		Site Survey	Configure it	at Wireless Security p	age
Wireless-B/G Settings	• Access Point	WDS links - Re 00:00:00:00:00 00:00:00:00:00 00:00:00:00:00 00:00:00:00:00 00:00:00:00:00	mote APs' MAC Address: 00 00 00 00		
	C Repeater C Wireless Client	Settings for R Remote AP's S3 Remote AP's M. Wireless Secur Site Survey	Repeater/Cilent Mode SID: wlan-g AC Address: only Suppor Configure it	t "WEP with Pre-shared at Wireless Security p	key" encryption for repeater/client mode. age
	Apply Cancel	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**.

User's Guide

4.4 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.

5GHZ 2.49Hz	Setup	Wireless	Administration	Status	
Wireless A+G	Wireless Settings	Wireless Mode	Wireless MAC Filter	Wireless Security	Advanced Wireless Settings
Access Control List (ACL)	Grant or deny acces	ss to individual clients	s.		
Wireless-A Settings	Access Control Li	st Mode: Enable	•		
	Default Access:	eject			
	Specific Clients				
		MAC Address		ACL Type	3d ACL
Wireless-B/G Settings	Access Control Li	st Mode: Enable	•		
	Default Access:	aiact			
	Specific Clients				
		MAC Address		ACL Type	
				A	Hd ACL
	Apply Cance	l 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**.

4.5 Wireless – 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**, **128-bit or 152-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.

5GHZ 2.49Hz	Setup	Wireless	Administration	Status	
Wireless A+G	Wireless Settings	Wireless Mode	Wireless MAC Filter	Wireless Security	Advanced Wireless Settings
Wireless Security Settings					
Wireless-A Settings	Security Mode:	Disable 💌			
Wireless-B/G Settings	Security Mode:	Disable 💌			
	Apply Cancel	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**.

4.6 Wireless – 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**.

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)**.

Transmission Power: This option provides the AP's RF output 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**.

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**.

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.

SGHZ 2.49Hz	Setup	Wireless	Administration	Status				
Wireless A+G	Wireless Settings	Wireless Mode	Wireless MAC Filter	Wireless Security	Advanced Wireless Settings			
Advanced Wireless								
Wireless-A Settings	Authentication Type	0	Open Syst	Open System (Default) 💌				
	Transmission Rate:		best 💌					
	Transmission Powe	r:	Full	•				
	Antenna Select:		Diversity	•				
	ACK Timeout:		48 (0	48 (Default: 48, Range: 0 ~ 372)				
	Beacon Interval:		100 _{(De}	efault: 100 Milliseconds,	Range: 20 ~ 1000)			
	DTIM Interval:		1 (Default: 1, Range: 1 ~ 16384)					
	Fragmentation Thre	shold:	2346 (Default: 2346, Range: 256 ~ 2346)					
	RTS/CTS Threshold:		2346 (Default: 2346, Range: 256 ~ 2346)					
Wireless-B/G Settings	Authentication Type	¢	Open System (Default) 💌					
	Transmission Rate:		best 💌					
	Transmission Powe	r:	Full	Full				
	Antenna Select:		Diversity	Diversity 💌				
	ACK Timeout:		48 (Default: 48, Range: 0 ~ 372)					
	Beacon Interval:		100 (Default: 100 Milliseconds, Range: 20 ~ 1000)					
	DTIM Interval:		1 (Default: 1, Range: 1 ~ 16384)					
	Fragmentation Threa	shold:	2346 (Default: 2346, Range: 256 ~ 2346)					
	RTS/CTS Threshold		2346 (De	efault: 2346, Range: 0 ~	2346)			
	Short Preamble:		C Disable	• Enable				
	Allow 2.4GHz 54Mb	ps Stations Only:	 Disable 	C Enable				
	RTS/CTS Protection	Mode:	Auto 💌	1				
	RTS/CTS Protection	Rate:	11 Mbps	•				
	RTS/CTS Protection	Туре:	CTS-on	V ORTS-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**.

4.7 Administration – Management

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

Management

User Name: The login username, default value is blank (null). **Password:** The login password, default value is **admin. 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.)

5GHz 2.49Hz	Setup	Wireless	Administration	Status	
Wireless A+G	Management	Reboot AP	Firmware U	odate	Factory Defaults
Managemen	t				
	UserName: Password: Re-enter to Confirm:			***** *****	
	Enable Telnet:			v	
	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**.

4.8 Administration – Reboot AP

AP Reboot: Click this button to initialize this device.

		-				
59HZ 2.49Hz	Setup	Wireless	Administration	Status		_
Wireless A+G	Management	Reboot AP	Firmware Upd	ate	Factory Defaults	
AP Reboo	t					
	Reboot AP					

4.9 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.

50HZ 2.49Hz	Setup	Wireless	Administration	Status		
Wireless A+G	Management	Reboot AP	Firmware Upd	ate	Factory Defaults	
Firmware Update						
	Please Select a File t	o Upgrade:	Br	owse		
				y gi auc		
					0%	
	Warning: Upgrad button.	ling firmware may t	ake a few minutes, p	lease don't turn off	the power or press the reset	
	Upgrade must NC)T be interrupted !!				
	Cancel					

4.10 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.

SGHZ 2.49Hz	Setup	Wireless	Administration	Status		
Wireless A+G	Management	Reboot AP	Firmware Upd	ate	Factory Defaults	
Factory Defaults						
	Restore Fact	ory Defaults				

4.11 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.

SGHZ 2.49Hz	Setup	Wireless	Administration	Status			
Wireless A+G	Local Network	Wirele	ss Network	Wirele	ss Statistics		
Network Setup							
Identity	Device Name: Firmware Version: *	1.0 - Jun 9 2005, 14:	22:10				
Local Area Network	8						
	Local MAC Address:	00:90:4B:DA:	E7:95				
	Connection Type:	Static IP					
	IP Address:	192.168.1.25	נ				
	Subnet Mask:	255.255.255.	נ				
	Default Gateway Ad	dress: 0.0.0.0					

4.12 Status – Wireless Network

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

Wireless Settings

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.

SGHZ 2.49Hz	Setup	Wireless	Administration	Status	
Wireless A+G	Local Network	vvire	less Network	Wireless Statistics	
Wireless Settings	802.11a and 802.11	g wireless network :	settings are shown as the	following.	
	L2 isolation:	Dissble			
		DISUDIC			
Wireless-A Settings					
	MAC Address:	00:90:4B:DA:E7	7:93		
	Mode:	Enable			
	Turbo Mode:	802.11a			
	SSID:	wlan-a			
	Broadcast SSID:	Enable			
	Channel:	Auto (DFS)			
Wireless-B/G Settings					
	MAC Address:	00:90:4B:DA:E7	7:94		
	Mode:	Enable			
	Radio Policy:	b/g mixed			
	SSID:	wlan-g			
	Broadcast SSID:	Enable			
	Channel:	2437MHz (Char	nnel 6)		

4.13 Status – Wireless Statistics

SGHZ 2.49Hz	Setup	Wireless	Administration	Status		
Wireless A+G	Local Network	Wireless Network		Wirele	ss Statistics	
Wireless Statistics	This shows the Access Point and the stations that are currently part of the BSS.					
Wireless-A	Wireless-A 5GHz Statistics					
	ID	MAC #	ddress	State		
	AP	<u>00:90:4E</u>	9:DA:E7:93	ир		
Wireless-B\G	2.4GHz Statistics					
	ID	MAC #	ddress	State		
	AP	<u>00:90:4E</u>	<u>):DA:E7:94</u>	ир		

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

5. Troubleshooting – Q & A

1. I'm trying to log on the AP's Web configuration page, but I do not see the login screen.

Answer:

- 1. Please make sure the IP address that you input on address field of IE browser is correct.
- 2. Make sure the physical layer connection is established. If you are using wired to connect this AP, check the relevant LAN LED whether is lit or not.
- 3. On Dos Prompt screen, using "ping " command to probe this AP, check if you got reply from it. Command: ping < Destination IP address >
- 4. If you have any TCP/IP setting problem, please refer to the Quick Installation Guide.

2. I forgot my password, how to log on this AP for configuration?

Answer:

- 1. Reset the AP to factory default by pressing the Reset button for 10 seconds then releasing it.
- 2. Log on the AP's web management by http://192.168.1.250 Leave username blank and enter the default password **admin**.

3. How to set the AP to factory default setting.

Answer:

- 1. Reset the AP to factory default by pressing the Reset button for 10 seconds then releasing it.
- 2. After release the Reset button, the AP will get back all setting to factory default and reboot system.
- 3. While the reboot is complete, log on the AP's web management by default IP http://192.168.1.250 Leave username blank and enter the default password **admin**.

4. My AP will not turn on. No LED's light up.

Answer:

Usually it is caused by the power is not connected. Please double check the power adapter if it connected to your AP and the other side is plugged into the power outlet. If it still has no power, please contact your reseller.

5. I can't access the AP from a wireless client.

Answer:

Generally to make the wireless client unable to access AP with following possible issues:

- 1. Settings are not the same among each wireless adapter.
- 2. Out of range.
- 3. IP Address is not set correctly.

Resolution:

Make sure that mode, SSID, Channel and encryption settings are set the same on each wireless adapter. Make sure that your computer is within range and free from any strong electrical devices that may cause interference.

6. What devices cause interference?

Answer:

The AP is operating in the unlicensed 2.4 GHz band and 5GHz. Other devices operates in this frequency range that may cause interference include microwave ovens and 2.4 GHz portable phones. PCs or analog cellular phones do not operate at 2.4 GHz and do not cause interference. Proper placement of access points usually eliminates interference problems created by other 2.4 GHz devices.

Limited Warranty

TRENDware warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

Wireless Products – 3 Years Warranty AC/DC Power Adapter, Cooling Fan, and Power Supply -- 1 Year Warranty

If a product does not operate as warranted above during the applicable warranty period, TRENDware shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item, or refund to customer the purchase price paid for the defective product. All products that are replaced will become the property of TRENDware. Replacement products may be new or reconditioned.

TRENDware shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDware pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

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Governing Law: This Limited Warranty shall be governed by the laws of the state of California.

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.

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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

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

If this device is going to be operated in 5.15 ~ 5.25GHz frequency range, then it is restricted in indoor environment only.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

TRENDware declares that TEW-510APB (FCC ID: RYK-WL7800A) is limited in CH1~CH11 for 2.4 GHz by specified firmware controlled in U.S.A.



Product Warranty Registration

Please take a moment to register your product online. Go to TRENDware's website at http://www.TRENDNET.com

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