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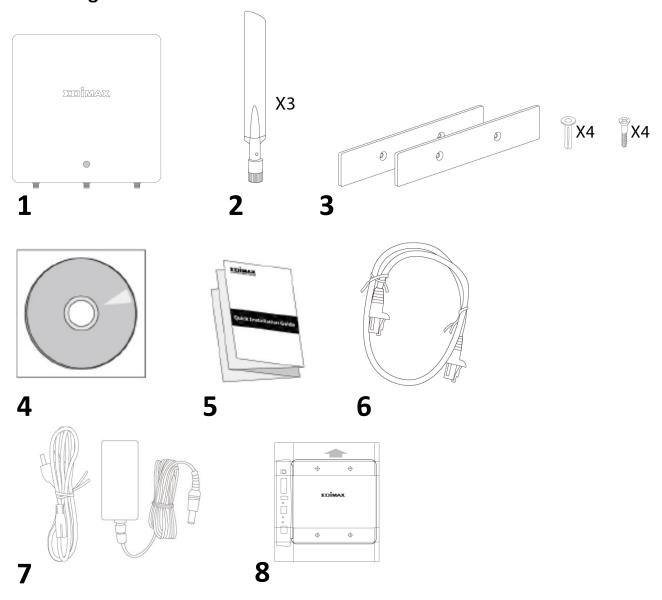
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I. Product Information

I-1. Package Contents



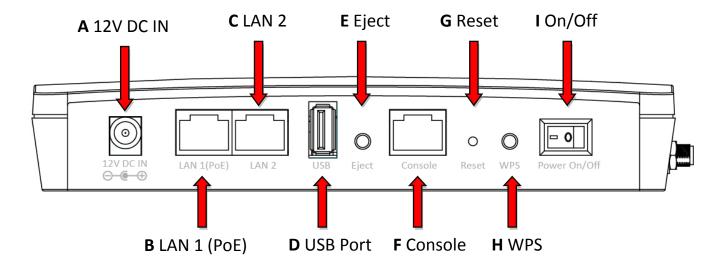
- **1.** WAP1750 Access Point
- **2.** Antennas x 3
- **3.** Magnetic Wall Mount x 2 & Screws
- **4.** CD

- **5.** Quick Installation Guide
- **6.** Ethernet Cable
- **7.** Power Adapter
- **8.** Magnetic Wall Mount Screw Template

I-2. System Requirements

- Existing cable/DSL modem & router
- Computer with web browser for access point configuration

I-3. Hardware Overview



- **A.** 12V DC port to connect the power adapter
- **B.** LAN port with Power over Ethernet (PoE) IN
- C. LAN port with Power over Ethernet (PoE) OUT
- **D.** USB Port for system log, save/restore settings
- E. Eject an attached USB device
- **F.** Connect a management console
- **G.** Reset the access point to factory default settings
- H. Wi-Fi Protected Setup (WPS) button
- **I.** Switch the access point on/off

I-4. LED Status

LED Status	Description
Off	The access point is off.
Blue	The access point is on.
Amber	The access point is starting up.

I-5. Reset

If you experience problems with your access point, you can reset the device back to its factory settings. This resets all settings back to default.

1. Press and hold the reset button on the access point for at least 10 seconds than release the button.



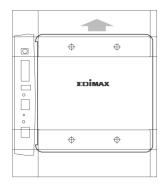
You may need to use a pin or similar sharp object to push the reset button.

2. Wait for the access point to restart. The access point is ready for setup when the LED is blue.

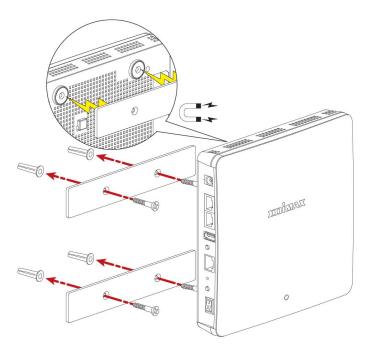
I-6. Magnetic Wall Mount

The access point includes a magnetic wall mount which requires some assembly.

1. Use the included magnetic wall mount screw template to identify and mark correct screw positions on your selected wall.



2. Attach the two magnetic wall mount strips to your wall using the included screws, as shown below.



3. Press the back of your access point firmly against the two wall mounted magnetic strips, with the access point's Edimax logo in the correct, upright orientation as displayed above.



Ensure your access point is securely attached to the magnetic strips.

I-7. Console

The access point can be configured via the "Console" port located on the access point's side panel using a terminal-emulation program (e.g. HyperTerminal).

Use the following configuration settings for terminal-emulation programs:

Baud Rate	115200
Data	8 bit
Parity	None
Stop	1 bit
Flow Control	None

I-8. Safety Information

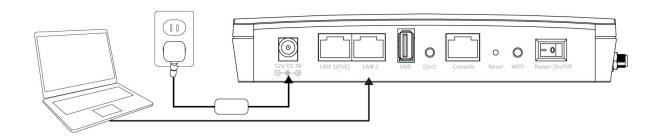
In order to ensure the safe operation of the device and its users, please read and act in accordance with the following safety instructions.

- 1. The access point is designed for indoor use only; do not place the access point outdoors.
- 2. Do not place the access point in or near hot/humid places, such as a kitchen or bathroom.
- 3. Do not pull any connected cable with force; carefully disconnect it from the access point.
- 4. Handle the access point with care. Accidental damage will void the warranty of the access point.
- 5. The device contains small parts which are a danger to small children under 3 years old. Please keep the access point out of reach of children.
- 6. Do not place the access point on paper, cloth, or other flammable materials. The access point may become hot during use.
- 7. There are no user-serviceable parts inside the access point. If you experience problems with the access point, please contact your dealer of purchase and ask for help.
- 8. The access point is an electrical device and as such, if it becomes wet for any reason, do not attempt to touch it without switching the power supply off. Contact an experienced electrical technician for further help.
- 9. If you smell burning or see smoke coming from the access point or power adapter, then disconnect the access point and power adapter immediately, as far as it is safely possible to do so. Call your dealer of purchase for help.

II. Quick Setup

II-1. Initial Setup

- **1.** Connect the access point to a computer via Ethernet cable.
- **2.** Connect the power adapter to the access point's 12V DC port and plug the power adapter into a power supply using the included cable.



- **3.** Please wait a moment for the access point to start up. The access point is ready when the LED is **blue**.
- **4.** Set your computer's IP address to **192.168.2.x** where **x** is a number in the range **3 100**. If you are unsure how to do this, please refer to **V-1**. **Configuring your IP address** for more information.



Please ensure there are no other active network connections on your computer (disconnect Wi-Fi connections and Ethernet cables).

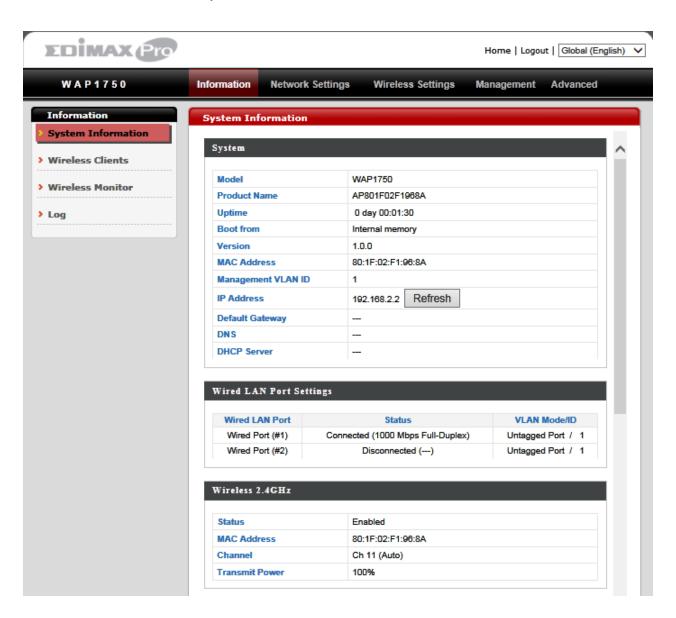
5. Enter the access point's default IP address **192.168.2.2** into the URL bar of a web browser.



6. You will be prompted for a username and password. Enter the default username "admin" and the default password "1234".



7. You will arrive the "System Information" screen shown below.



8. Next, please follow the instructions below in **II-2. Basic Settings** to configure the access point's basic settings.



For more advanced configurations, please refer to IV. Browser Based Configuration Interface.

II-2. **Basic Settings**

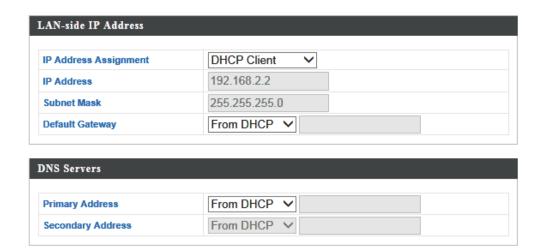
The instructions below will help you to configure the following basic settings of the access point:

- LAN IP Address
- 2.4GHz & 5GHz SSID & Security
- **Administrator Name & Password**
- Time & Date



It is recommended you configure these settings before using the access point.

1. To change the access point's LAN IP address, go to "Network Settings" > "LAN-side IP Address" and you will see the screen below.



2. Enter the IP address settings you wish to use for your access point. You can use a dynamic (DHCP) or static IP address, depending on your network environment. Click "Apply" to save the changes and wait a few moments for the access point to reload.

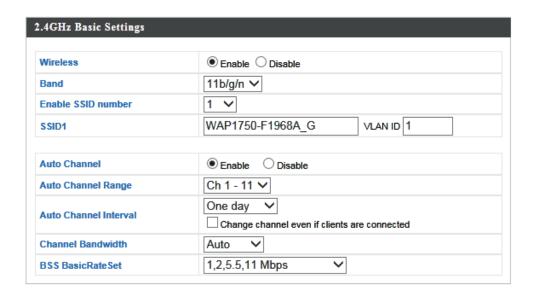


When you change your access point's IP address, you need to use the new IP address to access the browser based configuration interface instead of the default IP 192.168.2.2.

3. To change the SSID of your access point's 2.4GHz wireless network(s), go to "Wireless Setting" > "2.4GHz 11bgn" > "Basic". Enter the new SSID for your 2.4GHz wireless network in the "SSID1" field and click "Apply".



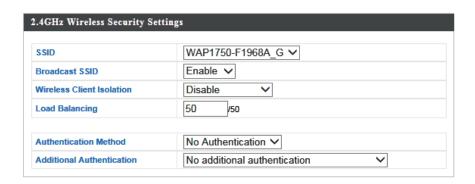
To utilize multiple 2.4GHz SSIDs, open the drop down menu labelled "Enable SSID number" and select how many SSIDs you require. Then enter a new SSID in the corresponding numbered fields below, before clicking "Apply".



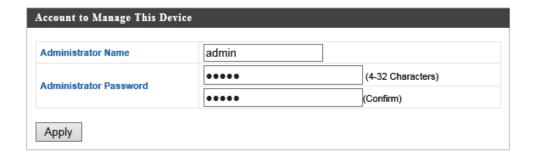
4. To configure the security of your access point's 2.4GHz wireless network(s), go to "Wireless Setting" > "2.4GHz 11bgn" > "Security". Select an "Authentication Method" and enter a "Pre-shared Key" or "Encryption Key" depending on your choice, then click "Apply".



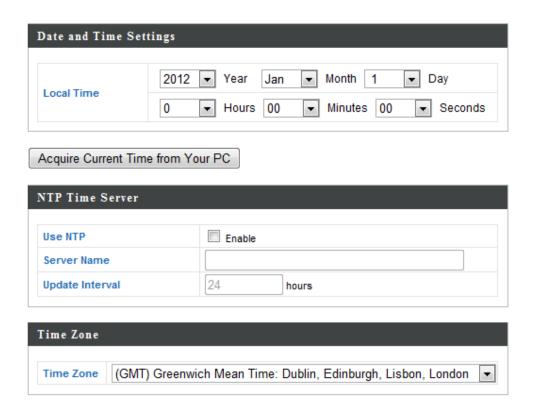
If using multiple SSIDs, specify which SSID to configure using the 🌯 "SSID" drop down menu.



- 5. Go to "Wireless Setting" > "5GHz 11ac 11an" and repeat steps 3 & 4 for the access point's 5GHz wireless network.
- 6. To change the administrator name and password for the browser based configuration interface, go to "Management" > "Admin".



- 7. Complete the "Administrator Name" and "Administrator Password" fields and click "Apply".
- **8.** To set the correct time for your access point, go to "Management" > "Date and Time".



9. Set the correct time and time zone for your access point using the drop down menus. The access point also supports NTP (Network Time Protocol) so alternatively you can enter the host name or IP address of a time server. Click "Apply" when you are finished.



You can use the "Acquire Current Time from your PC" button if you wish to set the access point to the same time as your PC.

10. The basic settings of your access point are now configured. Please refer to **III.** Hardware Installation for guidance on connecting your access point to a router or PoE switch.

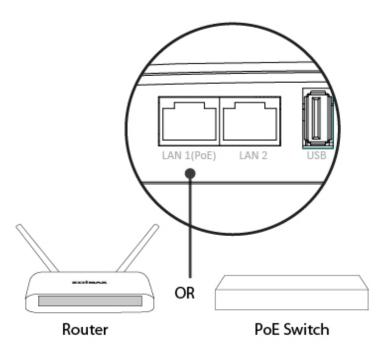
II-3. Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup is a simple way to establish connections between WPS compatible devices. You can use the WPS button to establish a connection between the access point and a WPS-compatible wireless device/client.

- 1. Press and hold the WPS/Reset button on the side of the access point for 2 seconds.
- **2.** Within two minutes, activate WPS on your WPS-compatible wireless device. Please check the documentation for your wireless device for information regarding its WPS function.
- **3.** The devices will establish a connection.

III. Hardware Installation

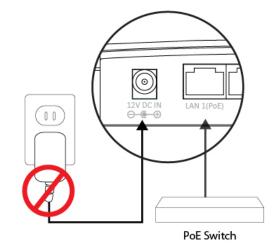
Connect a router or PoE switch to the access point's LAN 1 port using an Ethernet cable. PoE switches must be connected to the access point's LAN 1 port.



- **2.** If you are using a router, then connect the power adapter to the access point's 12V DC port and plug the power adapter into a power supply.
- **3.** If you are using a PoE (Power over Ethernet) switch then it is not necessary to use the included power adapter, the access point will be powered by the PoE switch.



Do not use the power adapter if you are using a PoE switch.



4. Connect a local network client or switch to the access point's **LAN 2** port as required.

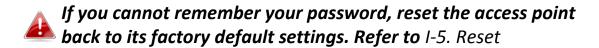


The access point's LAN 2 port can support another powered device(PD).

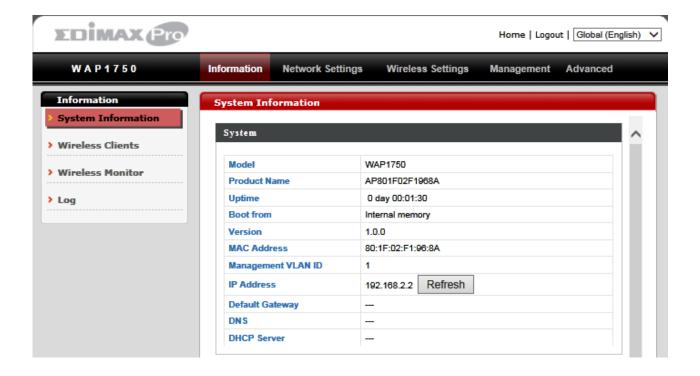
IV. Browser Based Configuration Interface

The browser-based configuration interface enables you to configure the access point's advanced features. The WAP1750 features a range of advanced functions such as MAC filtering, MAC RADIUS authentication, VLAN configurations, up to 32 SSIDs and many more. To access the browser based configuration interface:

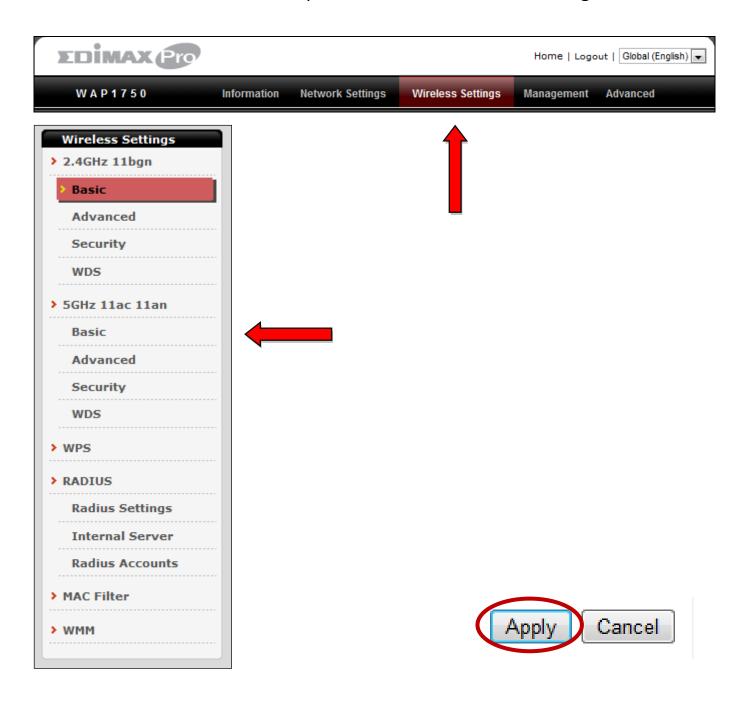
- 1. Connect a computer to your access point using an Ethernet cable.
- **2.** Enter your access point's IP address in the URL bar of a web browser. The access point's default IP address is **192.168.2.2.**
- **3.** You will be prompted for a username and password. The default username is "admin" and the default password is "1234", though it was recommended that you change the password during setup (see **II-2. Basic Settings**).



4. You will arrive at the "System Information" screen shown below.



5. Use the menu across the top and down the left side to navigate.



6. Click "Apply" to save changes and reload the access point, or "Cancel" to cancel changes.

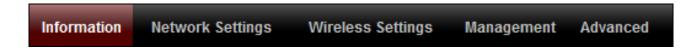


Please wait a few seconds for the access point to reload after you 📤 "Apply" changes, as shown below.

Configuration is complete. Reloading now... Please wait for 23 seconds.

7. Please refer to the following chapters for full descriptions of the browser based configuration interface features.

IV-1. Information





Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-1-1. System Information

System Information

The "System Information" page displays basic system information about the access point.

•	
Model	WAP1750
Product Name	AP801F02F1968A
Uptime	0 day 02:12:47
Boot from	Internal memory
Version	1.0.1
MAC Address	80:1F:02:F1:96:8A
Management VLAN ID	1
IP Address	192.168.10.155 Refresh
Default Gateway	192.168.10.254
DNS	192.168.1.12
D.110	192.168.1.2
DHCP Server	192.168.10.253

			Wired LAN Port Settings
	VLAN Mode/ID	Status	Wired LAN Port
1	Untagged Port / 1	Disconnected ()	Wired Port (#1)
1	Untagged Port / 1	Connected (1000 Mbps Full-Duplex)	Wired Port (#2)
		. ,	. ,

Wireless 2.4GHz				
Status	Enabled			
MAC Address	80:1F:02:F1:96:8A			
Channel	Ch 2 (Auto)			
Transmit Power	100%			

Wireless 2.4GHz /SSID					
SSID	Authentication Method	Encryption Type	VLAN ID	Additional Authentication	Wireless Client Isolation
WAP1750-G	No Authentication	No Encryption	1	No additional authentication	Disabled

Wireless 2.4GHz /WDS Disabled					
MAC Address	MAC Address Encryption Type VLAN Mode/ID				
	No WDS entries.				

Wireless 5GHz				
Status	Enabled			
MAC Address	80:1F:02:F1:96:8B			
Channel	Ch 149 + 153 + 157 + 161 (Auto)			
Transmit Power	100%			

Wireless 5GHz /SSID						
SSID	Authentication Method	Encryption Type	VLAN ID	Additional Authentication	Wireless Client Isolation	
WAP1750-AC	WPA2-PSK	AES	1	No additional authentication	Disabled	

ncryption Type VLAN Mode/ID	
lo WDS entries.	
	No WDS entries.

Refresh

System	
Model	Displays the model number of the access point.
Product Name	Displays the product name for reference, which consists of "AP" plus the MAC address.
Uptime	Displays the total time since the device was turned on.
Boot From	Displays information for the booted hardware, booted from either USB or internal memory.
Version	Displays the firmware version.
MAC Address	Displays the access point's MAC address.
Management VLAN ID	Displays the management VLAN ID.
IP Address	Displays the IP address of this device. Click "Refresh" to update this value.
Default	Displays the IP address of the default
Gateway	gateway.
DNS	IP address of DNS (Domain Name Server)
DHCP Server	IP address of DHCP Server.

Wired LAN Port Settings		
Wired LAN Port	Specifies which LAN port (1 or 2).	
Status	Displays the status of the specified LAN port	
	(connected or disconnected).	
VLAN Mode/ID	Displays the VLAN mode (tagged or untagged)	
	and VLAN ID for the specified LAN port. See	
	IV-2-3. VLAN	

Wireless 2.4GHz (5GHz)		
Status	Displays the status of the 2.4GHz or 5GHz	
	wireless (enabled or disabled).	
MAC Address	Displays the access point's MAC address.	
Channel	Displays the channel number the specified	
	wireless frequency is using for broadcast.	
Transmit Power	Displays the wireless radio transmit power	
	level as a percentage.	

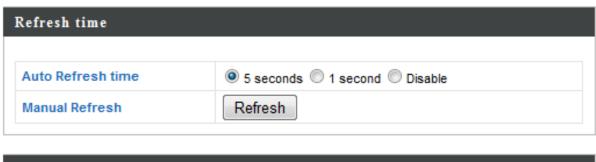
Wireless 2.4GHZ (5GHz) / SSID		
SSID	Displays the SSID name(s) for the specified	
	frequency.	
Authentication	Displays the authentication method for the	
Method	specified SSID. See IV-3. Wireless Settings	
Encryption Type	Displays the encryption type for the specified	
	SSID. See IV-3. Wireless Settings	
VLAN ID	Displays the VLAN ID for the specified SSID.	
	See IV-2-3. VLAN	
Additional	Displays the additional authentication type for	
Authentication	the specified SSID. See IV-3. Wireless Settings	
Wireless Client	Displays whether wireless client isolation is in	
Isolation	use for the specified SSID. See IV-2-3. VLAN	

Wireless 2.4GHZ (5GHz) / WDS Status	
MAC Address	Displays the peer access point's MAC address.
Encryption Type	Displays the encryption type for the specified
	WDS. See IV-3-1-4. WDS
VLAN Mode/ID	Displays the VLAN ID for the specified WDS.
	See IV-3-1-4. WDS

Refresh Click to refresh all information.	
---	--

IV-1-2. Wireless Clients

The "Wireless Clients" page displays information about all wireless clients connected to the access point on the 2.4GHz or 5GHz frequency.



2.4GH	.4GHz WLAN Client Table					
SSID	MAC Address	Tx Rx	Signal (%)	Connected Time	Idle Time	Vendor
	No wireless client					

5GHz WLA	AN Client Table						
SSID	MAC Address	Тх	Rx	Signal (%)	Connected Time	Idle Time	Vendor
WAP1750-2 24466_A	00:1C:BF:10:CB:68	1.2 MBytes	7.2 MBytes	67	2 hours 26 min 12 secs	0	Intel Corporate

Refresh time	
Auto Refresh Time	Select a time interval for the client table list to
	automatically refresh.
Manual Refresh	Click refresh to manually refresh the client
	table.

2.4GHz (5GHz) WLAN Client Table	
SSID	Displays the SSID which the client is
	connected to.
MAC Address	Displays the MAC address of the client.
Tx	Displays the total data packets transmitted by
	the specified client.
Rx	Displays the total data packets received by
	the specified client.
Signal (%)	Displays the wireless signal strength for the

	specified client.
Connected Time	Displays the total time the wireless client has
	been connected to the access point.
Idle Time	Client idle time is the time for which the client
	has not transmitted any data packets i.e. is
	idle.
Vendor	The vendor of the client's wireless adapter is
	displayed here.

IV-1-3. Wireless Monitor

Wireless Monitor is a tool built into the access point to scan and monitor the surrounding wireless environment. Select a frequency and click "Scan" to display a list of all SSIDs within range along with relevant details for each SSID.





Wire	eless 5G	Hz				
Ch	SSID	MAC Address	Security	Signal (%)	Туре	Vendor
You can click Scan button to start.						

Wireless Monitor			
Site Survey Select which frequency (or both) to scan, and			
	click "Scan" to begin.		
Channel Survey After a scan is complete, click "Export" to sa			
Result	the results to local storage.		

Site Survey Results			
Ch			
	specified SSID.		
SSID	Displays the SSID identified by the scan.		
MAC Address	Displays the MAC address of the wireless		
	router/access point for the specified SSID.		
Security	Displays the authentication/encryption type		
	of the specified SSID.		

Signal (%)	Displays the current signal strength of the SSID.
Туре	Displays the 802.11 wireless networking standard(s) of the specified SSID.
Vendor	Displays the vendor of the wireless router/access point for the specified SSID.

IV-1-4. Log

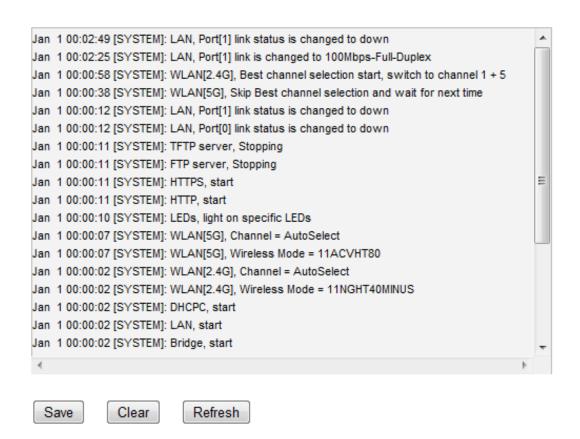
System Log

The system log displays system operation information such as up time and connection

processes. This information is useful for network administrators.



When the log is full, old entries are overwritten.



Save Click to save the log as a file on your I	
	computer.
Clear	Clear all log entries.
Refresh	Refresh the current log.

The following information/events are recorded by the log:

◆ USB

Mount & unmount

Wireless Client

Connected & disconnected Key exchange success & fail

♦ Authentication

Authentication fail or successful.

♦ Association

Success or fail

♦ WPS

M1 - M8 messages WPS success

Change Settings

System Boot

Displays current model name

◆ NTP Client

Wired Link

LAN Port link status and speed status

Proxy ARP

Proxy ARP module start & stop

Bridge

Bridge start & stop.

♦ SNMP

SNMP server start & stop.

♦ HTTP

HTTP start & stop.

♦ HTTPS

HTTPS start & stop.

◆ SSH

SSH-client server start & stop.

♦ Telnet

Telnet-client server start or stop.

♦ WLAN (2.4G)

WLAN (2.4G) channel status and country/region status

♦ WLAN (5G)

WLAN (5G) channel status and country/region status

◆ ADT

IV-2. Network Settings



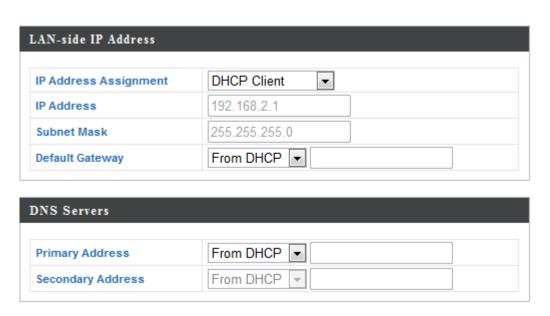


Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-2-1. LAN-Side IP Address

The "LAN-side IP address" page allows you to configure your access point on your Local Area Network (LAN). You can enable the access point to dynamically receive an IP address from your router's DHCP server or you can specify a static IP address for your access point, as well as configure DNS servers.





LAN-side IP Address				
IP Address Select "DHCP Client" for your access point t				
Assignment be assigned a dynamic IP address from your				
	router's DHCP server, or select "Static IP" to			
	manually specify a static/fixed IP address for			
	your access point (below).			
IP Address Specify the IP address here. This IP address				
	will be assigned to your access point and will			

	replace the default IP address.
Subnet Mask	Specify a subnet mask. The default value is
	255.255.255.0
Default Gateway	For DHCP users, select "From DHCP" to get
	default gateway from your DHCP server or
	"User-Defined" to enter a gateway manually.
	For static IP users, the default value is blank.

DHCP users can select to get DNS servers' IP address from DHCP or manually enter a value. For static IP users, the default value is blank.

DNS Servers				
Primary Address	DHCP users can select "From DHCP" to get primary DNS server's IP address from DHCP or "User-Defined" to manually enter a value. For static IP users, the default value is blank.			
Secondary Address	Users can manually enter a value when DNS server's primary address is set to "User-Defined".			

IV-2-2. LAN Port

The "LAN Port" page allows you to configure the settings for your access point's two wired LAN (Ethernet) ports.

Wired LAN Port Settings					
Wired LAN Port	Enable	Speed & Duplex		Flow Control	802.3az
Wired Port (#1)	Enabled -	Auto	•	Enabled -	Enabled 🔻
Wired Port (#2)	Enabled 🔻	Auto	•	Enabled 🔻	Enabled 🔻

Wired LAN Port Settings		
Wired LAN Port Identifies LAN port 1 or 2.		
Enable	Enable/disable specified LAN port.	
Speed & Duplex	Select a speed & duplex type for specified LAN port, or use the "Auto" value. LAN ports can operate up to 1000Mbps and full-duplex enables simultaneous data packets transfer/receive.	
Flow Control	Enable/disable flow control. Flow control can pause new session request until current data processing is complete, in order to avoid device overloads under heavy traffic.	
802.3az	Enable/disable 802.3az. 802.3az is an Energy Efficient Ethernet feature which disables unused interfaces to reduce power usage.	

IV-2-3. **VLAN**



The "VLAN" (Virtual Local Area Network) enables you to configure VLAN settings. A VLAN is a local area network which maps

workstations virtually instead of physically and allows you to group together or isolate users from each other. VLAN IDs 1 – 4094 are supported.



$oldsymbol{4}$ VLAN IDs in the range 1 – 4094 are supported.

VLAN Interface		
MC	MI AN Mada	MIANIP
Wired LAN Port	VLAN Mode	VLAN ID
Wired Port (#1)	Untagged Port ∨	1
Wired Port (#2)	Untagged Port ✓	1
Wireless 2.4GHz	VLAN Mode	VLAN ID
SSID [WAP1750-F1968A_G]	Untagged Port	1
Wireless 5GHz	VLAN Mode	VLAN ID
SSID [WAP1750-F1968A_A]	Untagged Port	1

Management VLAN		
VLAN ID	1	

VLAN Interface	
Wired LAN	Identifies LAN port 1 or 2 and wireless SSIDs
Port/Wireless	(2.4GHz or 5GHz).
VLAN Mode	Select "Tagged Port" or "Untagged Port" for
	specified LAN interface.
VLAN ID	Set a VLAN ID for specified interface, if
	"Untagged Port" is selected.

Management VLAN	
	Specify the VLAN ID of the management VLAN.
	Only the hosts belonging to the same VLAN can
	manage the device.

IV-3. Wireless Settings

Information Network Settings Wireless Settings Management Advanced



Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-3-1. 2.4GHz 11bgn



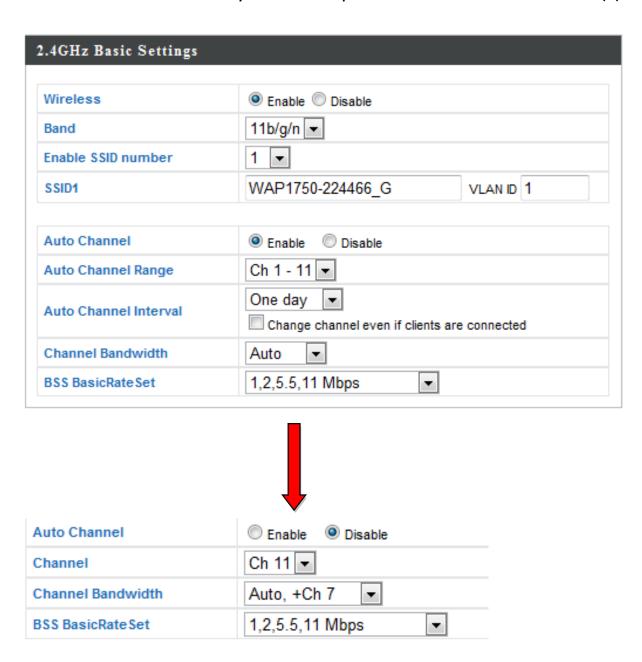
The "2.4GHz 11bgn" menu allows you to view and configure information for your access point's 2.4GHz wireless network across four

categories: Basic, Advanced, Security and WDS.

IV-3-1-1. Basic



The "Basic" screen displays basic settings for your access point's 2.4GHz Wi-Fi network (s).



2.4GHz Basic Settings	
Wireless	Enable or disable the access point's 2.4GHz wireless radio. When disabled, no 2.4GHz SSIDs will be active.
Band	Select the wireless standard used for the access point. Combinations of 802.11b, 802.11g & 802.11n can be selected.
Enable SSID Number	Select how many SSIDs to enable for the 2.4GHz frequency from the drop down menu. A maximum of 16 can be enabled.
SSID#	Enter the SSID name for the specified SSID (up to 16). The SSID can consist of any combination of up to 32 alphanumeric characters.
VLAN ID	Specify a VLAN ID for each SSID.
Auto Channel	Enable/disable auto channel selection. Auto channel selection will automatically set the wireless channel for the access point's 2.4GHz frequency based on availability and potential interference. When disabled, select a channel manually as shown in the next table.
Auto Channel Range	Select a range from which the auto channel setting (above) will choose a channel.
Auto Channel Interval	Specify a frequency for how often the auto channel setting will check/reassign the wireless channel. Check/uncheck the "Change channel even if clients are connected" box according to your preference.
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower performance but less interference), 40MHz (higher performance but potentially higher interference) or Auto (automatically select based on interference level).
BSS BasicRateSet	Set a Basic Service Set (BSS) rate: this is a series of rates to control communication frames for wireless clients.

When auto channel is disabled, select a wireless channel manually:

Channel	Select a wireless channel from 1 – 11 (1-13).
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower
	performance but less interference), 40MHz
	(higher performance but potentially higher
	interference) or Auto (automatically select
	based on interference level).
BSS BasicRate Set	Set a Basic Service Set (BSS) rate: this is a
	series of rates to control communication
	frames for wireless clients.

IV-3-1-2. Advanced

These settings are for experienced users only. Please do not change any of the values on this page unless you are already familiar with these functions.



Changing these settings can adversely affect the performance of your access point.

Contention Slot	Short V	
Preamble Type	Short ✓	
Guard Interval	Short GI	~
802.11g Protection	Enable	Obisable
802.11n Protection	Enable	Obisable
DTIM Period	1	(1-255)
RTS Threshold	2347	(1-2347)
Fragment Threshold	2346	(256–2346)
Multicast Rate	Auto	~
Tx Power	100% 🗸	
Beacon Interval	100	(40-1000 ms)
Station idle timeout	60	(30-65535 seconds)

2.4GHz Advanced Settings	
Contention Slot	Select "Short" or "Long" – this value is used for contention windows in WMM (see IV-3-6. WMM).
Preamble Type	Set the wireless radio preamble type. The preamble type in 802.11 based wireless communication defines the length of the CRC (Cyclic Redundancy Check) block for communication between the access point and roaming wireless adapters. The default value is "Short Preamble".
Guard Interval	Set the guard interval. A shorter interval can improve performance.

802.11g Protection	Enable/disable 802.11g protection, which
OUZ.IIE FIOLECTION	j
	increases reliability but reduces bandwidth
	(clients will send Request to Send (RTS) to
	access point, and access point will broadcast
	Clear to Send (CTS), before a packet is sent
	from client.)
802.11n Protection	Enable/disable 802.11n protection, which
	increases reliability but reduces bandwidth
	(clients will send Request to Send (RTS) to
	access point, and access point will broadcast
	Clear to Send (CTS), before a packet is sent
	from client.)
DTIM Period	Set the DTIM (delivery traffic indication
	message) period value of the wireless radio.
	The default value is 1.
RTS Threshold	Set the RTS threshold of the wireless radio. The
	default value is 2347.
Fragment	Set the fragment threshold of the wireless
Threshold	radio. The default value is 2346.
Multicast Rate	Set the transfer rate for multicast packets or
	use the "Auto" setting.
Tx Power	Set the power output of the wireless radio. You
	may not require 100% output power. Setting a
	lower power output can enhance security since
	potentially malicious/unknown users in distant
	areas will not be able to access your signal.
Beacon Interval	Set the beacon interval of the wireless radio.
	The default value is 100.
Station idle	Set the interval for keepalive messages from
timeout	the access point to a wireless client to verify if
	the station is still alive/active.

IV-3-1-3. Security

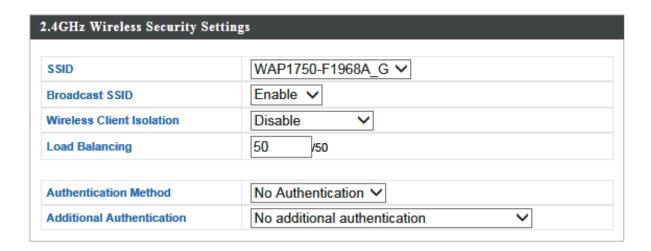
The access point provides various security options (wireless data encryption). When data is encrypted, information transmitted wirelessly cannot be read by anyone who does not know the correct encryption key.



It's essential to configure wireless security in order to prevent unauthorised access to your network.



Select hard-to-guess passwords which include combinations of numbers, letters and symbols, and change your password regularly.



2.4GHz Wireless Secu	ırity Settings
SSID Selection	Select which SSID to configure security settings for.
Broadcast SSID	Enable or disable SSID broadcast. When enabled, the SSID will be visible to clients as an available Wi-Fi network. When disabled, the SSID will not be visible as an available Wi-Fi network to clients — clients must manually enter the SSID in order to connect. A hidden (disabled) SSID is typically more secure than a visible (enabled) SSID.
Wireless Client Isolation	Enable or disable wireless client isolation. Wireless client isolation prevents clients connected to the access point from communicating with each other and improves security. Typically, this function is useful for corporate environments or public hot spots and can prevent brute force attacks on clients' usernames and passwords.
Load Balancing	Load balancing limits the number of wireless clients connected to an SSID. Set a load balancing value (maximum 50).
Authentication Method	Select an authentication method from the drop down menu and refer to the information below appropriate for your method.
Additional Authentication	Select an additional authentication method from the drop down menu and refer to the information below (IV-3-1-3-6.) appropriate for your method.

IV-3-1-3-1. No Authentication

Authentication is disabled and no password/key is required to connect to the access point.



Disabling wireless authentication is not recommended. When disabled, anybody within range can connect to your device's SSID.

IV-3-1-3-2. WEP

WEP (Wired Equivalent Privacy) is a basic encryption type. For a higher level of security consider using WPA encryption.

Key Length	Select 64-bit or 128-bit. 128-bit is more secure than 64-bit and is recommended.
Key Type	Choose from "ASCII" (any alphanumerical character 0-9, a-z and A-Z) or "Hex" (any characters from 0-9, a-f and A-F).
Default Key	Select which encryption key (1 – 4 below) is the default key. For security purposes, you can set up to four keys (below) and change which is the default key.
Encryption Key 1 – 4	Enter your encryption key/password according to the format you selected above.

IV-3-1-3-3. IEEE802.1x/EAP

Key Length	Select 64-bit or 128-bit. 128-bit is more secure
	than 64-bit and is recommended.

IV-3-1-3-4. WPA-PSK

WPA-PSK is a secure wireless encryption type with strong data protection and user authentication, utilizing 128-bit encryption keys.

WPA Type	Select from WPA/WPA2 Mixed Mode-PSK, WPA2 or WPA only. WPA2 is safer than WPA only, but not supported by all wireless clients. Please make sure your wireless client supports
Encryption	your selection. Select "TKIP/AES Mixed Mode" or "AES" encryption type.
Key Renewal Interval	Specify a frequency for key renewal in minutes.
Pre-Shared Key	Choose from "Passphrase" (8 – 63

Туре	alphanumeric characters) or "Hex" (up to 64 characters from 0-9, a-f and A-F).
Pre-Shared Key	Please enter a security key/password according to the format you selected above.

IV-3-1-3-5. WPA-EAP

WPA Type	Select from WPA/WPA2 Mixed Mode-EAP, WPA2-EAP or WPA-EAP.
Encryption	Select "TKIP/AES Mixed Mode" or "AES" encryption type.
Key Renewal Interval	Specify a frequency for key renewal in minutes.



WPA-EAP must be disabled to use MAC-RADIUS authentication.

IV-3-1-3-6. Additional Authentication

Additional wireless authentication methods can also be used:

MAC Address Filter

Restrict wireless clients access based on MAC address specified in the MAC filter table.



A See IV-3-5.MAC Filter **to configure MAC filtering.**

MAC Filter & MAC-RADIUS Authentication

Restrict wireless clients access using both of the above MAC filtering & RADIUS authentication methods.

MAC-RADIUS Authentication

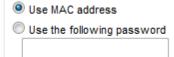
Restrict wireless clients access based on MAC address via a RADIUS server, or password authentication via a RADIUS server.



See IV-3-4.RADIUS to configure RADIUS servers.



WPS must be disabled to use MAC-RADIUS authentication. See IV-3-3. for WPS settings.



MAC RADIUS Password

Select whether to use MAC address or password authentication via RADIUS server. If you select "Use the following password", enter the password in the field below. The password should match the "Shared Secret" used in IV-3-4. RADIUS.

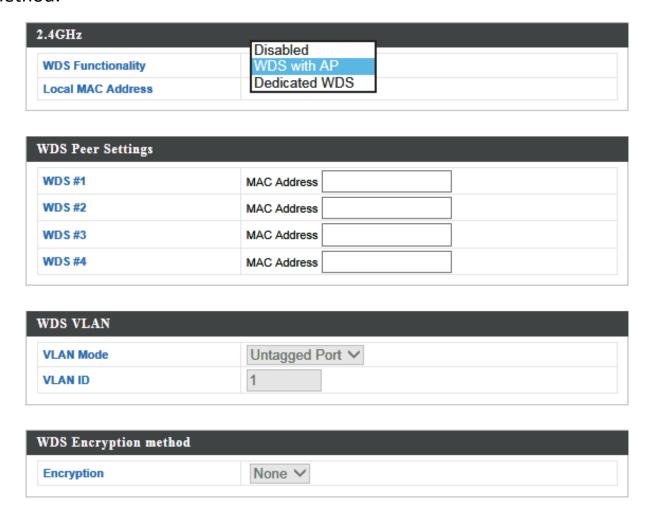
IV-3-1-4. WDS

Wireless Distribution System (WDS) can WDS bridge/repeat access points together in an extended network. WDS settings can be configured as shown below.



When using WDS, configure the IP address of each access point to be in the same subnet and ensure there is only one active DHCP server among connected access points, preferably on the WAN side.

WDS must be configured on each access point, using correct MAC addresses. All access points should use the same wireless channel and encryption method.



2.4GHz	
WDS Functionality	Select "WDS with AP" to use WDS with access point or "WDS Dedicated Mode" to use WDS and also block communication with regular wireless clients. When WDS is used, each access point should be configured with corresponding MAC addresses, wireless channel and wireless encryption method.
Local MAC Address	Displays the MAC address of your access point.

WDS Peer Settings	
WDS#	Enter the MAC address for up to four other
	WDS devices you wish to connect.

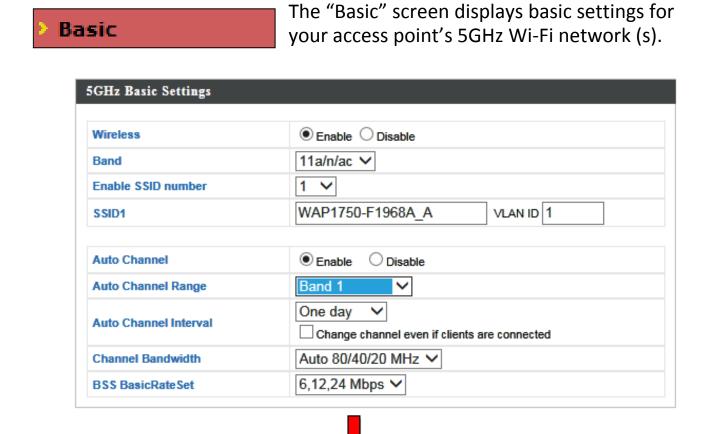
WDS VLAN	
VLAN Mode	Specify the WDS VLAN mode to "Untagged Port" or "Tagged Port".
VLAN ID	Specify the WDS VLAN ID when "Untagged Port" is selected above.

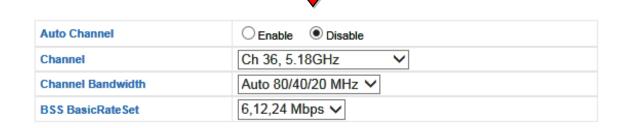
WDS Encryption method	
Encryption	Select whether to use "None" or "AES" encryption and enter a pre-shared key for AES
	consisting of 8-63 alphanumeric characters.

IV-3-2. 5GHz 11ac 11an

The "5GHz 11ac 11an" menu allows you to view and configure information for your access point's 5GHz wireless network across four categories: Basic, Advanced, Security and WDS.

IV-3-2-1. Basic





5GHz Basic Settings	
Wireless	Enable or disable the access point's 5GHz wireless radio. When disabled, no 5GHz SSIDs will be active.
Band	Select the wireless standard used for the access point. Combinations of 802.11a, 802.11n & 802.11ac can be selected.
Enable SSID Number	Select how many SSIDs to enable for the 5GHz frequency from the drop down menu. A maximum of 16 can be enabled.
SSID#	Enter the SSID name for the specified SSID (up to 16). The SSID can consist of any combination of up to 32 alphanumeric characters.
VLAN ID	Specify a VLAN ID for each SSID.
Auto Channel	Enable/disable auto channel selection. Auto channel selection will automatically set the wireless channel for the access point's 5GHz frequency based on availability and potential interference. When disabled, select a channel manually as shown in the next table.
Auto Channel Range	Select a range from which the auto channel setting (above) will choose a channel.
Auto Channel Interval	Specify a frequency for how often the auto channel setting will check/reassign the wireless channel. Check/uncheck the "Change channel even if clients are connected" box according to your preference.
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower performance but less interference), Auto 40/20MHz or Auto 80/40/20MHz (automatically select based on interference level).
BSS BasicRate Set	Set a Basic Service Set (BSS) rate: this is a series of rates to control communication frames for wireless clients.

When auto channel is disabled, select a wireless channel manually:

Channel	Select a wireless channel.
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower performance but less interference), Auto 40/20MHz or Auto 80/40/20MHz (automatically select based on interference level).
BSS BasicRate Set	Set a Basic Service Set (BSS) rate: this is a
bbb basichate set	series of rates to control communication frames for wireless clients.

IV-3-2-2. Advanced

These settings are for experienced users only. Please do not change any of the values on this page unless you are already familiar with these functions.



Changing these settings can adversely affect the performance of your access point.

Guard Interval	Short GI Y	~
802.11n Protection	Enable	Obisable
DTIM Period	1	(1-255)
RTS Threshold	2347	(1-2347)
Fragment Threshold	2346	(256–2346)
Multicast Rate	Auto	~
Tx Power	100% 🗸	
Beacon Interval	100	(40-1000 ms)
Station idle timeout	60	(30-65535 seconds)

5GHz Advanced Setti	ngs
Guard Interval	Set the guard interval. A shorter interval can
	improve performance.
802.11n Protection	Enable/disable 802.11n protection, which increases reliability but reduces bandwidth (clients will send Request to Send (RTS) to access point, and access point will broadcast Clear to Send (CTS), before a packet is sent
DTIM Period	from client.) Set the DTIM (delivery traffic indication
Dillyirenou	message) period value of the wireless radio. The default value is 1.
RTS Threshold	Set the RTS threshold of the wireless radio. The default value is 2347.
Fragment Threshold	Set the fragment threshold of the wireless radio. The default value is 2346.

Multicast Rate	Set the transfer rate for multicast packets or use the "Auto" setting.
Tx Power	Set the power output of the wireless radio. You may not require 100% output power. Setting a lower power output can enhance security since potentially malicious/unknown users in distant areas will not be able to access your signal.
Beacon Interval	Set the beacon interval of the wireless radio. The default value is 100.
Station idle timeout	Set the interval for keepalive messages from the access point to a wireless client to verify if the station is still alive/active.

IV-3-2-3. Security

Security

The access point provides various security options (wireless data encryption). When data is encrypted, information transmitted wirelessly

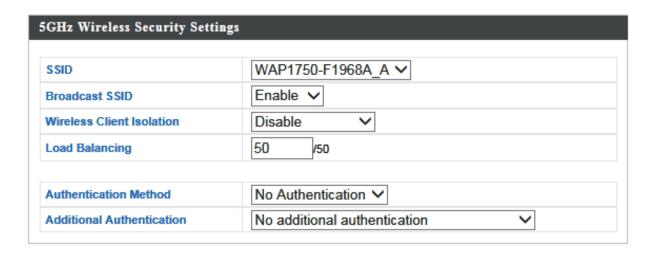
cannot be read by anyone who does not know the correct encryption key.



It's essential to configure wireless security in order to prevent unauthorised access to your network.



Select hard-to-guess passwords which include combinations of numbers, letters and symbols, and change your password regularly.



5GHz Wireless Security Settings	
SSID Selection	Select which SSID to configure security settings
	for.
Broadcast SSID	Enable or disable SSID broadcast. When
	enabled, the SSID will be visible to clients as an
	available Wi-Fi network. When disabled, the
	SSID will not be visible as an available Wi-Fi
	network to clients – clients must manually
	enter the SSID in order to connect. A hidden
	(disabled) SSID is typically more secure than a
	visible (enabled) SSID.

Wireless Client	Enable or disable wireless client isolation.
Isolation	Wireless client isolation prevents clients
	connected to the access point from
	communicating with each other and improves
	security. Typically, this function is useful for
	corporate environments or public hot spots
	and can prevent brute force attacks on clients'
	usernames and passwords.
Load Balancing	Load balancing limits the number of wireless
	clients connected to an SSID. Set a load
	balancing value (maximum 50).
Authentication	Select an authentication method from the drop
Method	down menu and refer to the information
	below appropriate for your method.
Additional	Select an additional authentication method
Authentication	from the drop down menu and refer to the
	information below appropriate for your
	method.

Please refer back to **IV-3-1-3. Security** for more information on authentication and additional authentication types.

IV-3-2-4. WDS



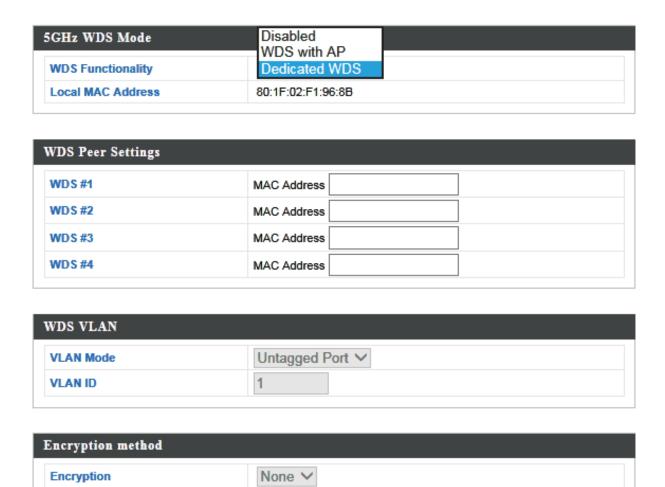
Wireless Distribution System (WDS) can bridge/repeat access points together in an extended network. WDS settings can be

configured as shown below.



When using WDS, configure the IP address of each access point to be in the same subnet and ensure there is only one active DHCP server among connected access points, preferably on the WAN side.

WDS must be configured on each access point, using correct MAC addresses. All access points should use the same wireless channel and encryption method.



5GHz WDS Mode	
WDS Functionality	Select "WDS with AP" to use WDS with access point or "WDS Dedicated Mode" to use WDS and also block communication with regular wireless clients. When WDS is used, each access point should be configured with corresponding MAC addresses, wireless channel and wireless encryption method.
Local MAC Address	Displays the MAC address of your access point.

WDS Peer Settings	
WDS#	Enter the MAC address for up to four other
	WDA devices you wish to connect.

WDS VLAN	
VLAN Mode	Specify the WDS VLAN mode to "Untagged Port" or "Tagged Port".
VLAN ID	Specify the WDS VLAN ID when "Untagged Port" is selected above.

WDS Encryption	
Encryption	Select whether to use "None" or "AES" encryption and enter a pre-shared key for AES with 8-63 alphanumeric characters.

IV-3-3. WPS

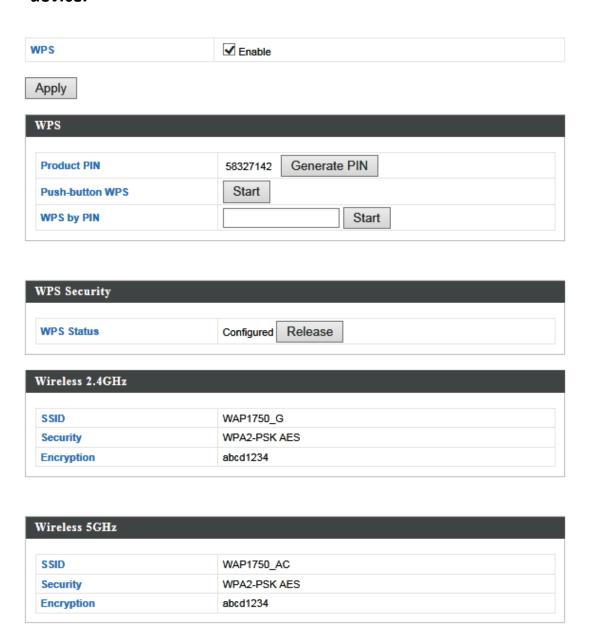
WPS

Wi-Fi Protected Setup is a simple way to establish connections between WPS

compatible devices. WPS can be activated on compatible devices by pushing a WPS button on the device or from within the device's firmware/configuration interface (known as PBC or "Push Button Configuration"). When WPS is activated in the correct manner and at the correct time for two compatible devices, they will automatically connect. "PIN code WPS" is a variation of PBC which includes the additional use of a PIN code between the two devices for verification.



Please refer to manufacturer's instructions for your other WPS device.



WPS	Check/uncheck this box to enable/disable WPS functionality. WPS must be disabled when
	using MAC-RADIUS authentication (see IV-3-1-3-6 & IV-3-4).

Product PIN	Displays the WPS PIN code of the device, used for PIN code WPS. You will be required to enter this PIN code into another WPS device for PIN code WPS. Click "Generate PIN" to generate a new WPS PIN code.
Push-Button WPS	Click "Start" to activate WPS on the access point for approximately 2 minutes. This has the same effect as physically pushing the access point's WPS button.
WPS by PIN	Enter the PIN code of another WPS device and click "Start" to attempt to establish a WPS connection for approximately 2 minutes.

WPS Status	WPS security status is displayed here. Click
	"Release" to clear the existing status.

IV-3-4. RADIUS

The RADIUS sub menu allows you to configure the access point's RADIUS server settings, categorized into three submenus: RADIUS settings, Internal Server and RADIUS accounts.

A RADIUS server provides user-based authentication to improve security and offer wireless client control – users can be authenticated before gaining access to a network.

The access point can utilize both a primary and secondary (backup) RADIUS server for each of its wireless frequencies (2.4GHz & 5GHz). External RADIUS servers can be used or the access point's internal RADIUS server can be used.



To use RADIUS servers, go to "Wireless Settings" → "Security" **and select** "MAC RADIUS Authentication" → "Additional Authentication" **and select** "MAC RADIUS Authentication" **(see** IV-3-1-3. & IV-3-2-3).

IV-3-4-1. RADIUS Settings

Radius Settings

Configure the RADIUS server settings for 2.4GHz & 5GHz. Each frequency can use an

internal or external RADIUS server.

	Primary RADIUS Server
RADIUS Type	
RADIUS Server	
Authentication Port	1812
Shared Secret	
Session Timeout	3600 second(s)
Accounting	Enable Disable
Accounting Port	1813
	Secondary RADIUS Server
RADIUS Type	◯ Internal ⊚ External
RADIUS Server	
Authentication Port	1812
Shared Secret	
Session Timeout	3600 second(s)
Accounting	Enable Disable
	1813

RADIUS Type	Select "Internal" to use the access point's built-in RADIUS server or "external" to use an external RADIUS server.
RADIUS Server	Enter the RADIUS server host IP address.
Authentication Port	Set the UDP port used in the authentication protocol of the RADIUS server. Value must be between 1 – 65535.
Shared Secret	Enter a shared secret/password between 1 – 99 characters in length. This should match the "MAC-RADIUS" password used in IV-3-1-3-6 or IV-3-2-3.

Session Timeout	Set a duration of session timeout in seconds between 0 – 86400.
Accounting	Enable or disable RADIUS accounting.
Accounting Port	When accounting is enabled (above), set the UDP port used in the accounting protocol of the RADIUS server. Value must be between 1 – 65535.

IV-3-4-2. Internal Server

The access point features a built-in RADIUS server which can be configured as shown below used when "Internal" is selected for "RADIUS Type" in the "Wireless Settings" → "RADIUS" → "RADIUS Settings" menu.



To use RADIUS servers, go to "Wireless Settings" → "Security" and select "MAC RADIUS Authentication" → "Additional Authentication" and select "MAC RADIUS Authentication" (see IV-3-1-3. & IV-3-2-3).

Internal Server	Enable	
EAP Internal Authentication	PEAP(MS-PEAP)	•
EAP Certificate File Format	PKCS#12(*.pfx/*.p12)	
EAP Certificate File	Upload	
Shared Secret		
Session-Timeout	3600	second(s)
	Reauthenication (RA	DIUS-Request)
Termination-Action	Not-Reauthenication	(Default)
	Not-Send	

Internal Server	Check/uncheck to enable/disable the access point's internal RADIUS server.
EAP Internal Authentication	Select EAP internal authentication type from the drop down menu.

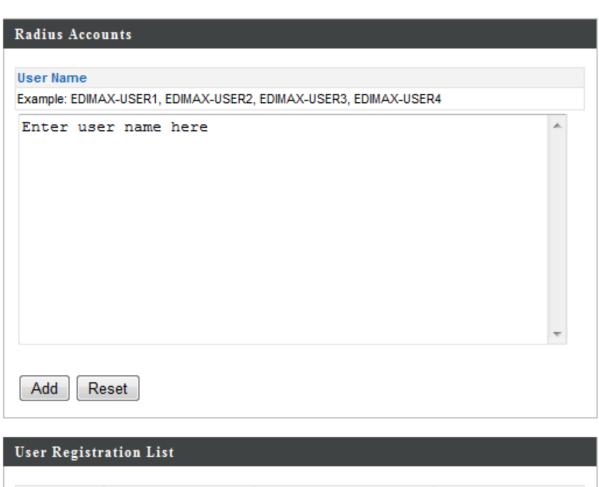
EAP Certificate File Format	Displays the EAP certificate file format: PCK#12(*.pfx/*.p12)
EAP Certificate File	Click "Upload" to open a new window and select the location of an EAP certificate file to use. If no certificate file is uploaded, the internal RADIUS server will use a self-made certificate.
Shared Secret	Enter a shared secret/password for use between the internal RADIUS server and RADIUS client. The shared secret should be 1 – 99 characters in length. This should match the "MAC-RADIUS" password used in IV-3-1-3-6 or IV-3-2-3.
Session Timeout	Set a duration of session timeout in seconds between 0 – 86400.
Termination Action	Select a termination-action attribute: "Reauthentication" sends a RADIUS request to the access point, "Not-Reathentication" sends a default termination-action attribute to the access point, "Not-Send" no termination-action attribute is sent to the access point.

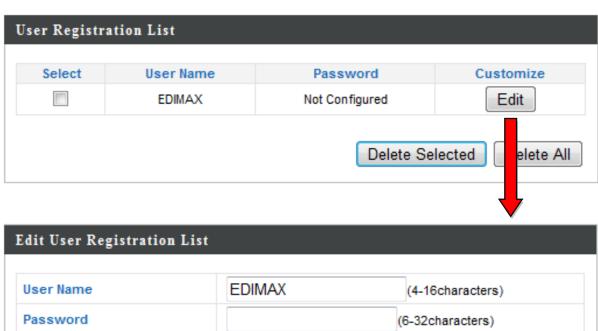
IV-3-4-3. RADIUS Accounts

Radius Accounts

The internal RADIUS server can authenticate up to 256 user accounts. The "RADIUS

Accounts" page allows you to configure and manage users.





User Name	Enter the user names here, separated by	
	commas.	
Add	Click "Add" to add the user to the user registration list.	
Reset	Clear text from the user name box.	

Select	Check the box to select a user.
User Name	Displays the user name.
Password	Displays if specified user name has a password (configured) or not (not configured).
Customize	Click "Edit" to open a new field to set/edit a password for the specified user name (below).

Delete Selected	Delete selected user from the user registration list.
Delete All	Delete all users from the user registration list.

Edit User Registration List

User Name	Existing user name is displayed here and can be edited according to your preference.
Password	Enter or edit a password for the specified user.

IV-3-5. MAC Filter

MAC Filter

Mac filtering is a security feature that can help to prevent unauthorized users from

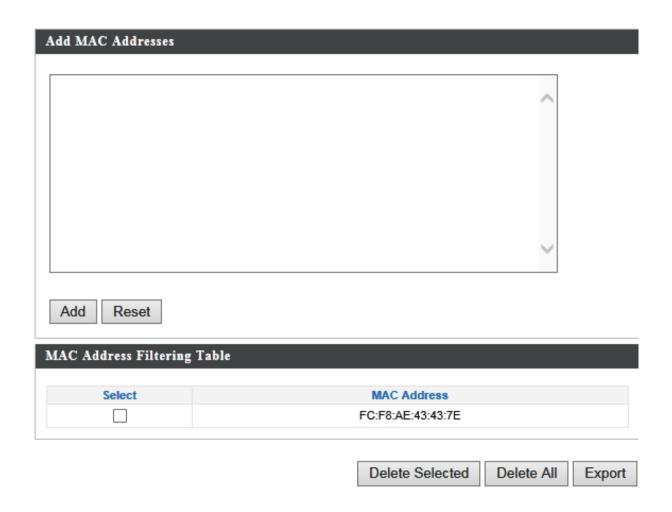
connecting to your access point.

This function allows you to define a list of network devices permitted to connect to the access point. Devices are each identified by their unique MAC address. If a device which is not on the list of permitted MAC addresses attempts to connect to the access point, it will be denied.



To enable MAC filtering, go to "Wireless Settings" → "2.4GHz 11bgn/5GHz 11ac 11an" → "Security" → "Additional Authentication" **and select** "MAC Filter" **(see** IV-3-1-3. & IV-3-2-3**).**

The MAC address filtering table is displayed below:

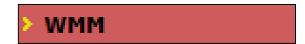


Add MAC Address	Enter a MAC address of computer or network device manually e.g. 'aa-bb-cc-dd-ee-ff' or enter multiple MAC addresses separated with commas, e.g. 'aa-bb-cc-dd-ee-gg'
Add	Click "Add" to add the MAC address to the MAC address filtering table.
Reset	Clear all fields.

MAC address entries will be listed in the "MAC Address Filtering Table". Select an entry using the "Select" checkbox.

Select	Delete selected or all entries from the table.	
MAC Address	The MAC address is listed here.	
Delete Selected	Delete the selected MAC address from the	
	list.	
Delete All	Delete all entries from the MAC address	
	filtering table.	
Export	Click "Export" to save a copy of the MAC	
	filtering table. A new window will pop up for	
	you to select a location to save the file.	

IV-3-6. WMM



Wi-Fi Multimedia (WMM) is a Wi-Fi Alliance interoperability certification based on the IEEE 802.11e standard, which provides

Quality of Service (QoS) features to IEE 802.11 networks. WMM prioritizes traffic according to four categories: background, best effort, video and voice.

	WMM Parai	meters of Acces	s Point	
	CWMin	CWMax	AIFSN	TxOP
Back Ground	4	10	7	0
Best Effort	4	6	3	0
Video	3	4	1	94
Voice	2	3	1	47
	WMM Pa	arameters of Stat	tion	
	CWMin	CWMax	AIFSN	TxOP
Back Ground	4	10	7	0
Best Effort	4	10	3	0
Video	3	4	2	94
	2	3	2	47

Configuring WMM consists of adjusting parameters on queues for different categories of wireless traffic. Traffic is sent to the following queues:

Background	Low	High throughput, non time sensitive bulk	
	Priority	data e.g. FTP	
Best Effort	Medium	Traditional IP data, medium throughput and	
	Priority	delay.	
Video	High	Time sensitive video data with minimum	
	Priority	time delay.	
Voice	High	Time sensitive data such as VoIP and	
	Priority	streaming media with minimum time delay.	

Queues automatically provide minimum transmission delays for video, voice, multimedia and critical applications. The values can further be adjusted manually:

CWMin	Minimum Contention Window (milliseconds): This value is input to the initial random backoff wait time algorithm for retry of a data frame transmission. The backoff wait time will be generated between 0 and this value. If the frame is not sent, the random backoff value is doubled until the value reaches the number defined by CWMax (below). The CWMin value must be lower than the CWMax value. The contention window scheme helps to avoid frame collisions and determine priority of frame transmission. A shorter window has a higher probability (priority) of transmission.
CWMax	Maximum Contention Window (milliseconds): This value is the upper limit to random backoff value doubling (see above).
AIFSN	Arbitration Inter-Frame Space (milliseconds): Specifies additional time between when a channel goes idle and the AP/client sends data frames. Traffic with a lower AIFSN value has a higher priority.
ТхОР	Transmission Opportunity (milliseconds): The maximum interval of time an AP/client can transmit. This makes channel access more efficiently prioritized. A value of 0 means only one frame per transmission. A greater value effects higher priority.

IV-4. Management

Information Network Settings Wireless Settings Management Advanced



Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

IV-4-1. Admin

You can change the password used to login to the browser-based configuration interface here. It is advised to do so for security purposes.



If you change the administrator password, please make a note of the new password. In the event that you forget this password and are unable to login to the browser based configuration interface, see I-5. Reset for how to reset the access point.

Account to Manage This Dev	rice	
Administrator Name	admin	
Administrator Password	••••	(4-32 Characters)
	••••	(Confirm)
Apply		

Product Name	AP801F02F1968A
	✓ нттр
	✓ HTTPS
Management Protocol	✓ TELNET
	□ssн
	SNMP
SNMP Version	v1/v2c ∨
SNMP Get Community	public
SNMP Set Community	private
SNMP Trap	Disabled V
SNMP Trap Community	public
SNMP Trap Manager	

Account to Manage This Device		
Administrator	Set the access point's administrator name.	
Name	This is used to log in to the browser based	
	configuration interface and must be between	
	4-16 alphanumeric characters (case sensitive).	
Administrator	Set the access point's administrator password.	
Password	This is used to log in to the browser based	
	configuration interface and must be between	
	4-32 alphanumeric characters (case sensitive).	

Advanced Settings	
	Edit the product name according to your preference consisting of 1-32 alphanumeric characters. This name is used for reference purposes.

Management Protocol	Check/uncheck the boxes to enable/disable specified management interfaces (see below). When SNMP is enabled, complete the SNMP fields below.
SNMP Version	Select SNMP version appropriate for your SNMP manager.
SNMP Get	Enter an SNMP Get Community name for
Community	verification with the SNMP manager for
	SNMP-GET requests.
SNMP Set	Enter an SNMP Set Community name for
Community	verification with the SNMP manager for
	SNMP-SET requests.
SNMP Trap	Enable or disable SNMP Trap to notify SNMP
	manager of network errors.
SNMP Trap	Enter an SNMP Trap Community name for
Community	verification with the SNMP manager for
	SNMP-TRAP requests.
SNMP Trap	Specify the IP address or sever name (2-128
Manager	alphanumeric characters) of the SNMP
	manager.

HTTP

Internet browser HTTP protocol management interface

HTTPS

Internet browser HTTPS protocol management interface

TELNET

Client terminal with telnet protocol management interface

SSH

Client terminal with SSH protocol version 1 or 2 management interface

SNMP

Simple Network Management Protocol. SNMPv1, v2 & v3 protocol supported. SNMPv2 can be used with community based authentication. SNMPv3 uses user-based security model (USM) architecture.

IV-4-2. Date and Time

You can configure the time zone settings of your access point here. The date and time of the device can be configured manually or can be synchronized with a time server.

Date and Time Settings	
Local Time	2012 ▼ Year Jan ▼ Month 1 ▼ Day 0 ▼ Hours 00 ▼ Minutes 00 ▼ Seconds
Acquire Current	Time from Your PC
NTP Time Serve	r
Use NTP	☐ Enable
Server Name	
Update Interval	24 (Hours)
Γime Zone	

Date and Time Settings	
Local Time	Set the access point's date and time manually
	using the drop down menus.
Acquire Current	Click "Acquire Current Time from Your PC" to
Time from your PC	enter the required values automatically
	according to your computer's current time and
	date.

NTP Time Server	
Use NTP	The access point also supports NTP (Network Time Protocol) for automatic time and date
	setup.
Server Name	Enter the host name or IP address of the time server if you wish.
Update Interval	Specify a frequency (in hours) for the access point to update/synchronize with the NTP server.

Time Zone	
Time Zone	Select the time zone of your country/ region. If your country/region is not listed, please select another country/region whose time zone is the same as yours.

IV-4-3. Syslog Server

Syslog Server

The system log can be sent to a server or to attached USB storage.

Syslog Server Settings		
Transfer Logs	Enable Syslog Server	
Copy Logs to Attached USB Device	Enable	

Syslog Server	
Transfer Logs	Check/uncheck the box to enable/disable the
	use of a syslog server, and enter a host
	name, domain or IP address for the server,
	consisting of up to 128 alphanumeric
	characters.
Copy Logs to	Check/uncheck the box to enable/disable
Attached USB Device	copying logs to attached USB storage.

IV-4-4. I'm Here

The access point features a built-in buzzer which can sound on command using the "I'm

Here" page. This is useful for network administrators and engineers working in complex network environments to locate the access point.





Duration of Sound	Set the duration for which the buzzer will sound when the "Sound Buzzer" button is clicked.
Sound Buzzer	Activate the buzzer sound for the above specified duration of time.

Advanced IV-5.





Screenshots displayed are examples. The information shown on your screen will vary depending on your configuration.

LED Settings IV-5-1.

The access point's LEDs can be manually LED Settings enabled or disabled according to your preference.

ED Settings		
Power LED	On ○ Off	
Diag LED	On ○ Off	

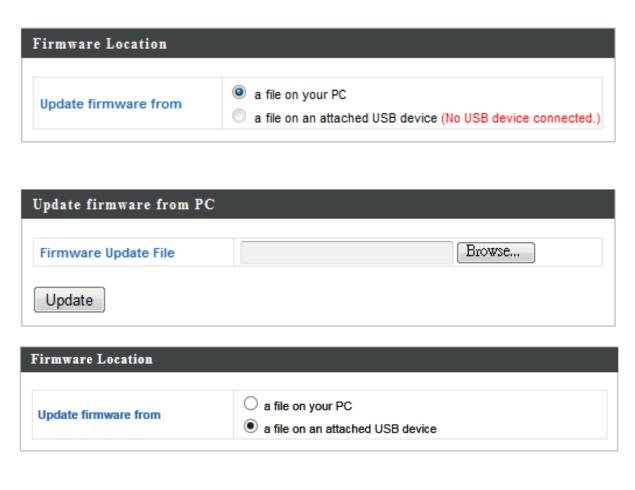
Power LED	Select on or off.
Diag LED	Select on or off.

IV-5-2. Update Firmware

Update Firmware

The "Firmware" page allows you to update the system firmware to a more recent version. Updated firmware versions often

offer increased performance and security, as well as bug fixes. You can download the latest firmware from the Edimax website.





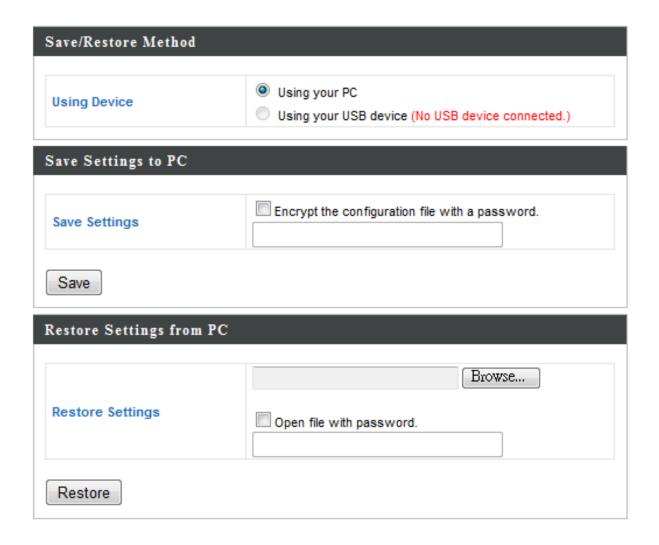


Do not switch off or disconnect the access point during a firmware upgrade, as this could damage the device.

Update Firmware	Select to upload firmware from your local
From	computer or from an attached USB device.
	(You must transfer a firmware file to the USB
	device first.)
Firmware Update File	Click "Browse" to open a new window to
	locate and select the firmware file in your
	computer.
Update	Click "Update" to upload the specified
	firmware file to your access point.

IV-5-3. Save/Restore Settings

Save/Restore SettingsThe access point's "Save/Restore Settings" page enables you to save/backup the access point's current settings as a file to your local computer or a USB device attached to the access point, and restore the access point to previously saved settings.



Save/Restore Method	
Using Device	Using your PC Using your USB device
Save Settings to USB	
Save Settings	Encrypt the configuration file with a password.
Save	
Restore Settings from USB	
Restore Settings	○ EDIMAX_AP801F02F1968A_20140416_00.bin □ Open file with password.
Restore	
Save / Restore Settings	5
Using Device	Select to save the access point's settings to your local computer or to an attached USB device.
Save Settings to USB	
Save Settings	Click "Save" to save settings and a new window will open to specify a location to

9	
Save Settings	Click "Save" to save settings and a new
	window will open to specify a location to
	save the settings file. If saving settings to
	your computer or USB device, you can also
	check the "Encrypt the configuration file with
	a password" box and enter a password to
	protect the file in the field underneath, if you
	wish.

Restore Settings from USB	
Restore Settings	Click the browse button to find a previously saved settings file on your computer or select a settings file from your USB device.

Settings files located on your USB storage will automatically be displayed. Then click "Restore" to replace your current settings. If your settings file is encrypted with a password, check the "Open file with password" box and enter the password in the field underneath.

IV-5-4. Factory Default

responding, then it is recommended that you reboot the device (see IV-5.5) or reset the device back to its factory default settings. You can reset the access point back to its default settings using this feature if the location of the access point is not convenient to access the reset button.

This will restore all settings to factory defaults.

Factory Default

Factory Default	Click "Factory Default" to restore settings to
	the factory default. A pop-up window will
	appear and ask you to confirm.



After resetting to factory defaults, please wait for the access point to reset and restart.

IV-5-5. Reboot

Reboot

If the access point malfunctions or is not responding, then it is recommended that

you reboot the device or reset the access point back to its factory default settings (see **IV-5-4**). You can reboot the access point remotely using this feature.

This will reboot the product. Your settings will not be changed. Click "Reboot" to reboot the product now.

Reboot

Reboot	Click "Reboot" to reboot the device. A
	countdown will indicate the progress of the
	reboot.

V. Appendix

V-1. Configuring your IP address

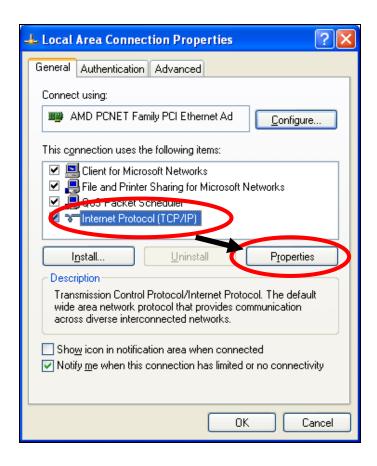
The access point uses the default IP address **192.168.2.2**. In order to access the browser based configuration interface, you need to modify the IP address of your computer to be in the same IP address subnet e.g. **192.168.2.x** (x = 3 - 254).

The procedure for modifying your IP address varies across different operating systems; please follow the guide appropriate for your operating system.

In the following examples we use the IP address 192.168.2.10 though you can use any IP address in the range 192.168.2.x (x = 3 - 254).

V-1-1. Windows XP

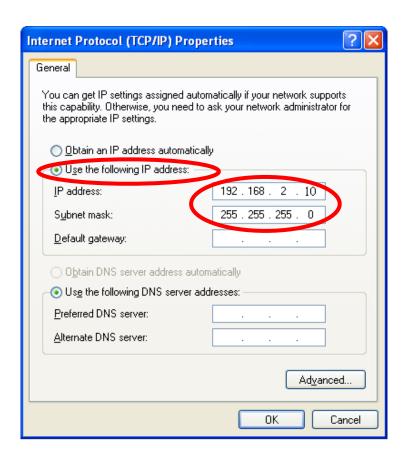
1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel". Double-click the "Network and Internet Connections" icon, click "Network Connections", and then double-click "Local Area Connection". The "Local Area Connection Status" window will then appear, click "Properties".



2. Select "Use the following IP address", then input the following values:

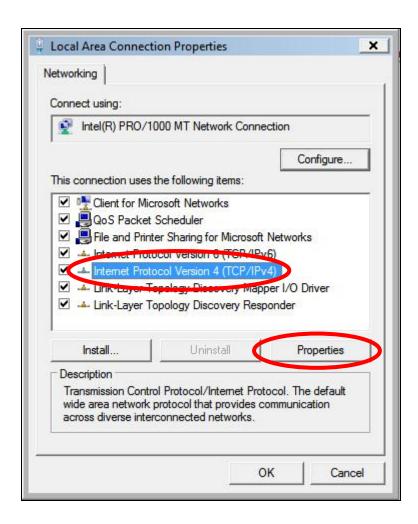
IP address: 192.168.2.10 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



V-1-2. Windows Vista

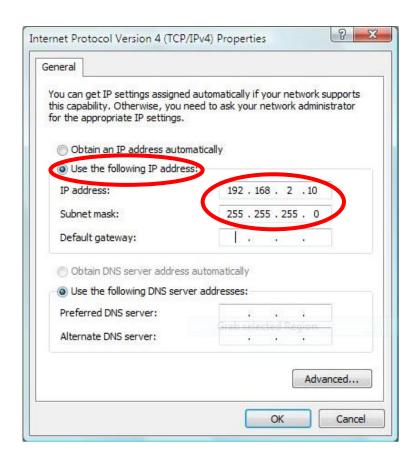
1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel". Click "View Network Status and Tasks", then click "Manage Network Connections". Right-click "Local Area Network", then select "Properties". The "Local Area Connection Properties" window will then appear, select "Internet Protocol Version 4 (TCP / IPv4)", and then click "Properties".



2. Select "Use the following IP address", then input the following values:

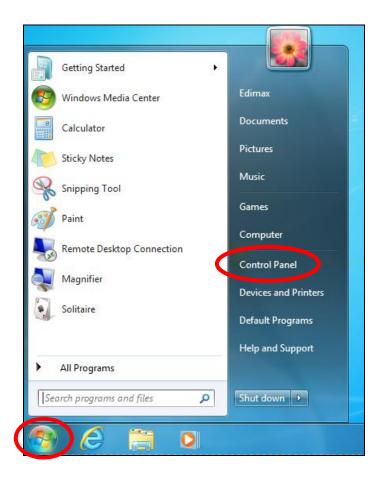
IP address: 192.168.2.10 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



V-1-3. Windows 7

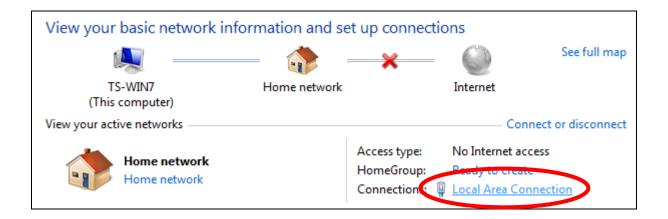
1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel".



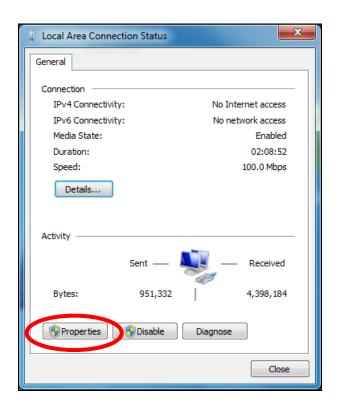
2. Under "Network and Internet" click "View network status and tasks".



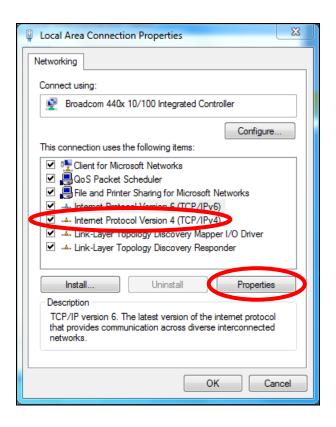
3. Click "Local Area Connection".



4. Click "Properties".



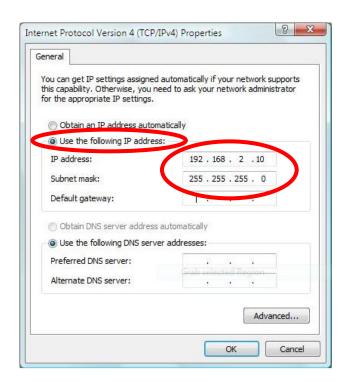
5. Select "Internet Protocol Version 4 (TCP/IPv4) and then click "Properties".



6. Select "Use the following IP address", then input the following values:

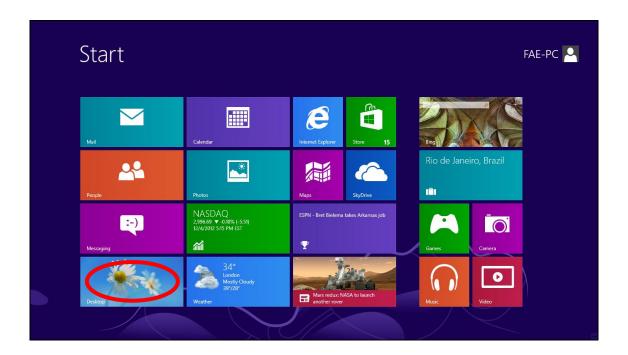
IP address: 192.168.2.10 Subnet Mask: 255.255.255.0

Click 'OK' when finished.

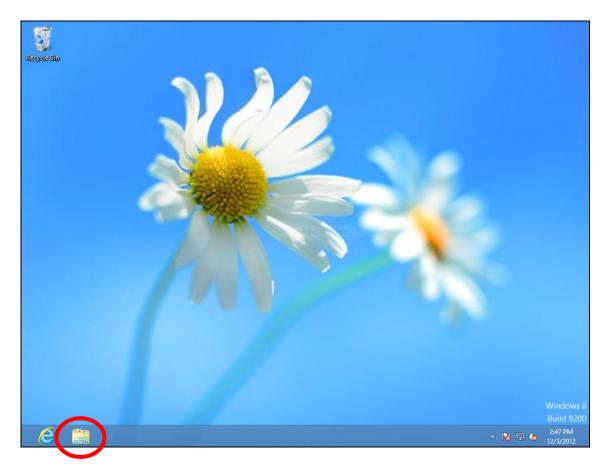


V-1-4. Windows 8

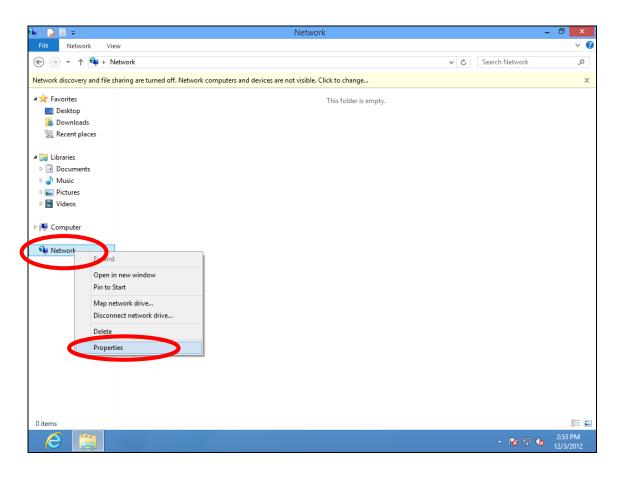
1. From the Windows 8 Start screen, you need to switch to desktop mode. Move your curser to the bottom left of the screen and click.



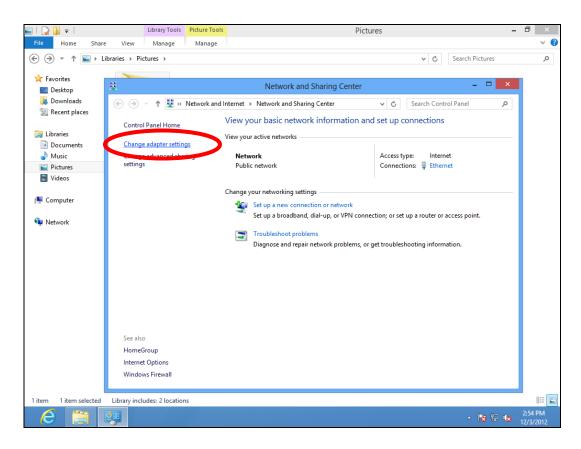
2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.



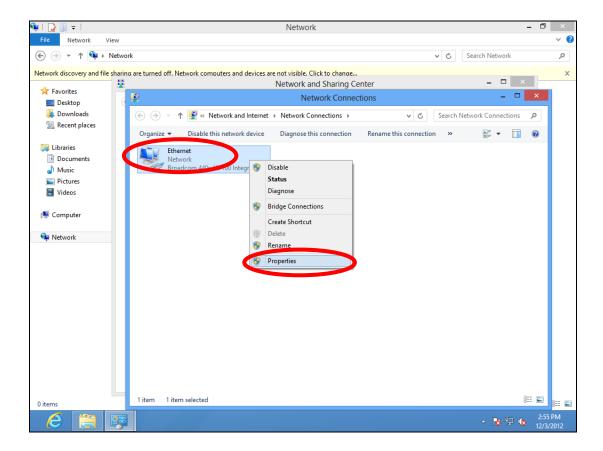
3. Right click "Network" and then select "Properties".



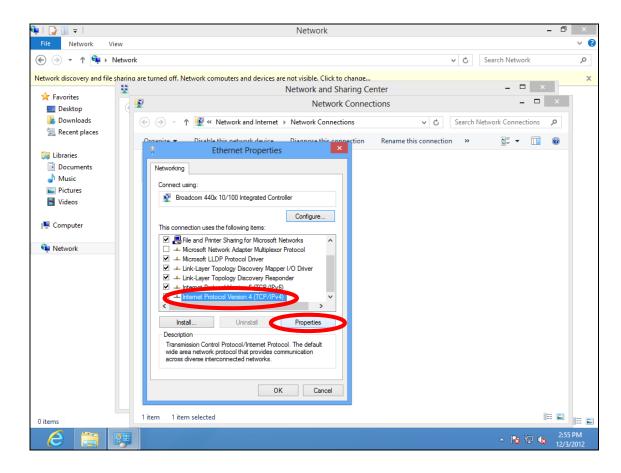
4. In the window that opens, select "Change adapter settings" from the left side.



5. Choose your connection and right click, then select "Properties".



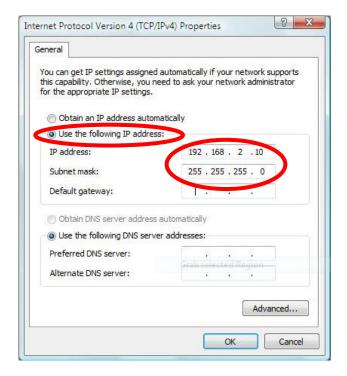
6. Select "Internet Protocol Version 4 (TCP/IPv4) and then click "Properties".



7. Select "Use the following IP address", then input the following values:

IP address: 192.168.2.10 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



V-1-5. Mac

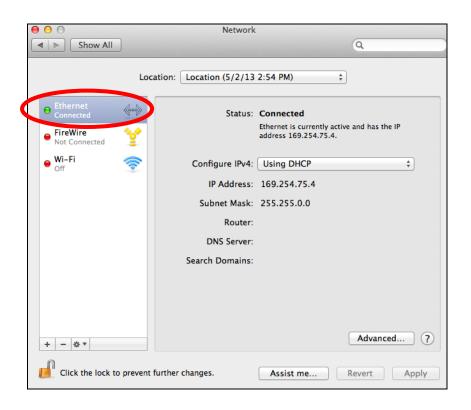
1. Have your Macintosh computer operate as usual, and click on "System Preferences"



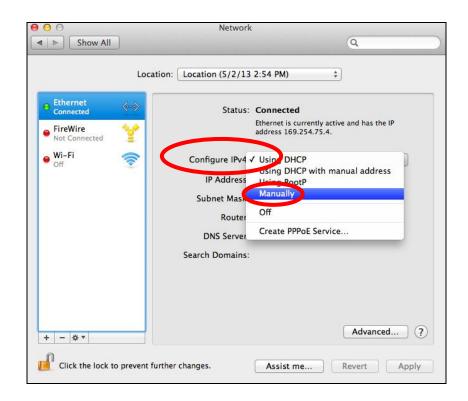
2. In System Preferences, click on "Network".



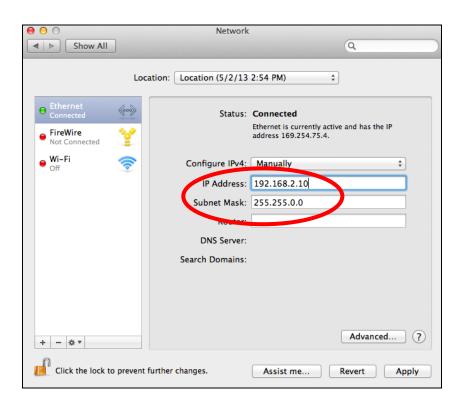
3. Click on "Ethernet" in the left panel.



4. Open the drop-down menu labeled "Configure IPv4" and select "Manually".



5. Enter the IP address 192.168.2.10 and subnet mask 255.255.255.0. Click on "Apply" to save the changes.



V-1-6. Glossary

Default Gateway (Access point): Every non-access point IP device needs to configure a default gateway's IP address. When the device sends out an IP packet, if the destination is not on the same network, the device has to send the packet to its default gateway, which will then send it out towards the destination.

DHCP: Dynamic Host Configuration Protocol. This protocol automatically gives every computer on your home network an IP address.

DNS Server IP Address: DNS stands for Domain Name System, which allows Internet servers to have a domain name (such as www.Broadbandaccess point.com) and one or more IP addresses (such as 192.34.45.8). A DNS server keeps a database of Internet servers and their respective domain names and IP addresses, so that when a domain name is requested (as in typing "Broadbandaccess point.com" into your Internet browser), the user is sent to the proper IP address. The DNS server IP address used by the computers on your home network is the location of the DNS server your ISP has assigned to you.

DSL Modem: DSL stands for Digital Subscriber Line. A DSL modem uses your existing phone lines to transmit data at high speeds.

Ethernet: A standard for computer networks. Ethernet networks are connected by special cables and hubs, and move data around at up to 10/100 million bits per second (Mbps).

IP Address and Network (Subnet) Mask: IP stands for Internet Protocol. An IP address consists of a series of four numbers separated by periods, that identifies a single, unique Internet computer host in an IP network. Example: 192.168.2.1. It consists of 2 portions: the IP network address, and the host identifier.

ISP Gateway Address: (see ISP for definition). The ISP Gateway Address is an IP address for the Internet access point located at the ISP's office.

ISP: Internet Service Provider. An ISP is a business that provides connectivity to the Internet for individuals and other businesses or organizations.

LAN: Local Area Network. A LAN is a group of computers and devices connected together in a relatively small area (such as a house or an office). Your home network is considered a LAN.

MAC Address: MAC stands for Media Access Control. A MAC address is the hardware address of a device connected to a network. The MAC address is a unique identifier for a device with an Ethernet interface. It is comprised of two parts: 3 bytes of data that corresponds to the Manufacturer ID (unique for each manufacturer), plus 3 bytes that are often used as the product's serial number.

Access point: An access point is an intelligent network device that forwards packets between different networks based on network layer address information such as IP addresses.

Subnet Mask: A subnet mask, which may be a part of the TCP/IP information provided by your ISP, is a set of four numbers (e.g. 255.255.255.0) configured like an IP address. It is used to create IP address numbers used only within a

particular network (as opposed to valid IP address numbers recognized by the Internet, which must be assigned by InterNIC).

TCP/IP, UDP: Transmission Control Protocol/Internet Protocol (TCP/IP) and Unreliable Datagram Protocol (UDP). TCP/IP is the standard protocol for data transmission over the Internet. Both TCP and UDP are transport layer protocol. TCP performs proper error detection and error recovery, and thus is reliable. UDP on the other hand is not reliable. They both run on top of the IP (Internet Protocol), a network layer protocol.

Web-based management Graphical User Interface (GUI): Many devices support a graphical user interface that is based on the web browser. This means the user can use the familiar Netscape or Microsoft Internet Explorer to Control/configure or monitor the device being managed.

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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 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:

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

FCC Caution

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. 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. Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communications Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 2.5cm (1 inch) during normal operation.

Federal Communications Commission (FCC) RF Exposure Requirements

SAR compliance has been established in the laptop computer(s) configurations with PCMCIA slot on the side near the center, as tested in the application for certification, and can be used in laptop computer(s) with substantially similar physical dimensions, construction, and electrical and RF characteristics. Use in other devices such as PDAs or lap pads is not authorized. This transmitter is restricted for use with the specific antenna tested in the application for certification. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use

None

EU Declaration of Conformity

English: This equipment is in compliance with the essential requirements and other relevant

provisions of Directive 1995/5/EC, 2009/125/EC, 2006/95/EC, 2011/65/EC.

Français: Cet équipement est conforme aux exigences essentielles et autres dispositions de la

directive 1995/5/CE, 2009/125/CE, 2006/95/CE, 2011/65/CE.

Čeština: Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními

směrnic 1995/5/ES, 2009/125/ES, 2006/95/ES, 2011/65/ES.

Polski: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami

określonymi Dyrektywa UE 1995/5/EC, 2009/125/EC, 2006/95/EC, 2011/65/EC...

Română: Acest echipament este în conformitate cu cerințele esențiale și alte prevederi relevante ale

Directivei 1995/5/CE, 2009/125/CE, 2006/95/CE, 2011/65/CE.

Русский: Это оборудование соответствует основным требованиям и положениям Директивы

1995/5/EC, 2009/125/EC, 2006/95/EC, 2011/65/EC.

Magyar: Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek

(1995/5/EK, 2009/125/EK, 2006/95/EK, 2011/65/EK).

Türkçe: Bu cihaz 1995/5/EC, 2009/125/EC, 2006/95/EC, 2011/65/EC direktifleri zorunlu istekler ve

diğer hükümlerle ile uyumludur.

Українська: Обладнання відповідає вимогам і умовам директиви 1995/5/ЕС, 2009/125/ЕС,

2006/95/EC, 2011/65/EC.

Slovenčina: Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc

1995/5/ES, 2009/125/ES, 2006/95/ES, 2011/65/ES.

Deutsch: Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 1995/5/EC, 2009/125/EC,

2006/95/EC, 2011/65/EC.

Español: El presente equipo cumple los requisitos esenciales de la Directiva 1995/5/EC,

2009/125/EC, 2006/95/EC, 2011/65/EC.

Italiano: Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili

della Direttiva 1995/5/CE, 2009/125/CE, 2006/95/CE, 2011/65/CE.

Nederlands: Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen

van richtlijn 1995/5/EC, 2009/125/EC, 2006/95/EC, 2011/65/EC...

Português: Este equipamento cumpre os requesitos essênciais da Directiva 1995/5/EC, 2009/125/EC,

2006/95/EC, 2011/65/EC.

Norsk: Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv

1995/5/EC, 2009/125/EC, 2006/95/EC, 2011/65/EC.

Svenska: Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta

bestämmelser i direktiv 1995/5/EG, 2009/125/EG, 2006/95/EG, 2011/65/EG.

Dansk: Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante

forordninger i direktiv 1995/5/EC, 2009/125/EC, 2006/95/EC, 2011/65/EC.

suomen kieli: Tämä laite täyttää direktiivien 1995/5/EY, 2009/125/EY, 2006/95/EY, 2011/65/EY

oleelliset vaatimukset ja muut asiaankuuluvat määräykset.



WEEE Directive & Product Disposal



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European R&TTE directives.

Equipment: AC1750 Wall Mount Access Point

Model No.: WAP1750

The following European standards for essential requirements have been followed:

Directives 1999/5/EC

ETSI EN 300 328 V1.8.1 (2012-06); Spectrum

ETSI EN 301 893 V1.7.1 (2012-06)

EMC : EN 301 489-1 V1.9.2 (2011-09);

EN 301 489-17 V2.2.1 (2012-09);

IEC 60950-1:2005 (2nd Edition);Am 1:2009 Safety (LVD)

EN 60950-1:2006+A11:2009+A1:2010+A12:2011

Recommendation 19 99/5/EC

EMF EN 62311:2008

Directives 2006/95/EC

IEC 60950-1:2005 (2nd Edition);Am 1:2009 Safety (LVD) :

EN 60950-1:2006+A11:2009+A1:2010+A12:2011

Edimax Technology Co., Ltd. No. 3, Wu Chuan 3rd Road, Wu-Ku Industrial Park,

New Taipei City, Taiwan

 $C \in \mathbb{C}$

Date of Signature: May, 2014

Signature:

Printed Name: **Albert Chang**

Title: Director

Edimax Technology Co., Ltd.

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