AC1200 Wireless LAN 11ac Dual-Band Concurrent Wall Mount Access Point

User's Manual

Version: 1.0 (October, 2014)

CONTENTS

I.	Product In	nformation	1
	I-1.	Package Contents	1
	I-2.	System Requirements	2
	I-3.	Hardware Overview	2
	I-4.	LED Status	3
	I-5.	Reset	3
	I-6.	Magnetic Wall Mount	4
	I-7.	Console	5
	I-8.	Safety Information	6
II.	Quick Set	up	7
	II-1.	Initial Setup	7
	II-2.	Basic Settings	9
	II-3.	Wi-Fi Protected Setup (WPS)	13
III.	Hardware	Installation	13
IV.	Browser E	Based Configuration Interface	14
	IV-1.	Information	17
	IV-1-1.	System Information	17
	IV-1-2.	Wireless Clients	21
	IV-1-3.	Wireless Monitor	23
	IV-1-4.	Log	24
	IV-2.	Network Settings	26
	IV-2-1.	LAN-Side IP Address	26
	IV-2-2.	LAN Port	28
	IV-2-3.	VLAN	29
	IV-3.	Wireless Settings	30
	IV-3-1.	2.4GHz 11bgn	30
	IV-3-1-1.	Basic	31
	IV-3-1-2.	Advanced	34
	IV-3-1-3.	Security	
	IV-3-1-3-1.	No Authentication	
	IV-3-1-3-2.	WEP	
	IV-3-1-3-3.	IEEE802.1x/EAP	
	IV-3-1-3-4.	WPA-PSK	
	IV-3-1-3-5.	WPA-EAP	
	IV-3-1-3-6.	Additional Authentication	
	IV-3-1-4.	WDS	41

	IV-3-2.	5GHz 11ac 11an	43
	IV-3-2-1.	Basic	43
	IV-3-2-2.	Advanced	46
	IV-3-2-3.	Security	48
	IV-3-2-4.	WDS	50
	IV-3-3.	RADIUS	52
	IV-3-3-1.	RADIUS Settings	53
	IV-3-3-2.	Internal Server	54
	IV-3-3-3.	RADIUS Accounts	56
	IV-3-4.	MAC Filter	58
	IV-3-5.	WMM	60
	IV-4.	Management	62
	IV-4-1.	Admin	62
	IV-4-2.	Date and Time	65
	IV-4-3.	Syslog Server	67
	IV-4-4.	I'm Here	68
	IV-5.	Advanced	69
	IV-5-1.	LED Settings	69
	IV-5-2.	Update Firmware	70
	IV-5-3.	Save/Restore Settings	72
	IV-5-4.	Factory Default	75
	IV-5-5.	Reboot	76
v.	Appendix .		77
	V-1.	Configuring your IP address	78
	V-1-1.	Windows XP	78
	V-1-2.	Windows Vista	80
	V-1-3.	Windows 7	82
	V-1-4.	Windows 8	89
	V-1-5.	Mac	89
	V-1-6.	Glossary	91
	V-2.	Hardware Specification	94
	V-3.	ENVIRONMENT & PHYSICAL	94

I. Product Information

I-1. Package Contents



- **1.** Access Point
- **2.** Antennas x 2
- **3.** Magnetic Wall Mount x 1

& Screws

- 4. Quick Installation Guide
- **5.** Power Cord
- 6. Power Adapter

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 PD, IN)
- **C.** LAN port with Power over Ethernet (PoE PSE, OUT)
- **D.** Reset the access point to factory default settings

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



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



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.
- 10. Operating temperature when using power adapter is 0°C to 40°C, Operating temperature when using PoE switch is 0°C to 50°C.

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.

		Hom	ne Logout Global (English)	
Generic - 1200	Information Network S	Settings Wireless Settings M	anagement Advanced	
Information	System Information			
System Information	System			
Wireless Clients	System			
	Model	Generic-1200		
Wireless Monitor	Product Name	AP74DA380B03D4		
Log	Uptime	0 day 00:18:51		
	Boot from	Internal memory		
	Version	1.0.0		
	MAC Address	74:DA:38:0B:03:D4		
	Management VLAN ID	1		
	IP Address	192.168.2.2 Refresh		
	Default Gateway			
	DNS			
	DHCP Server			
	Wired LAN Port Setting	s		
		-		
	Wired LAN Port	Status	VLAN Mode/ID	
	Wired Port (#1)	Connected (1000 Mbps Full-Duplex)	Untagged Port / 1	
	Wired Port (#2)	Disconnected ()	Untagged Port / 1	
	Wireless 2.4GHz			
	Status	Enabled		
	MAC Address	74:DA:38:0B:03:D4		
	Channel	Ch 6 (Auto)		

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.

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

IP Address Assignment	DHCP Client V
IP Address	192.168.2.2
Subnet Mask	255.255.255.0
Default Gateway	From DHCP V

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".

	Wireless		Enable Disable
	Band		11b/g/n ▼
	Enable SSID number		1 •
	SSID1		Generic-1200-0B03D4_G VLAN ID 1
	Auto Channel		Enable Disable
	Auto Channel Range		Ch 1 - 11 🔻
	Auto Channel Interval	I	One day 🔻
	Channel Bandwidth		Change channel even if clients are connected
пц			
GH	z Wireless Security Settin	ngs	ply Cancel
SID		Generic-	1200-0B03D4_G V
road	cast SSID	Enable	T
lirele	ss Client Isolation	Disable	• eless
Load Balancing 50		50	/50 ecurity". Sele
-			
			or "Encryption
uthe	ntication Method	No Auth	Pr "Encryption ■entication ▼
uthe dditi	ntication Method onal Authentication	No Auth No addit	ientication
uther dditio	ntication Method onal Authentication	No Auth No addit	ientication itional authentication Apply Cancel pr "Encryptio sing the
uther dditio	ntication Method onal Authentication 2.4GHz Wireless Sec	No Auth No addit	Pr "Encryption in tional authentication • Apply Cancel sing the
uther dditio	ntication Method onal Authentication 2.4GHz Wireless Sec	No Auth No addit	Pr "Encryption pr "Encryption sing the sing the
uther dditio	ntication Method onal Authentication 2.4GHz Wireless Sec SSID Broadcast SSID	No Auth No addit	Pr "Encryption pr "Encryption sing the sing the Generic-1200-0B03D4_G ▼
uther	ntication Method onal Authentication 2.4GHz Wireless Sec SSID Broadcast SSID Wireless Client Isolati	No Auth No addit	sing the Generic-1200-0B03D4_G Disable
uthe dditid	ntication Method onal Authentication 2.4GHz Wireless Sec SSID Broadcast SSID Wireless Client Isolati Load Balancing	No Auth No addit	sing the Generic-1200-0B03D4_G T Enable T Disable T 50 /50
uther dditio	ntication Method onal Authentication 2.4GHz Wireless Sec SSID Broadcast SSID Wireless Client Isolati Load Balancing	No Auth No addit	sing the Generic-1200-0B03D4_G \ Enable \ 50 /50
uther dditio	ntication Method onal Authentication 2.4GHz Wireless Sec SSID Broadcast SSID Wireless Client Isolati Load Balancing Authentication Method	ion	sing the sing the Generic-1200-0B03D4_G Disable 50 /50 No Authentication No Authentication Sr "Encryption sing the Sing the

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"**.

ninistrator Name	admin	
inistrator Deseword	••••	(4-32 Characters)
	••••	(Confirm)

- 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".

Date and Time S	ettings
	2012 💌 Year Jan 💌 Month 1 💌 Day
Local Time	0 Hours 00 Minutes 00 Seconds
Acquire Current Ti	me from Your PC
NTP Time Serve	
Use NTP	Enable
Server Name	
Update Interval	24 hours
Time Zone	
Time Zone (GN	1T) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London 🖉 🖛

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. 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.



IV. Browser Based Configuration Interface

The browser-based configuration interface enables you to configure the access point's advanced features. The EW-7679WAC 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).

		Hon	ne Logout Global (Englist		
Generic - 1200	Information Network	Settings Wireless Settings M	lanagement Advance		
formation	System Information				
stem Information	Sustan				
ireless Clients	System				
	Model	Generic-1200	Generic-1200		
reless Monitor	Product Name	AP74DA380B03D4	AP74DA380B03D4		
a	Uptime	0 day 00:18:51			
	Boot from	Internal memory	Internal memory		
	Version	1.0.0			
	MAC Address	74:DA:38:0B:03:D4			
	Management VLAN ID	1	1		
	IP Address	192.168.2.2 Refresh	192.168.2.2 Refresh		
	Default Gateway				
	DNS				
	DHCP Server				
	Wired LAN Port Setting	gs			
	Wired Port (#1)	Connected (1000 Mbps Full-Duplex)	Untagged Port / 1		
	Wired Port (#2)	Disconnected ()	Untagged Port / 1		
	Wired LAN Port Wired Port (#1) Wired Port (#2) Wireless 2.4GHz	Status Connected (1000 Mbps Full-Duplex) Disconnected ()	VLAN Mode/i Untagged Port / Untagged Port /		
	Status	Enabled			
	MAC Address	74:DA:38:0B:03:D4			
	Channel	Ch 6 (Auto)			

If you cannot remember your password, reset the access point back to its factory default settings. Refer to 1-5. Reset

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.

EDIMAX Pro				Home Logo	out Global (English) 💌
W A P 1 7 5 0	Information	Network Settings	Wireless Settings	Management	Advanced
Wireless Settings > 2.4GHz 11bgn > Basic Advanced Security					
WDS					
> 5GHz 11ac 11an					
Basic					
Advanced					
Security					
WDS					
> WPS					
> RADIUS					
Radius Settings					
Internal Server					
Radius Accounts					
> MAC Filter				\frown	
> WMM				Apply	Cancel

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.

Information Network Settings Wireless Settings Management Advanced

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.

AP74DA380B03D4 0 day 00:18:51 Internal memory			
0 day 00:18:51 Internal memory			
Internal memory			
	Internal memory		
1.0.0	1.0.0		
74:DA:38:0B:03:D4	74:DA:38:0B:03:D4		
1	1		
192.168.2.2 Refresh	192.168.2.2 Refresh		
5			
T.	,		
Status	VLAN Mode/ID		
Connected (1000 Mbps Full-Duplex)	Untagged Port / 1		
	Disconnected () Untagged Port / 1		
	74:DA:38:0B:03:D4 1 192.168.2.2 Refresh S Status Connected (1000 Mbps Full-Duplex)		

Status	Enabled
MAC Address	74:DA:38:0B:03:D4
Channel	Ch 6 (Auto)

	Wireless 2.4GHz		
	Status	Enabled	
	MAC Address	74:DA:38:0B:03:D4	
	Channel	Ch 1 + 5	
	Transmit Power	100%	
_			

Wireless 2.4GHz /SSID					
SSID	Authentication Method	Encryption Type	VLAN ID	Additional Authentication	Wireless Client Isolation
Q002G	No Authentication	No Encryption	1	No additional authentication	Disabled

MAC Address Encryption Type VLAN Mode/ID No WDS entries. No WDS entries. Vireless 5GHz Enabled Address MAC Address 74:DA:38:0B:03:D5 Channel Ch 36 + 40 + 44 + 48 Ch 36 + 40 + 44 + 48 Ch 36 + 40 + 44 + 48 Transmit Power 100% VILAN ID Additional Authentication Isolation SSID Authentication Method Encryption Type VLAN ID Additional Authentication Disabled Wireless 5GHz /WDS Disabled No Encryption 1 No additional authentication Disabled	ireless 2.4GHz /WDS Disabled						
No WDS entries. Vireless 5GHz Status Enabled MAC Address 74:DA:38:0B:03:D5 Channel Ch 36 + 40 + 44 + 48 Transmit Power 100% Vireless 5GHz /SSID VLAN ID Additional authentication Disabled SSID Authentication Method Encryption Type VLAN ID Additional authentication Disabled	MAC Address		E	nervotion Typ	e	VLAN	Mode/ID
Status Enabled MAC Address 74:DA:38:0B:03:D5 Channel Ch 36 + 40 + 44 + 48 Transmit Power 100% Vireless 5GHz /SSID VLAN ID Additional Authentication Wireless Clie Isolation SSID Authentication Encryption Type VLAN ID Additional Authentication Wireless Clie Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled Wireless 5GHz /WDS Disabled				No WDS entries	-		
Wireless 5GHz Status Enabled MAC Address 74:DA:38:0B:03:D5 Channel Ch 36 + 40 + 44 + 48 Transmit Power 100% Vireless 5GHz /SSID VLAN ID Additional Authentication Isolation SSID Authentication Method Encryption Type VLAN Mode/ID Vireless 5GHz /WDS Disabled Vireless 5GHz /WDS Disabled							
Status Enabled MAC Address 74:DA:38:0B:03:D5 Channel Ch 36 + 40 + 44 + 48 Transmit Power 100% Vireless 5GHz /SSID VLAN ID Additional Authentication Method Wireless Clie Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled							
Status Enabled MAC Address 74:DA:38:0B:03:D5 Channel Ch 36 + 40 + 44 + 48 Transmit Power 100% Vireless 5GHz /SSID SSID Authentication Method Encryption Type VLAN ID Additional Authentication Isolation Wireless Clie Isolation 0005G No Authentication No Encryption 1 No additional authentication Disabled	Vireless 5GHz						
Status Enabled MAC Address 74:DA:38:0B:03:D5 Channel Ch 36 + 40 + 44 + 48 Transmit Power 100% Vireless 5GHz /SSID SSID Authentication Method No Authentication Encryption Type VLAN ID Additional Authentication Isolation D005G No Authentication No Encryption Vireless 5GHz /WDS Disabled							
MAC Address 74:DA:38:0B:03:D5 Channel Ch 36 + 40 + 44 + 48 Transmit Power 100% Vireless 5GHz /SSID Authentication Method Encryption Type VLAN ID Additional authentication Wireless Clie Isolation SSID Authentication Method Encryption Type VLAN ID Additional authentication Disabled Vireless 5GHz /WDS Disabled No Encryption Type VLAN Mode/ID	Status		Enable	d			
Channel Ch 36 + 40 + 44 + 48 Transmit Power 100% Wireless 5GHz /SSID Authentication Method Encryption Type VLAN ID Additional Authentication Isolation Wireless Clie Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled Wireless 5GHz /WDS Disabled Encryption Type VLAN Mode/ID	MAC Address		74:DA:	38:0B:03:D5			
Transmit Power 100% Wireless 5GHz /SSID Authentication Encryption VLAN ID Additional Authentication Isolation SSID Authentication Method Type VLAN ID Authentication Authentication Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled Wireless 5GHz /WDS Disabled Encryption Type VLAN Mode/ID	Channel		Ch 36 + 40 + 44 + 48				
SSID Authentication Method Encryption Type VLAN ID Additional Authentication Wireless Clie Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled Wireless 5GHz /WDS Disabled MAC Address Encryption Type VLAN Mode/ID	Transmit Power		100%				
SSID Authentication Method Encryption Type VLAN ID Additional Authentication Wireless Clie Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled Wireless 5GHz /WDS Disabled MAC Address Encryption Type VLAN Mode/ID							
SSID Authentication Method Encryption Type VLAN ID Additional Authentication Wireless Clie Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled Wireless 5GHz /WDS Disabled MAC Address Encryption Type VLAN Mode/ID	Wireless 5CHz /SS	ID					
SSID Authentication Method Encryption Type VLAN ID Additional Authentication Wireless Clie Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled Wireless 5GHz /WDS Disabled MAC Address Encryption Type VLAN Mode/ID	1101033 50112 755	12					
SSID Method Type VLAN ID Authentication Isolation 2005G No Authentication No Encryption 1 No additional authentication Disabled		Authenti	cation	Encryption		Additional	Wireless Clier
DOODSG No Authentication No Encryption 1 No additional authentication Wireless 5GHz /WDS Disabled MAC Address Encryption Type VLAN Mode/ID	SSID	Meth	od	Туре	VLAN ID	Authentication	Isolation
Wireless 5GHz /WDS Disabled Model Conception Model Conception MAC Address Encryption Type VLAN Mode/ID	00050	No Authen	tication	No Encountion	1	No additional	Disabled
Wireless 5GHz /WDS Disabled MAC Address Encryption Type VLAN Mode/ID	20030	No Addren	lication	No Encryption	· ·	authentication	Disabica
Wireless 5GHz /WDS Disabled MAC Address Encryption Type VLAN Mode/ID							
MAC Address Encryption Type VLAN Mode/ID	Vinalaas 5011. OVI	DC Discher					
MAC Address Encryption Type VLAN Mode/ID	vireless SGHZ /WI	JS Disabled					
	MAC Addres	s	F	Encryption Tyr	he	VIAN	Mode/ID
No WDS entries	into Addres	-		No WDS optrior		C Little	modent

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	Displays the management VLAN ID.
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 Setting	Wired LAN Port Settings		
Wired LAN Port Specifies which LAN port (1 or 2).			
Status Displays the status of the specified LAN			
	(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 th		
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 addre		
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

Wireless Clients

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

Refresh time							
Auto Refresh time	9 5 s	econds	🔍 1 se	cond 🔘 D	Disable		
Manual Refresh	Refr	esh					
2.4GHz WLAN Client	Table						
CSID MAC Address	Ty Dy Signa	1 (9/)	Conne	antad Tim	a di	o Timo	Vandar
SSID MAC Address	No	wireles	s client	ecteu mi		e mine	venuor
5GHz WLAN Client Tabl	le						
# SSID	MAC Address	Тх	Rx	Signal Co (%)	onnected Time	ldle Time	Vendor
	No	wireless o	lient				

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.
Тх	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

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.

Site Survey		Wireless 2.4G/ 5G	3 🔘 2.4G 🔘 5G	Scan	
Channel Sur	vey result	Export			
Wireless 2.	4GHz				
Wireless 2.	4GHz MAC Addres	ss Security	Signal (%)	Туре	Vendor
Wireless 2. Ch SSID	4GHz MAC Addres	ss Security You can click Scan butt	Signal (%) on to start.	Туре	Vendor
Wireless 2.	4GHz MAC Addres	SS Security You can click Scan butt	Signal (%) on to start.	Туре	Vendor
Wireless 2. Ch SSID Wireless 50	4GHz MAC Addres	ss Security You can click Scan butt	Signal (%) on to start.	Туре	Vendor

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 save
Result	the results to local storage.

Site Survey Results	
Ch	Displays the channel number used by the 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.



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

The following information/events are recorded by the log:







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

IV-2-1. LAN-Side IP Address

Secondary Address

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.

A The access point's default IP address is 192.168.2.2.

Address Assignment	DHCP Client
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Default Gateway	From DHCP -

LAN-side IP Address	
IP Address	Select "DHCP Client" for your access point to
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).

From DHCP 🔻

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 black
	Statie if 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

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	Sp	eed & 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

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.

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 [QOO2G]	Untagged Port	1
Wireless 5GHz	VLAN Mode	VLAN ID
SSID [QOO5G]	Untagged Port	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	
VLAN ID	Specify the VLAN ID of the management VLAN. Only the hosts belonging to the same VLAN can manage the device.

IV-3. Wireless Settings



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

IV-3-1. 2.4GHz 11bgn

> 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

Basic

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

Wireless	Enable Disable	
Band	11b/g/n ▼	
Enable SSID number	1 •	
SSID1	Generic-1200-0B03D4_G VLAN ID 1	
Auto Channel	Enable Disable	
Auto Channel Range	Ch 1 - 11 🔻	
Auto Channel Interval	One day 🔻	
	Change channel even if clients are connected	
Channel Bandwidth	Auto 🔻	
BSS BasicRateSet	125511 Mbps 🔹	



Auto Channel	Enable Obisable
Channel	Ch 11 💌
Channel Bandwidth	Auto, +Ch 7 💌
BSS BasicRateSet	1,2,5.5,11 Mbps

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	Specify a frequency for how often the auto
Interval	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

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.

2.4GHz Advanced Settings	.4GHz Advanced Settings	
Contention Slot	Short V	
Preamble Type	Short V	
Guard Interval	Short GI 🗸	
802.11g Protection	Enable Disable	
802.11n Protection	Enable Disable	
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 Set	tings
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 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 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-3-1-3. 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.

curity	
2.4GHz Wireless Security Sett	tings
SSID	Generic-1200-0B03D4_G
Broadcast SSID	Enable v
Wireless Client Isolation	Disable •
Load Balancing	50 /50
Autnentication Method	No Authentication •
Additional Authentication	No additional authentication

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.
Кеу Туре	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 Туре	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 your selection.
Encryption	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 Туре	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.

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	Select whether to use MAC address or
Password	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 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	
	Disabled
WDS Functionality	WDS with AP
Local MAC Address	Dedicated WDS

WDS Peer Settings	
WDS #1	MAC Address
WDS #2	MAC Address
WDS #3	MAC Address
WDS #4	MAC Address

WDS VLAN	
VLAN Mode	Untagged Port V
VLAN ID	1
VLAN Mode VLAN ID	Untagged Port ✓ 1

WDS Encryption method	
Encryption	None V

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 met	hod
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

> 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

Basic

The "Basic" screen displays basic settings for your access point's 5GHz Wi-Fi network (s).

Vireless	Enable Disable		
Band	11a/n/ac 💌		
Enable SSID number	1 💌		
SSID1	QOO5G	VLAN ID	1
Auto Channel	Enable Disable		
Auto Channel Range	Band 1 💌		
uto Channel Interval	One day 💌	n if clients are connecte	d
Channel Bandwidth	Auto 80/40/20 MHz	•	
SS BasicRateSet	6 12 24 Mbps 💌		



Auto Channel	C Enable
Channel	Ch 36, 5.18GHz 🗸
Channel Bandwidth	Auto 80/40/20 MHz V
BSS BasicRateSet	6,12,24 Mbps 🗸

5GHz Basic Settings	
Wireless	Enable or disable the access point's 5GHz
	wireless radio. When disabled, no 5GHz SSIDs
Devel	
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	Specify a frequency for how often the auto
Interval	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 series of rates to control communication frames for wireless clients.

IV-3-2-2. Advanced

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.

5GHz Advanced Settings				
Guard Interval	Short GI			
802.11n Protection	Enable	Enable Disable		
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 Settings	
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
	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 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.

	00000
SSID	Q005G 💌
Broadcast SSID	Enable 💌
Wireless Client Isolation	Disable 💌
Load Balancing	50 /50
Authentication Method	No Authentication
Additional Authentication	No additional authentication

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	Disabled WDS with AP
WDS Functionality	Dedicated WDS
Local MAC Address	80:1F:02:F1:96:8B
WDS Peer Settings	
WDS #1	MAC Address
WDS #2	MAC Address
WDS #3	MAC Address
WDS #4	MAC Address

WDS VLAN		
	VLAN Mode	Untagged Port V
	VLAN ID	1

Encryption method		
Encryption	None V	

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. RADIUS

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	Internal	External
RADIUS Server		
Authentication Port	1812	
Shared Secret		
Session Timeout	3600	second(s)
Accounting	Enable	O Disable
Accounting Port	1813	
	5	Secondary RADIUS Server
RADIUS Type	Internal	External
RADIUS Server		
Authentication Port	1812	
Shared Secret		
Session Timeout	3600	second(s)
Accounting	Enable	O Disable
A accuration Dont	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

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" \rightarrow "RADIUS" \rightarrow "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).

nternal Server		
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.

Radius Accounts	
User Name	
Example: EDIMAX-USER1, EDIMAX-USER2, EDIMAX-USER3, EDIMAX-USER4	
Enter user name here	*
Add Reset	~

User Registration List			
Select	User Name	Password	Customize
	EDIMAX	Not Configured	Edit
	Delete Selected elete All		
Edit User Re	gistration List		
User Name	E	DIMAX (4	-16characters)
Password		(6-3	2characters)

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 Reset	
MAC Address Filtering Table	
Select	MAC Address FC:F8:AE:43:43:7E

AII	Export
1	

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-ff,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

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 Para	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
Voice	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.

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

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	ice	
Administrator Namo	admin	
Administrator Password	aumin	
	••••	(4-32 Characters)
	••••	(Confirm)
Apply		

Advanced Settings

Product Name	AP801F02F1968A
	✓ HTTP
	✓ HTTPS
Management Protocol	TELNET
	SSH
SNMP Version	v1/v2c 🗸
SNMP Get Community	public
SNMP Set Community	private
SNMP Trap	Disabled V
SNMP Trap Community	public
SNMP Trap Manager	
Apply	

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	
Product Name	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

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 Vear Jan Vonth 1 Day	
Loodi Timo	0 - Hours 00 - Minutes 00 - Seconds	
Acquire Current Time from Your PC		

NTP Time Server		
Use NTP	Enable	
Server Name		
Update Interval	24 (Hours)	

Time Zone		
Time Zone	(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London	•

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



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 Attached USB Device	Check/uncheck the box to enable/disable copying logs to attached USB storage.	

IV-4-4. I'm Here

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		
Duration of Sound	10	(1-300 seconds)
		Sound Buzzer
	👍 The bu	uzzer is loud!
Duration of Sound	Set the d sound wh clicked.	uration for which the buzzer will hen the "Sound Buzzer" button is
Sound Buzzer	Activate specified	the buzzer sound for the above duration of time.

Information Network Settings Wireless Settings Management Advanced

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

IV-5-1. LED Settings

LED Settings

The access point's LEDs can be manually enabled or disabled according to your

preference.

LED 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



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 website.

Firmware Location		
Update firmware from	 a file on your PC a file on an attached USB device (No USB device connected.) 	

Update firmware from PC			
Firmware Update File	Browse		
Update			

Firmware Location		
Update firmware from	 a file on your PC a file on an attached USB device 	

Update firmware from USB					
#	Select	Filename	Target	Version	Size (MB)
1	0	WAP1750-FW-V1-0-1-1.bin	WAP1750	1.0.1	7



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 Settings

The 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 (No USB device connected.)
Save Settings to PC	
Save Settings	Encrypt the configuration file with a password.
Save	
Restore Settings from PC	
	Browse
Restore Settings	Open file with password.
Restore	

-	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		
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
	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

Factory Default

If the access point malfunctions or is not 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



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-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

 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".

🕹 Local Area Connection Properties 🛛 🔹 💽			
General Authentication Advanced			
Connect using:			
AMD PCNET Family PCI Ethernet Ad <u>Configure</u>			
This connection uses the following items:			
Client for Microsoft Networks File and Printer Sharing for Microsoft Networks Set Packet Scheduler Internet Protocol (TCP/IP)			
Install Uninstal Properties			
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.			
Sho <u>w</u> icon in notification area when connected Notify <u>m</u> e when this connection has limited or no connectivity			
OK Cancel			

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.

Internet Protocol (TCP/IP) Properties 🛛 🛛 🛛 🥐 🔀		
General		
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.		
O Obtain an IP address automatically		
Use the following IP address:	102 100 2 10	
IP address:	192.168.2.10	
S <u>u</u> bnet mask:	255 . 255 . 255 . 0	
Default gateway:	· · ·	
Obtain DNS server address autom	atically	
Ouse the following DNS server add.	resses:	
Preferred DNS server:		
<u>A</u> lternate DNS server:	· · ·	
	Ad <u>v</u> anced	
OK Cancel		

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".

Connect using:	00 MT Network Conne	ection
his connection uses t	he following teme:	Configure
 Internet Proto Internet Proto 	col Version & (TCP/IP) col Version 4 (TCP/IP)	(4)
 ✓ Internet Froto ✓ Internet Proto ✓ Ink Layer To ✓ Link-Layer To 	col Version & (TCP/IP) col Version 4 (TCP/IP) pology Discovery Map pology Discovery Resp Uninstall	(6) per I/O Driver ponder 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.

ou can get IP settings assigned is capability. Otherwise, you ne	automatically if your network supports eed to ask your network administrator
r the appropriate IP settings.	
Contain an IP address autom	natically
Use the following IP address	sa a com j
IP address:	192,168,2,10
Subpet mask:	255 255 255 0
	233, 233, 233, 0
Default gateway:	<u>1 a as a</u>
Obtain DNS server address	automatically
Use the following DNS serve	er addresses:
Preferred DNS server:	
Alternate DNS server:	Grab selected Region
Friendle brie bei ren	
	Advanced

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".

Local Area Connection Status	×
General	
Connection	
IPv4 Connectivity:	No Internet access
IPv6 Connectivity:	No network access
Media State:	Enabled
Duration:	02:08:52
Speed:	100.0 Mbps
Details	
Activity	
Sent —	Received
Bytes: 951,332	4,398,184
Properties Solution	Diagnose
	Close

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

Local Area Connection Properties	<u> </u>	
Networking		
Connect using:		
Proadcom 440x 10/100 Integrated Controller		
Configure		
This connection uses the following items:		
Client for Microsoft Networks QoS Packet Scheduler File and Printer Sharing for Microsoft Networks		
Description TCP/IP version 6. The latest version of the internet protocol that provides communication across diverse interconnected networks.		
ОК Са	ncel	

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.

'ou can get IP settings assigned his capability. Otherwise, you n or the appropriate IP settings.	automatically if your network supports eed to ask your network administrator
Obtain an IP address addores Obtain an IP address addores	is:
IP address:	192.168.2.10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	Law of
 Obtain DNS server address Use the following DNS serv 	automatically er addresses:
Preferred DNS server:	
Alternate DNS server:	Stab selected region

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.

eneral	
You can get IP settings a this capability. Otherwise for the appropriate IP sei	issigned automatically if your network supports 2, you need to ask your network administrator ttings.
Obtain an IP addres	ss automatically
Output Description Use the following IP	address:
IP address:	192.168.2.10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
Obtain DNS server a	address automatically
O Use the following DN	NS server addresses:
Preferred DNS server:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Alternate DNS server:	Grab selected Region
	Advanced
	Advanceant

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.

● ○ ○	Network		
Show All		٩	
	Location: Location (5/2/13	3 2:54 PM) 🗘	
Ethernet Connected FireWire Not Connected	Status:	Ethernet is currently active and has the IP address 169.254.75.4.	
• Wi-Fi	Configure IPv4:	Using DHCP \$	
	IP Address:	169.254.75.4	
	Subnet Mask:	255.255.0.0	
	Router:		
	DNS Server:		
	Search Domains:		
+ - * *		Advanced ?	
Click the lock to prev	ent further changes.	Assist me Revert Apply	

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

00	Network	
Show All		Q
Loca	ation: Location (5/2/13 2:54 PM)	\$
 Ethernet Connected FireWire Not Connected Wi-Fi Off 	Status: Connected Ethernet is curr address 169.25 Configure IPv4 / Usin/DHCP Usin/DHCP Usin/DHCP Usin/PaotP DNS Server Search Domains:	ently active and has the IP 4.75.4. with manual address E Service
+ - & -		Advanced ?
Click the lock to prevent	urther changes. Assist me.	Revert Apply

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

0 0	Network	
◄ ► Show All]	Q
	Location: Location (5/2/13	2:54 PM) 🛟
Ethernet Connected FireWire Not Connected	Status:	Connected Ethernet is currently active and has the IP address 169.254.75.4.
• Wi-Fi Off	Configure IPv4: IP Address: Subnet Mask: No. mail DNS Server: Search Domains:	Manually ‡ 192.168.2.10 255.255.0.0
+ - & •	o prevent further changes.	Advanced ? Assist me Revert Apply

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.

A network mask is also a 32-bit binary pattern, and consists of consecutive leading 1's followed by consecutive trailing 0's, such as 1111111111111111111111111100000000. Therefore sometimes a network mask can also be described simply as "x" number of leading 1's. When both are represented side by side in their binary forms, all bits in the IP address that correspond to 1's in the network mask become part of the IP network address, and the remaining bits correspond to the host ID.

For example, if the IP address for a device is, in its binary form, <u>11011001.10110000.1001</u>0000.00000111, and if its network mask is, 11111111.11111111111110000.00000000 It means the device's network address is <u>11011001.10110000.1001</u>0000.00000000, and its host ID is, 00000000.0000000000000000111. This is a convenient and efficient method for access points to route IP packets to their destination.

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.

V-2. Hardware Specification

MCU/RF 🖉	Qualcomm Atheros QCA9558(2.4GHz) + QCA9880(5GHz)
PHY/Switch₽	Qualcomm Atheros AR8033 and AR8035
Memory 🖓	DDR2 128MB
Flash @	16MB
Physical Interface +	-LAN : 2 x 10/100/1000 Gigabit Ethernet with PoE support 802.3at (LAN 1) + 802.3af PSE Out (LAN 2, only available for 802.3at PSE input)↔ - Reset Button -DC Power Jack
Power	Power over Ethernet, IEEE 802.3at
Requirement 🖉	DC : 12V / 2.5A
Antenna	Detachable Antenna x2
Others₽	Internal Buzzer (Find me)

V-3. ENVIRONMENT & PHYSICAL

Temperature Range	Operation : 0 to 50°C ($32^{\circ}F$ to $122^{\circ}F$) Storage : -20 to $60^{\circ}C$ (-4°F to $140^{\circ}F$)
Humidity	90% or less – Operating, 90% or less - Storage
Certifications	FCC, CE
Dimensions	182mm (L) x 182mm (W) x 30mm (H)
Weight	470g
Package Content	1 x EW-7479WAC Access Point
	2 x 2dBi SMA Antenna
	1 x Power Adapter (12V / 2.5A)
	1 x Wall Mount Screws Kit
	1 x Wall Mount Screw Template
	1 x Ethernet Cable

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

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

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

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