

EW-7438PTn

User Manual

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I. Product Information

I-1. Package Contents









- EW-7438PTn
- CD with multi-language QIG & user manual
- Quick installation guide (QIG)
- Access key card

I-2. System Requirements

- Wi-Fi extender/Wi-Fi bridge mode: Existing 2.4GHz wireless network
- Access point mode: Cable/DSL modem router
- Computer with 2.4GHz 802.11/b/g/n Wi-Fi adapter, and web browser for software configuration (Internet Explorer, Google Chrome, Firefox, or Safari, latest version)
- Smartphone setup and APP: iOS 6 or Android 4.x and above

I-3. LED Status

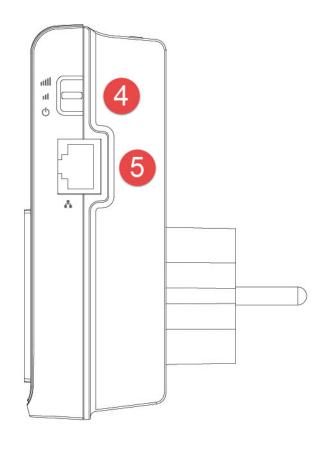
LED	Color	Status	Description
		On	Excellent signal Signal strength: 60 – 100%
Signal Strength	Amber	Slow Flashing	Good signal Signal strength: 40 – 60%
ıll		Quick Flashing	Poor signal Signal strength: 0 – 40%
		Off	No signal detected, disconnected, or in LED off mode

Г	<u> </u>		T
Wi-Fi	Green	Flashing	Transferring data
•		Off	Wi-Fi not active or in LED off mode
		On	Extender is on
Power	Green	Flashing	Resetting to factory default settings or extender is starting up
		Off	Extender is off or in LED off mode
	Green	On	WPS connection established (LED will remain on for 5 minutes to indicate a successful connection)
wps ©		Flashing	WPS in progress (waiting for another WPS device)
		Off	No WPS in progress or in LED off mode
		On	LAN port connected
LAN	Green	Flashing	LAN activity (transferring or receiving data)
2 7		Off	LAN port not connected

LEDs can be disabled in "Advanced Setting → Scheduling setting" **in** 📤 the browser based configuration interface. If LEDs are disabled, all LEDs will be off regardless of the extender's status.

I-4. Hardware Overview





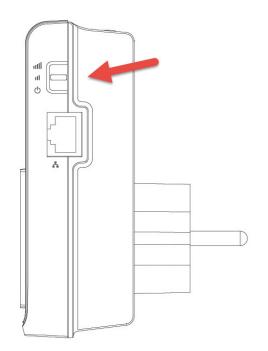
- **1.** LEDs
- 2. WPS/Reset Button
- 3. Socket Pass-Through

- 4. Slide switch
- 5. Ethernet Port

I-5. Slide switch

The EW-7438PTn includes a hardware slide switch on the side of the device which can switch between normal, green mode and off as shown in the table below. "Wi-Fi power" refers to the strength of the extender's wireless radio signal (Tx).

If you are using the extender in a small or medium sized space, you may not need the full power of the wireless radio. Try it, and determine if you still have sufficient Wi-Fi coverage using green mode. If so, you can save some energy.



"Tx power works in conjunction with the slide switch on the side of the device. The slide switch is the primary setting and the Tx power value here will be a percentage of the slide switch setting. E.G If the slide switch is set to Green Mode (25%) and Tx power to 75%, the overall output will be 75% of 25%."

Mode	Switch Position	Description
Normal	Тор	100% Wi-Fi power
Green Mode	Middle	25% Wi-Fi power
Off	Bottom	Power off

I-6. Socket Pass-Through

The EW-7438PTn features a pass-through power socket on the front so you can still plug in an electrical appliance while using the extender. Simply plug in your appliance.



I-7. WPS Setup

The WPS button is a quick and easy method to establish a secure connection between your EW-7438PTn and wireless device.

If your wireless device supports WPS (Wi-Fi Protected Setup) then you can use this method to setup the EW-7438PTn in extender or adapter/bridge mode, instead of the setup wizard described in II. Installation.

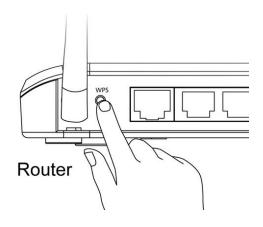


Please do not hold the WPS button for too long – this may reset your device.

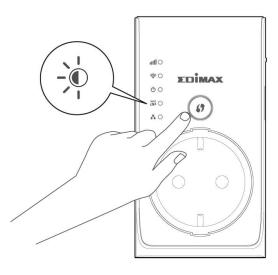
1. Press the WPS button on your wireless router/access point for the correct length of time to activate its WPS.



Please check the instructions for your wireless device for how long you need to hold down its WPS button to activate WPS.



2. Within two minutes, press the WPS button on the EW-7438PTn for 2 – 5 seconds to activate WPS. The green WPS LED will flash to indicate that WPS is active.

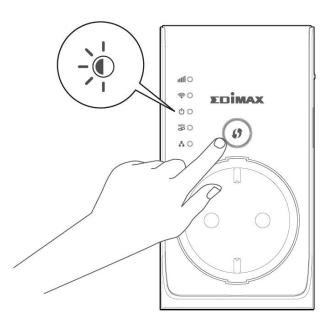


3. The devices will establish a connection. The **green** WPS LED on the EW-7438PTn will display **on** for 5 minutes to indicate a successful connection.

I-8. Reset to Factory Default Settings

If you experience problems with your extender or if you want to change the extender to a different operating mode, you can reset the device back to its factory settings. This resets **all** settings back to default.

1. Press and hold the WPS/Reset button for at least 10 seconds and release when the green power LED is flashing.



2.Wait for the extender to restart. The extender is ready for setup when the green power LED displays on.

I-9. 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.

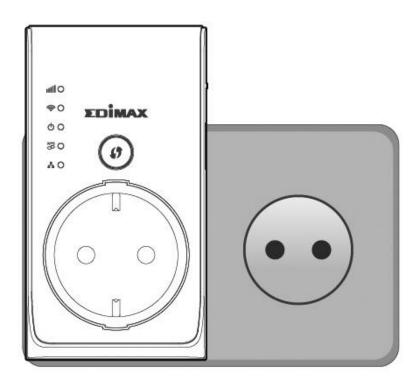
- 1. The device is designed for indoor use only; do not place it outdoors.
- 2. Do not place the device in or near hot/humid places, such as a kitchen or bathroom.
- 3. Do not pull any connected cable with force; carefully disconnect it from the EW-7438PTn.
- 4. Handle the device with care. Accidental damage will void the warranty of the device.
- 5. The device contains small parts which are a danger to small children under 3 years old. Please keep the device out of reach of children.
- 6. Do not place the device on paper, cloth, or other flammable materials. The device may become hot during use.
- 7. There are no user-serviceable parts inside the device. If you experience problems with the device, please contact your dealer of purchase and ask for help.
- 8. The device 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 EW-7438PTn then unplug the device immediately, as far as it is safely possible to do so. Call your dealer of purchase for help.

II. Installation

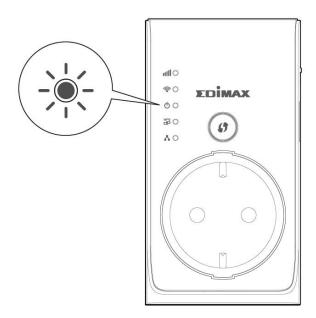
The EW-7438PTn has three different operating modes which you can choose depending on your network requirements. Each mode is described below:

Wi-Fi Extender	The device connects wirelessly to your existing network and repeats the wireless signal. Location: The best location for your extender is roughly in the middle between your existing wireless router/access point and the dead zone. The extender needs to receive a good Wi-Fi signal from your router/access point.
Wi-Fi Adapter/ Wi-Fi Bridge	The device connects to an Ethernet device such as a games console or smart TV via Ethernet cable and provides wireless Internet access for that device. Location: Within Wi-Fi coverage, close to your wired network device.
Wi-Fi Access Point	The device connects to an existing router via Ethernet cable and provides wireless Internet access for your network devices. Location: Connected to your router via Ethernet cable.

1. Plug the EW-7438PTn into a power socket.



2. The green power LED will flash while the system is booting up. The device is ready when the green power LED displays on.



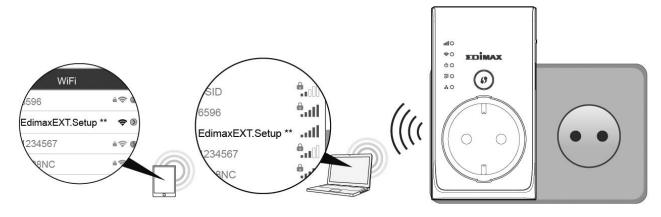
3. Use a Wi-Fi device (e.g. computer, tablet, smartphone) to search for a Wi-Fi network with the SSID EdimaxEXT.Setup ** and connect to it.

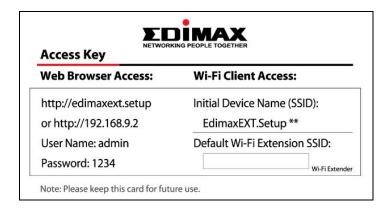


If you are using a computer, please disconnect any Ethernet cables. For mobile devices, iOS 6 or Android 4.x or above is required.



The last two characters of the SSID (Edimaxext.Setup**) will be unique numbers according to your device e.g." EdimaxEXT. Setup c1". Your unique SSID is displayed on the product label along with the included access key card.





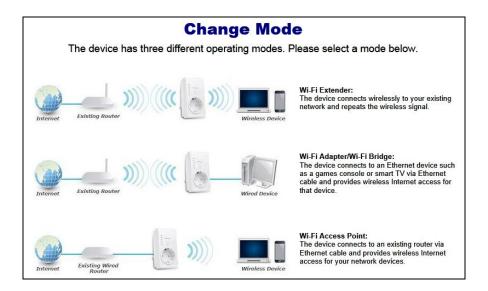
4. Open a web browser and if you do not automatically arrive at the "Get Started" screen shown below, enter the URL *http://edimaxext.setup* and click "Get Started" to begin the setup process.





If you cannot access http://edimaxext.setup, please make sure your computer is set to use a dynamic IP address. For more information please refer to VIII-1. Configuring your IP address.

5. Select an operating mode for your EW-7438PTn and follow the appropriate chapter for each mode below if you need more help.



II-1. Wi-Fi Extender Mode

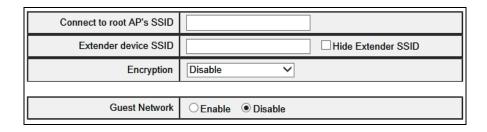
1. Please read the on screen instructions about selecting a good location for your wireless extender and then click "NEXT" to continue. You can check your signal strength on the next page.



2. Select your Wi-Fi network from the list.

.4GHz	connect this device to one of the following Wi-	Signal Strengt
0	6208AC_2.4G	100%
0	CAP1200-g	100%
0	EDIMAX_2.4G	100%
0	James_RT	100%
0	MIS-Jacky	100%
0	PP-6476ND-2.4G	100%
0	EdimaxHQ	100%
0	OBM-Dlink817_2.4G	92%
0	EdimaxHQ	92%
0	605L	84%
0	BWEDIMAX	84%
0	TS-IP_Surveillance	84%
0	6428v3 BT	76%
0	2.4GWPA+WPA2-TKIP+AES	76%
0	2.4GWPA2-AES	76%
0	2.4GWPA-TKIP+AES	76%
0	2.4GWPA2-TKIP	76%
0	2.4GWPA2-TKIP+AES	76%
0	2.4GWPA+WPA2-TKIP	76%
0	2.4GWPA+WPA2-AES	76%
0	2.4GWPA-TKIP	76%
0	2.4GWEP-OPEN-128bit	68%
0	2.4GWEP-OPEN-64bit	68%
0	2.4GWEP-Shard-128bit	68%

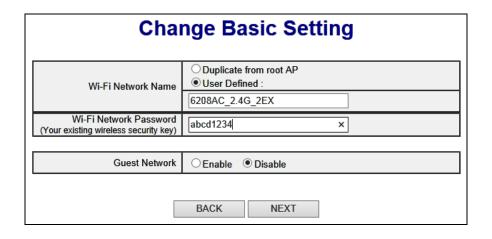
A hidden SSID is one that is not publically displayed when scanning for available Wi-Fi networks. Hidden SSID settings are usually available in the configuration options of your router. If you use a hidden SSID, check the "Connect to a hidden network" box and enter the information manually.



3. Select whether to use a different SSID ("User Defined") or the same SSID ("Duplicate from root AP") for your extender, and enter your existing Wi-Fi password. Click "Next" to continue.

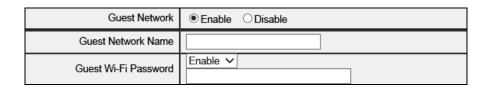


For "User Defined" the Wi-Fi extender's default wireless network name (SSID) is your existing router/access point's SSID + 2EX. For example if your router's SSID is "Your SSID" then the EW-7438PTn's SSID will be "Your SSID 2EX". You can change the extender's SSID if you wish.

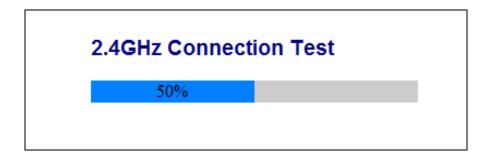




You can also enable an additional quest Wi-Fi network. A quest Wi-Fi network is another SSID with a different name and password. Select "Enable" and enter a guest network name and password if you wish.



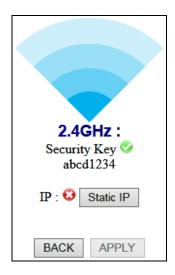
4. Please wait while the EW-7438PTn tests the connection.



If your Wi-Fi extender fails to connect (below) to your existing nouter/access point, click the "BACK" button and ensure you entered the correct Wi-Fi network password.



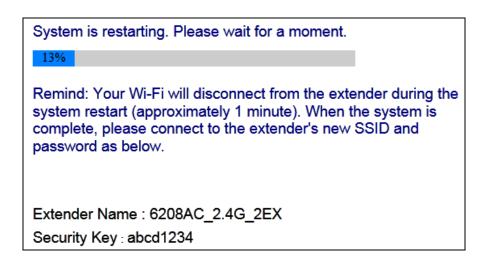
If your Wi-Fi extender cannot obtain an IP address (below) from your existing router/access point then click the "Static IP" button to assign an IP address to the extender. For more guidance please refer to the VIII-1. Configuring your IP address.



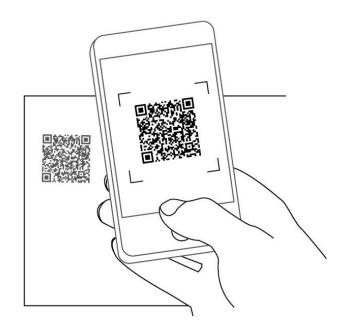
5. When the connection test is complete, click "Apply" to restart the extender.



6. Please wait a moment until the extender is ready.



7. A final congratulations screen will indicate that setup is complete. The EW-7438PTn is working and ready for use - the amber signal strength LED should display **on** or **flash** depending on your signal strength. To download the EdiRange app, scan the QR code.



Android:



iOS:



8. Please close the browser window. You can now connect to the extender's new SSID on a wireless device within range such as a computer, smartphone or tablet.



The password for your Wi-Fi extender's SSID is the same as for your router's SSID.

For more advanced configurations, use the browser based configuration interface (refer to III. Browser Based **Configuration Interface**).



Wi-Fi Adapter/Bridge Mode II-2.

1. Select your Wi-Fi network from the list and enter the security key/password.

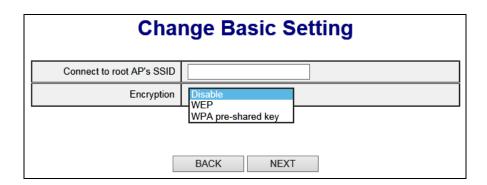
	Please connect this device to one of the following Wi	-Fi networks.
2.4GHz	SSID	Signal Strengtl
0	CAP1200-g	100%
0	EDIMAX_2.4G	100%
0	6208AC_2.4G	100%
0	MIS-Jacky	100%
0	PP-6476ND-2.4G	100%
0	OBM-Dlink817_2.4G	92%
0	BWEDIMAX	92%
0	EdimaxHQ	92%
0	EdimaxHQ	84%
0	2.4GWPA-AES	84%
0	6428v3 BT	84%
0	TS-100M	84%
0	2.4GWPA-TKIP+AES	84%
0	605L	76%
0	2.4GWPA+WPA2-TKIP+AES	76%
0	2.4GWPA-TKIP	76%
0	2.4GWPA+WPA2-TKIP	68%
0	2.4GWEP-Shard-128bit	68%
0	2.4GWPA2-AES	68%
0	2.4GWPA2-TKIP+AES	68%
0	2.4GWPA+WPA2-AES	68%
0	test-2.4G	68%
0	2.4GWEP-Shard-64bit	68%
0	2.4GWEP-OPEN-128bit	68%
Connect to a hid	den network	



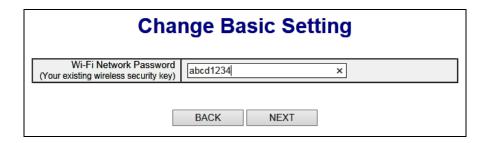
If the Wi-Fi network you wish to connect to does not appear, try dicking "Refresh".



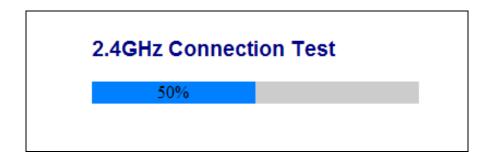
Do not check "Connect to a hidden network" unless you wish to connect to a hidden SSID instead.



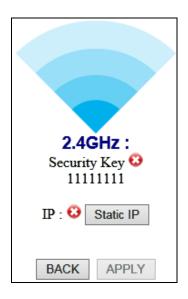
2. Enter the security key/password for your existing Wi-Fi.



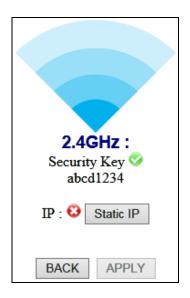
3. Please wait while the EW-7438PTn tests the connection.



If your Wi-Fi extender fails to connect (below) to your existing router/access point, click the "BACK" button and ensure you entered the correct Wi-Fi network password.



If your Wi-Fi extender cannot obtain an IP address (below) from your existing router/access point then click the "Static IP" button to assign an IP address to the extender. For more guidance please refer to the VIII-1. Configuring your IP address.



4. When the connection test is complete, click "Apply" to restart the extender.



5. Please wait a moment until the EW-7438PTn is ready.

System is restarting. Please wait for a moment.

24%

Device will take about 1 minute to save setting and restart, the initial configuration SSID "EdimaxEXT.Setup" will be off.

Your Wi-Fi may disconnect it's connection with Extender.

Extender Name: 6208AC_2.4G

Security Key: abcd1234

6. A final congratulations screen will indicate that setup is complete. *Please* close the browser window.

Congratulations.

"Your extender has successfully established a connection. You can close this browser and let your wireless device connect back to existing Wi-Fi network."

Extender Name: 6208AC 2.4G

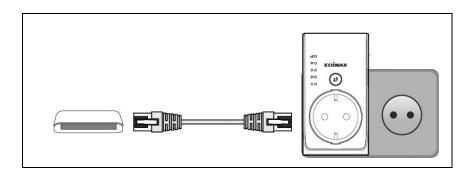
Security Key: abcd1234

Starting connecting Wi-Fi extender's Ethernet port to any Ethernet device for wireless connectivity.

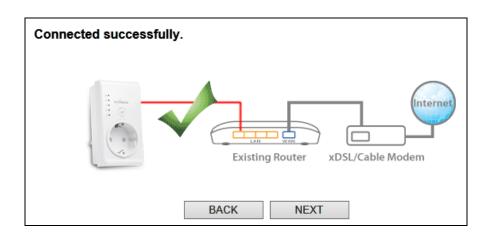
- **7.** The EW-7438PTn is working and ready for use as a wireless bridge. Use an Ethernet cable to connect the EW-7438PTn to the Ethernet port on your network device.
- **8.** Ensure the EW-7438PTn is on and then use your network device to connect to your network as usual.

II-3. Wi-Fi Access Point Mode

1. Connect the LAN port of your EW-7438PTn to the LAN port of your existing router using an Ethernet cable, and then click "Next".



2. Click "Next" to continue.



3. Select "Obtain an IP address automatically" or "Use the following IP address" for your EW-7438PTn. If you are using a static IP, enter the IP address, subnet mask, default gateway and DNS. Click "Next" to proceed to the next step.



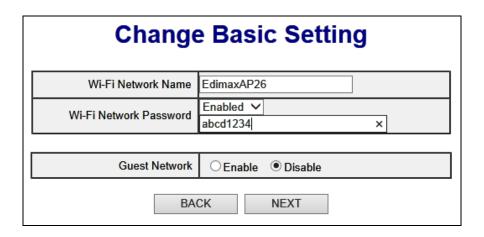
"Obtain an IP address automatically" is the recommended setting for most users. For more guidance on static IP addresses, please refer to VIII-1. Configuring your IP address.

Management IP Please set the IP address of the access point. If you are using a static IP, enter the IP address, subnet mask and default gateway. Click Next to proceed to the next step. Obtain an IP address automatically. Use the following IP address. IP Address: 192 Subnet Mask: 255 255 255 Gateway Address: DNS:

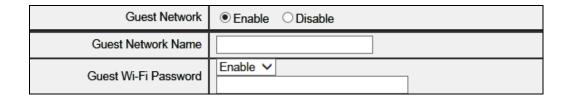
4. Enter a name and password for your wireless network, then click "Next" to continue.

NEXT

BACK



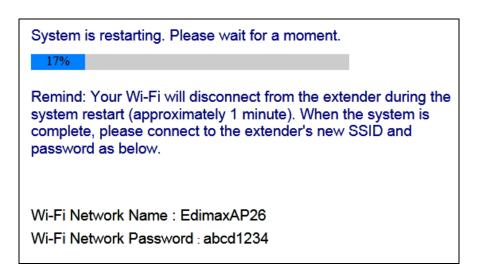
You can also enable an additional guest Wi-Fi network. A guest Wi-Fi network is another SSID with a different name and password. Select "Enable" and enter a guest network name and password if you wish.



5. A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click "Apply" to restart the EW-7438PTn.



6. Please wait a moment until the EW-7438PTn is ready.



7. A final congratulations screen will indicate that setup is complete. *Please close the browser window.* The EW-7438PTn is working and ready for use. You can now connect to the device's new SSID.

Congratulations. You have successfully completed the configuration. You can close this browser window and reconnect to this AP device with new wireless security key now. Wi-Fi Network Name: EdimaxAP26 Wi-Fi Network Password: abcd1234

III. Browser Based Configuration Interface

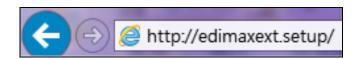
After you have setup the EW-7438PTn as detailed in II. Installation or the included Quick Installation Guide, you can use the browser based configuration interface to configure advanced settings.



Please ensure that your computer is set to use a dynamic IP address. Refer to <u>VIII-1</u>. <u>Configuring your IP address</u> for more information.

III-1. Login

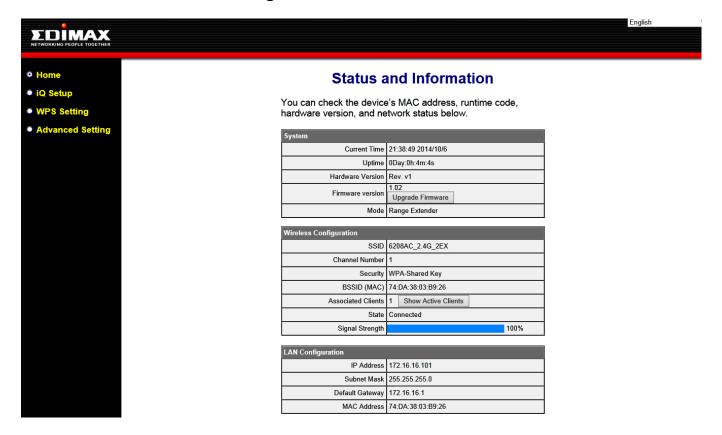
1. To access the browser based configuration interface enter http://edimaxext.setup into the URL bar of a browser on a network device connected to the same Wi-Fi network as the EW-7438PTn.



2. You will be prompted for a username and password. The default username is "admin" and the default password is "1234".

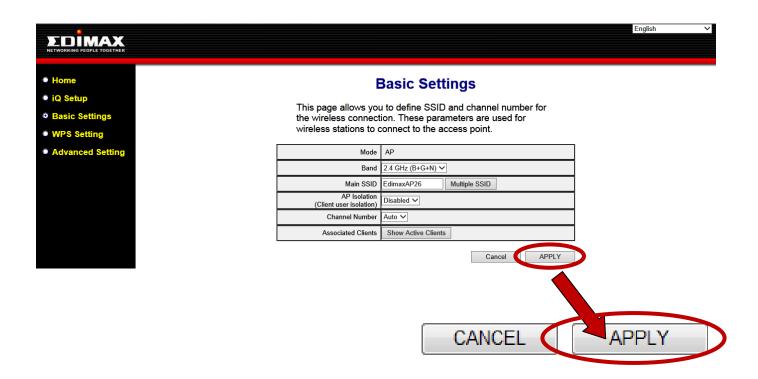


3. You will arrive at the "Status and Information" screen. Use the menu down the left side to navigate.



III-2. Save Settings

1. After you make any changes to the EW-7438PTn's settings, please click "APPLY".



2. Then, select "CONTINUE" to save changes but not apply them yet, or select "APPLY" to restart the EW-7438PTn and bring the changes into effect.

Settings saved successfully!

Click CONTINUE to continue other configuring settings, or click APPLY to restart the system and make the changes take effect.





The EW-7438PTn needs to restart in order to apply and bring any changes into effect. Use the "CONTINUE" button to make several changes and apply them all together in one restart.

III-3. Main Menu

The main menu displays different options depending on your device's operating mode. Please refer to the following chapters for guidance on each mode.

Wi-Fi Extender Wi-Fi Adapter/Bridge Access Point Home IQ Setup IQ Setup Advanced Setting Advanced Setting Advanced Setting Advanced Setting Advanced Setting Advanced Setting

IV. Extender Mode

IV-1. Home

The "Status and Information" page displays basic system information about the device, arranged into three categories: system, wireless configuration & LAN configuration.



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

Status and Information

You can check the device's MAC address, runtime code, hardware version, and network status below.

System	
Current Time	22:36:37 2014/10/7
Uptime	0Day:0h:30m:35s
Hardware Version	Rev. v1
Firmware version	1.02 Upgrade Firmware
Mode	Range Extender

Wireless Configuration		
SSID	6208AC_2.4G_2EX	
Channel Number	1	
Security	WPA-Shared Key	
BSSID (MAC)	74:DA:38:03:B9:26	
Associated Clients	0 Show Active Clients	
State	Connected	
Signal Strength	100%	

LAN Configuration		
IP Address	172.16.16.100	
Subnet Mask	255.255.255.0	
Default Gateway	172.16.16.1	
MAC Address	74:DA:38:03:B9:26	

Current Time	Current time and date.
Uptime	Displays the total time since the device was
	turned on.
Hardware Version	Displays the hardware version.
Firmware Version	Displays the firmware version.
Mode	Displays the operating mode.
SSID	Displays the EW-7438PTn's SSID. The SSID is
	the name used to identify a wireless network.
Channel Number	Displays the current wireless channel number.
Security	Displays the current wireless security setting.
BSSID (MAC)	Displays the device's BSSID. The BSSID
	identifies the EW-7438PTn in the network,
	and is the same as the device's MAC address.
Associated Clients	Displays the number of clients connected to
	the EW-7438PTn. Click "Show Active Clients"
	to display a new window showing information
	about wireless clients.
State	Displays the current connection status of the
	EW-7438PTn.
Signal Strength	Displays the signal strength for the specified
	SSID.
IP Address	Displays the IP address of this device.
Subnet Mask	Displays the subnet mask of the IP address.
Default	Displays the IP address of the default
Gateway	gateway.
MAC address	Displays the device's MAC address. The MAC
	address is a unique, fixed ID for this device, it
	cannot be modified.

IV-2. iQ Setup

You can run the setup wizard again to reconfigure the iQ Setup basic settings of the device. Please refer to II-1. Wi-Fi **Extender Mode Step 2** onwards for guidance.



If you wish to change the operating mode, please reset the EW-7438PTn back to factory default settings.

IV-3. WPS Settings

WPS Setting

Wi-Fi Protected Setup is a simple way to establish connections between WPS compatible devices. When

WPS is activated in the correct manner and at the correct time for two compatible devices, they will automatically connect. PIN code WPS includes the use of a PIN code between the two devices for verification.

The WPS Settings page displays settings for WPS between your extender and a wireless client. For WPS Setup between your extender and router/access point, please use the WPS button as described in II-4. WPS Setup.

2.4G Wi-Fi Protected Setup Information

WPS Status	Configured
Self PinCode	01902952

Device Configure

Configuration Mode Device is as an AP	Registrar
Configure via Push Button	Start PBC
Input Client PIN Code	Send PIN

WPS Status Self PIN Code	Displays "Configured" or "unConfigured" depending on whether WPS and SSID/security settings for the device have been configured or not, either manually or using the WPS button. Displays the WPS PIN code of the device.
Configuration Mode	The configuration mode of the device's WPS setting is displayed here. "Registrar" means the device acts as an access point for a wireless client to connect to and the wireless client(s) will follow the device's wireless settings.
Configure via Push Button	Click "Start PBC" (Push-Button Configuration) to activate WPS on the access point. WPS will be active for 2 minutes.
Input Client PIN Code	Enter the wireless client's PIN code here and click "Start PIN" to activate PIN code WPS. Refer to your wireless client's documentation if you are unsure of its PIN code.

Advanced Setting IV-4.

- Advanced Setting
 - WLAN 2.4GHz Security
 - ▶ Time Settings
 - Scheduling setting
 - ▶ Administration Utility
 - ▶ Configuration Tools

In "Advanced Setting" you can adjust the power output of the EW-7438PTn. The submenu also allows you to configure security, time settings and scheduling settings as well as various administrative and management functions.

Advanced Setting

Advanced functions of the extender can be configured below.



Tx Power	You can adjust the level of wireless output power as a percentage. Depending on the size of your location and required coverage, you may not require 100% output power. Reducing the output power can enhance security since your Wi-Fi signal will not extend to potential malicious/unknown users in
	distant areas.



Tx power can also be adjusted using the slide switch on the side of the device. Refer to 1-5. Slide switch.

IV-4-1. WLAN 2.4GHz Security

WLAN 2.4GHz Security

Security settings for your extender's 2.4GHz Wi-Fi network can be configured below - independent of your root Wi-Fi network's security settings.

Broadcast SSID	● Enable O Disable
Device SSID	6208AC_2.4G_2EX
Security Type	WPA pre-shared key
Security Key	11112222
Guest Network	● Enable ○ Disable
Guest Network Name	Guest Network
Guest Network Name Guest Wi-Fi encryption	Guest Network WPA pre-shared key ✓
Guest Wi-Fi encryption	WPA pre-shared key ✓

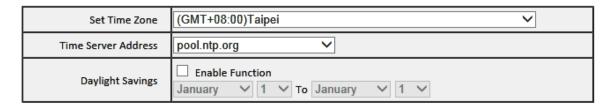
Broadcast SSID	Enable or disable SSID broadcast. When enabled, the SSID will be visible to clients as an available Wi-Fi network. When disabled, the SSID will not be visible as an available Wi-Fi network to clients — clients must manually enter the SSID in order to connect. A hidden (disabled) SSID is typically more secure than a visible (enabled) SSID. WPS (Wi-Fi Protected Setup) is also disabled when SSID broadcast is disabled.
Device SSID	This is the name of your Wi-Fi network for identification, also sometimes referred to as "SSID". The SSID can consist of any combination of up to 32 alphanumerical characters.
Security Type	The security/encryption type of your EW-7438PTn's wireless network is displayed here. The security/encryption type is the

	same as your existing router/access point.
Security Key	This is the security key for your EW-7438PTn.
	The security key is the same as your existing
	router/access point.
Guest Network	You can also enable an additional guest Wi-Fi
	network. A guest Wi-Fi network is another
	SSID with a different name and password.
	Select enable or disable.
Guest Network	Enter a name (SSID) for your guest Wi-Fi
Name	network.
Guest Wi-Fi	Select whether to disable encryption for your
Encryption	guest Wi-Fi or use WPA pre-shared key
	encryption.
WPA Unicast Cipher	WPA2(AES) is selected automatically and is
Suite	the most secure type.
Pre-Shared Key	Choose a format for your pre-shared key
Format	(Wi-Fi password). Select from "passphrase"
	(any alphumeric characters 0-9 a-z A-Z) or
	"Hex" (limited to characters 0-9 a-f A-F).
Guest Wi-Fi	Enter or modify the password for your guest
Password	Wi-Fi network here.

IV-4-2. Time Settings

Time Zone

Set the time zone of the extender by synchronizing with Network Time Protocol server, the time will be used for Wi-Fi scheduling function.



Set Time Zone	Select the time zone of your country or
	region.
Time Server Address	The extender supports NTP (Network Time
	Protocol), select a time server from the drop
	down menu.
Daylight Savings	If your country/region uses daylight saving
	time, please check the "Enable Function"
	box, and select the start and end date.

IV-4-3. Scheduling Setting

Scheduling setting

Scheduling function can be configured below for specific service.

	Schedule 1	「able (Up to 10 sets): ● Enable ○ Disable		
NO.	Service	Schedule description	Schedule	Select
1	Wireless off		Edit	Delete
A	dd			
		Cance	el /	APPLY

Add	Click to add a new schedule in a new window (see below).
Edit	Edit an existing schedule in a new window.
Delete	Delete the specified schedule.

Add

When you click "Add" to add a new schedule, a new window will open as shown below:

Start Time (hh.mm) End Time (hh.mm) Select Sunday 0 v: 0 v 0 v: 0 v 0 Monday 0 v: 0 v 0 v: 0 v 0 Tuesday 0 v: 0 v 0 v: 0 v 0 Wednesday 0 v: 0 v 0 v: 0 v 0 Thursday 0 v: 0 v 0 v: 0 v 0 Friday 0 v: 0 v 0 v: 0 v 0 Saturday 0 v: 0 v 0 v: 0 v 0	Service : Wireless off Led off Auto reboot	Schedule description :		
Monday 0 v: 0 v 0 v: 0 v 0 Tuesday 0 v: 0 v 0 v: 0 v 0 Wednesday 0 v: 0 v 0 v: 0 v 0 Thursday 0 v: 0 v 0 v: 0 v 0 Friday 0 v: 0 v 0 v: 0 v 0 Saturday 0 v: 0 v 0 v: 0 v 0	Auto Teboot	Start Time (hh.mm)	End Time (hh.mm)	Select
Tuesday 0 v: 0 v 0 v: 0 v Wednesday 0 v: 0 v 0 v: 0 v Thursday 0 v: 0 v 0 v: 0 v Friday 0 v: 0 v 0 v: 0 v Saturday 0 v: 0 v 0 v: 0 v	Sunday	0 🗸 : 0 🗸	0 🗸 : 0 🗸	
Wednesday 0 v: 0 v 0 v: 0 v 0 Thursday 0 v: 0 v 0 v: 0 v 0 Friday 0 v: 0 v 0 v: 0 v 0 Saturday 0 v: 0 v 0 v: 0 v 0	Monday	0 🗸 : 0 🗸	0 🗸 : 0 🗸	
Thursday 0 ∨ : 0 ∨ 0 ∨ : 0 ∨ □ Friday 0 ∨ : 0 ∨ 0 ∨ : 0 ∨ □ Saturday 0 ∨ : 0 ∨ □ □	Tuesday	0 🗸 : 0 🗸	0 🗸 : 0 🗸	
Friday 0 ∨ : 0 ∨ 0 ∨ : 0 ∨ Saturday 0 ∨ : 0 ∨ 0 ∨ : 0 ∨	Wednesday	0 🗸 : 0 🗸	0 🗸 : 0 🗸	
Saturday 0 V: 0 V 0 V: 0 V	Thursday	0 🗸 : 0 🗸	0 🗸 : 0 🗸	
	Friday	0 🗸 : 0 🗸	0 🗸 : 0 🗸	
Even day	Saturday	0 🗸 : 0 🗸	0 🗸 : 0 🗸	
Lvery day	Every day	0 🗸 : 0 🗸	0 🗸 : 0 🗸	

Cancel

APPLY

- **1.** Select which function to schedule using the "Service" menu and enter a name for the schedule in the "schedule description" box.
- **2.** Specify a start and end time (hours and minutes) using the drop-down menus for your required day.
- **3.** Select the schedule in the "Select" column and click "APPLY" to save the schedule, or "Back" to cancel and go back to the previous screen.



If you need to use the extender during a scheduled off period, press the WPS/Reset button once to "wake up" the extender and resume Wi-Fi coverage.

IV-4-4. Administration Utility

You can change the password used to login to the browser-based configuration interface here. It is advised to do so for security purposes. You can also configure the EW-7438PTn's IP address.



Please make a note of the new password. In the event that you forget the password and are unable to login to the browser based configuration interface, see <u>II-5</u>. Reset to factory default settings for how to reset the device.

Administration Utility

The extender's password and IP address can be modified below.

Password Settings

Current Password	
New Password	
Re-Enter Password	

Management IP

Obtain an IP address automatically		
Use the following IP address		
IP Address	192.168.9.2	
Subnet Mask	255.255.255.0	
Default Gateway		
DNS		

Current Password	Enter your current password.
New Password	Enter your new password.
Re-Enter Password	Confirm your new password.

IP Address	Specify an IP address here. This IP address will	
	be assigned to your EW-7438PTn.	
Subnet Mask	Input the subnet mask of the new IP address.	
Gateway Address	Input the network's gateway IP address.	
DNS	Enter the DNS address assigned by your ISP	
	here.	

IV-4-5. Configuration Tools

The "Configuration Tools" menu allows you to backup the EW-7438PTn's settings, restore the settings to a previous version or restore the EW-7438PTn back to its factory default state. You can also upgrade the firmware, reboot the device and export the system log.

Manage Settings

Save the current settings of the device to a .bin file, restore the settings of the device to a previously saved .bin file or reset the device to its factory default settings.



Backup Settings	Click "Save" to save the current settings on
	your computer as config.bin file.
Restore Settings	Click "Browse" to find a previously saved
	config.bin file and then click "Upload" to
	replace your current settings.
Restore to Factory	Click "Reset" to restore settings to the factory
Default	default. A pop-up window will appear and ask
	you to confirm and enter your log in details.
	Enter your username and password and click
	"Ok". See below for more information.

Upgrade Firmware

You can upgrade the system firmware to a more recent version. You can download the latest firmware from the Edimax website. After the upgrade, the system will restart.

Upgrade Firmware

Upgrade the firmware to the most recent version - it is recommended that you use a wired connection for the procedure.





Do not switch off or disconnect the device during a firmware upgrade, as this could damage the device. It is recommended that you use a computer for a firmware upgrade.

Browse	Open a new window to locate and select the
	firmware file in your computer.

Reboot

In the event that the router malfunctions or is not responding, then it is recommended that you restart the device.

Reboot

In the event that the device malfunctions or is not responding, you can perform a system reboot. Click on Apply - this will reboot the device, without affecting your existing settings.





Rebooting the EW-7438PTn will not affect the current configuration/settings of the device.

Apply	Click "Apply" to reboot the device. A status
	bar will indicate the progress of the reboot
	and you will see a confirmation screen when
	the reboot is complete.

System Log

You can export the system log to a separate file if you require.

System Log

Export system log

Export system log	Click to open a new window and select a
	location to save the log file.

V. Wi-Fi Adapter/Bridge Mode

V-1. Home

The "Status and Information" page displays basic system information about the device, arranged into three categories: system, wireless configuration & LAN configuration.



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

System	
Current Time	22:13:14 2014/10/8
Uptime	0Day:0h:2m:1s
Hardware Version	Rev. v1
Firmware version	1.02 Upgrade Firmware
Mode	Wi-Fi Bridge

Wireless Configuration	
SSID	6208AC_2.4G
Channel Number	2
Security	WPA-Shared Key
BSSID (MAC)	74:DA:38:03:B9:26
State	Connected
Signal Strength	100%

LAN Configuration		
IP Address	172.16.16.100	
Subnet Mask	255.255.255.0	
Default Gateway	172.16.16.1	
MAC Address	74:DA:38:03:B9:26	

Current Time	Displays the current time and date.
Uptime	Displays the total time since the device was
	turned on.
Hardware Version	Displays the hardware version.
Firmware Version	Displays the firmware version.
Mode	Displays the operating mode.
SSID	Displays your router/access point's SSID,
	sometimes also known as SSID. The SSID is the
	name used to identify a wireless network.
Channel Number	Displays the current wireless channel number.
Security	Displays the current wireless security setting.
BSSID (MAC)	Displays the device's BSSID. The BSSID
	identifies this device in the network, and is
	the same as the device's MAC address.
State	Displays the current connection state of the
	EW-7438PTn.
Signal Strength	Displays the signal strength for the specified
	Wi-Fi network.
IP Address	Displays the IP address of this device.
Subnet Mask	Displays the subnet mask of the IP address.
Default	Displays the IP address of the default
Gateway	gateway.
MAC address	Displays the device's MAC address. The MAC
	address is a unique, fixed ID for this device, it
	cannot be modified.

V-2. iQ Setup

You can run the setup wizard again to reconfigure the iQ Setup basic settings of the device. Please refer to II-2. Wi-Fi Adapter/Bridge Mode for guidance.

If you wish to change the operating mode, please reset the EW-7438PTn back to factory default settings.

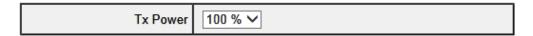
V-3. Advanced Setting

- Advanced Setting
 - ▶ Time Settings
 - ▶ Administration Utility
 - ▶ Configuration Tools

In "Wireless Advanced" you adjust the power output of the EW-7438PTn. The submenu also allows you to configure time settings and various administrative and management functions.

Advanced Setting

Advanced functions of the extender can be configured below.



Tx Power	You can adjust the level of wireless output
	power as a percentage. Depending on the size
	of your location and required coverage, you
	may not require 100% output power.
	Reducing the output power can enhance
	security since your Wi-Fi signal will not extend
	to potential malicious/unknown users in
	distant areas.

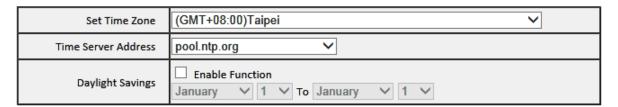


Tx power can also be adjusted using the slide switch on the side of the device. Refer to 1-5. Slide switch.

V-3-1. Time Settings

Time Zone

Set the time zone of the extender by synchronizing with Network Time Protocol server, the time will be used for Wi-Fi scheduling function.



Set Time Zone	Select the time zone of your country or
	region.
Time Server Address	The extender supports NTP (Network Time
	Protocol), select a time server from the drop
	down menu.
Daylight Savings	If your country/region uses daylight saving
	time, please check the "Enable Function"
	box, and select the start and end date.

V-3-2. Administration Utility

You can change the password used to login to the browser-based configuration interface here. It is advised to do so for security purposes. You can also configure the EW-7438PTn's IP address.



Please make a note of the new password. In the event that you forget the password and are unable to login to the browser based configuration interface, see <u>II-5</u>. Reset to factory default settings for how to reset the device.

Password Settings

Current Password	
New Password	
Re-Enter Password	

Management IP

Obtain an IP address automatically	
Use the following IP address	
IP Address	192.168.9.2
Subnet Mask	255.255.255.0
Default Gateway	
DNS	

Current Password	Enter your current password.
New Password	Enter your new password.
Re-Enter Password	Confirm your new password.

IP Address	Specify an IP address here. This IP address will
	be assigned to yourEW-7438PTn.
Subnet Mask	Input the subnet mask of the new IP address.
Gateway Address	Input the network's gateway IP address.
DNS	Enter the DNS address assigned by your ISP
	here.

V-3-3. Configuration Tools

The "Configuration Tools" menu allows you to backup the EW-7438PTn's settings, restore the settings to a previous version or restore the EW-7438PTn back to its factory default state. You can also upgrade the firmware, reboot the device and export the system log.

Manage Settings

Save the current settings of the device to a .bin file, restore the settings of the device to a previously saved .bin file or reset the device to its factory default settings.



Backup Settings	Click "Save" to save the current settings on
	your computer as config.bin file.
Restore Settings	Click "Browse" to find a previously saved
	config.bin file and then click "Upload" to
	replace your current settings.
Restore to Factory	Click "Reset" to restore settings to the factory
Default	default. A pop-up window will appear and ask
	you to confirm and enter your log in details.
	Enter your username and password and click
	"Ok". See below for more information.

Upgrade Firmware

You can upgrade the system firmware to a more recent version. You can download the latest firmware from the Edimax website. After the upgrade, the system will restart.

Upgrade Firmware

Upgrade the firmware to the most recent version - it is recommended that you use a wired connection for the procedure.





Do not switch off or disconnect the device during a firmware upgrade, as this could damage the device. It is recommended that you use a computer for a firmware upgrade.

Browse	Open a new window to locate and select the
	firmware file in your computer.

Reboot

In the event that the router malfunctions or is not responding, then it is recommended that you restart the device.

Reboot

In the event that the device malfunctions or is not responding, you can perform a system reboot. Click on Apply - this will reboot the device, without affecting your existing settings.





Rebooting the EW-7438PTn will not affect the current configuration/settings of the device.

Apply	Click "Apply" to reboot the device. A status
	bar will indicate the progress of the reboot
	and you will see a confirmation screen when
	the reboot is complete.

System Log

You can export the system log to a separate file if you require.

System Log

Export system log

Export system log	Click to open a new window and select a
	location to save the log file.

VI. **Access Point Mode**

VI-1. Home

The "Status and Information" page displays basic Home system information about the device, arranged into three categories: system, wireless configuration & LAN configuration.



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

System	
Current Time	15:48:01 2014/10/12
Uptime	0Day:0h:1m:2s
Hardware Version	Rev. v1
Firmware version	1.02 Upgrade Firmware
Mode	AP

Wireless Configuration	
SSID	EdimaxAP26
Channel Number	1
Security	WPA-Shared Key
BSSID (MAC)	74:DA:38:03:B9:26
Associated Clients	0 Show Active Clients
State	Connected

LAN Configuration	
IP Address	172.16.16.104
Subnet Mask	255.255.255.0
Default Gateway	172.16.16.1
MAC Address	74:DA:38:03:B9:26

Current Time	Displays the current time and date.
Uptime	Displays the total time since the device was
	turned on.
Hardware Version	Displays the hardware version.
Firmware Version	Displays the firmware version.
Mode	Displays the operating mode.
SSID	Displays the access point's SSID, sometimes
	also known as SSID. The SSID is the name used
	to identify a wireless network.
Channel Number	Displays the current wireless channel number.
Security	Displays the current wireless security setting.
BSSID (MAC)	Displays the device's BSSID. The BSSID
	identifies this access point in the network, and
	is the same as the device's MAC address.
Associated Clients	Displays the number of clients connected to
	the access point. Click "Show Active Clients"
	to display a new window showing information
	about wireless clients.
State	Displays the current connection state of the
	EW-7438PTn.
IP Address	Displays the IP address of this device.
Subnet Mask	Displays the subnet mask of the IP address.
Default	Displays the IP address of the default
Gateway	gateway.
MAC address	Displays the device's MAC address. The MAC
	address is a unique, fixed ID for this device, it
	cannot be modified.

VI-2. iQ Setup

You can run the setup wizard again to reconfigure the iQ Setup basic settings of the device. Please refer to **II-3. Wi-Fi** Access Point Mode Step 3 onwards for guidance.

If you wish to change the operating mode, please reset the EW-7438PTn back to factory default settings.

VI-3. Basic Settings

Basic Settings

The "Basic Settings" screen displays various settings for your wireless network.

Mode	AP
Band	2.4 GHz (B+G+N) V
Main SSID	EdimaxAP26 Multiple SSID
AP Isolation (Client user isolation)	Disabled V
Channel Number	Auto 🗸
Associated Clients	Show Active Clients

Mode	The EW-7438PTn's mode is displayed here.
Band	Select the wireless standard used for the
	EW-7438PTn. "2.4GHz (B+G+N)" means that
	802.11b, 802.11g, and 802.11n wireless
	clients can connect to the EW-7438PTn.
	"2.4GHz (B+G) means only 802.11b & 802.11g
	wireless clients can connect to the
	EW-7438PTn.
Main SSID	This is the name of your Wi-Fi network for
	identification, also known as "SSID". The SSID
	can consist of any combination of up to 32
	alphanumerical characters.
Multiple SSID	Click "Multiple SSID" to open a new window
	and assign up to four SSIDs to this access
	point. Please see the following page for more
	details.
AP Isolation	When "Enabled", wireless clients will be able
	to access the Internet, but will not be able to
	communicate with each other. This applies to
	clients connected to the MAIN ESSID only.
Channel Number	Select a wireless radio channel or use the
	default "Auto" setting from the drop-down
	menu.
Associated Clients	Click "Show list" to display a new window
	showing information about wireless clients.
	Please disable any pop-up blockers if you
	have difficulty using this function.

Multiple SSID

This page allows you to configure the wireless settings for multiple ESSID's.

Multiple SSID

This page allows you to configure the wireless settings for Multiple SSIDs. The wireless security settings for these SSIDs can be configured in Security page.

			Basic Settings			Advanced Setting	
No.	Enabled	Associated Clients	SSID	Broadcast SSID	WMM	Band	AP Isolation (Client user isolation)
SSID1	✓	Show Active Clients	Guest Netwo	Enabled V	Disabled >	2.4 GHz (B+G+N) V	Disabled >

No.	Identification number of each additional SSID.
Enable	Check the box to enable or disable an SSID.
SSID	Enter the SSID (the name used to identify this
	wireless access point) here. You can input up
	to 32 alphanumerical characters. Please note
	that the SSID is case sensitive.
Broadcast SSID	Enable or disable SSID broadcast. When
	enabled, the ESSID 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.
WMM	WMM (Wi-Fi Multimedia) technology can
	improve the performance of certain network
	applications, such as audio/video streaming,
	network telephony (VoIP), and others. When
	WMM is enabled, the access point will
	prioritize different kinds of data and give
	higher priority to applications which require
	instant responses. This improves the
	performance of such network applications.
Band	Select the wireless standards you wish to use
	for the access point: 802.11b, 802.11g &
	802.11n or 802.11b & 802.11g. Only wireless
	clients of the same standard(s) as you select
	will be able to connect.
AP Isolation	When "Enabled", wireless clients will be able

to access the Internet, but will not be able to
communicate with each other.

VI-4. WPS Settings

WPS Setting
Wi-Fi Protected Setup is a simple way to establish connections between WPS compatible devices. When

WPS is activated in the correct manner and at the correct time for two compatible devices, they will automatically connect. PIN code WPS includes the use of a PIN code between the two devices for verification.

The WPS Settings page displays settings for WPS between your extender and a wireless client.



Do not use the physical WPS button (described in <u>II-4. WPS Setup</u>) in access point mode. Use the settings below instead.

2.4G Wi-Fi Protected Setup Information

WPS Status	Configured
Self PinCode	97681021
Device SSID	EdimaxAP26
Security Type	WPA pre-shared key
Passphrase Key	abcd1234

Device Configure

Configuration Mode Device is as an AP	Registrar
Configure via Push Button	Start PBC
Input Client PIN Code	Send PIN

WPS Status	Displays "Configured" or "unConfigured" depending on whether WPS and SSID/security settings for the device have been configured or not, either manually or using the WPS button.
Self PIN Code	Displays the WPS PIN code of the device.
Device SSID	Displays the SSID of the device.
Security Type	Displays the wireless security authentication mode of the device.
Passphrase Key	Displays the wireless security authentication key.

Configuration Mode	The configuration mode of the device's WPS setting is displayed here. "Registrar" means the device acts as an access point for a wireless client to connect to and the wireless client(s) will follow the device's wireless settings.
Configure via Push	Click "Start PBC" (Push-Button Configuration)
Button	to activate WPS on the EW-7438PTn. WPS will
	be active for 2 minutes.
Input Client PIN	Enter the wireless client's PIN code here and
Code	click "Start PIN" to activate PIN code WPS.
	Refer to your wireless client's documentation if
	you are unsure of its PIN code.

VI-5. Advanced Setting

- Advanced Setting
 - Security
 - ▶ MAC Filtering
 - ▶ Time Settings
 - Scheduling setting
 - Administration Utility
 - ▶ Configuration Tools

Using the "Advanced Setting" menu, you can configure security, MAC filtering and various other settings.

The settings on the "Advanced Setting" page shown below 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.

Fragment Threshold	2346	(256-2346)
RTS Threshold	2347	(0-2347)
Beacon Interval	100	(20-1024 ms)
DTIM Period	3	(1-10)
Data Rate	Auto 🗸	
N Data Rate	Auto 💙	
Channel Width	Auto 20/40N	ıHz ○20MHz
Preamble Type	Short Prear	mble O Long Preamble
Broadcast SSID	Enabled	Disabled
CTS Protect	Auto A	lways O None
Tx Power	100 % 🗸	

Fragment Threshold	Set the Fragment threshold of the wireless
	radio. The default value is 2346.
RTS Threshold	Set the RTS threshold of the wireless radio.
	The default value is 2347.
Beacon Interval	Set the beacon interval of the wireless radio.
	The default value is 100.
DTIM Period	Set the DTIM period of wireless radio. The
	default value is 3.
Data Rate	Set the wireless data transfer rate. The
	default is set to auto.
N Data Rate	Set the data rate of 802.11n. The default is
	set to auto.

Channel Width	Select wireless channel width (bandwidth
	used by wireless signals from the device) –
	the recommended value is Auto 20/40MHz.
Preamble Type	Set the wireless radio preamble type. The
	default value is "Short Preamble".
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. WPS
	(Wi-Fi Protected Setup) is also disabled when
	SSID broadcast is disabled.
CTS Protect	Enabling this setting will reduce the chance
	of radio signal collisions between 802.11b
	and 802.11g wireless access points. It's
	recommended to set this option to "Auto".
Tx Power	Set the power output of the wireless radio
	(Tx). 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, or save
	energy. You can also adjust the Tx power
	using the slide switch on the side of the
	device, refer to I-5. Slide switch.

VI-5-1. Security

The access point provides a variety of wireless security options (wireless data encryption). When data is encrypted, information transmitted wirelessly cannot be read by anyone who does not know the encryption key. The "Security" screen displays security settings for your EW-7438PTn.

Select SSID

Device SSID	EdimaxAPd7 V
-------------	--------------

Security Settings

Security Type	WPA pre-shared key ∨
WPA Unicast Cipher Suite	○WPA(TKIP) ●WPA2(AES) ○WPA2 Mixed
Pre-Shared Key Format	Passphrase
Security Key	abcd1234

Device SSID	Select which SSID to configure
	security settings for.

Security Type	Select a security type for the
	specified SSID. Refer to the next
	sections for more details about each
	security type.

VI-5-1-1. Disable

Encryption is disabled and no password/key is required to connect to the EW-7438PTn.



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

• Security Settings

Security Type Disable ▼

Enable 802.1x Authentication

Enable 802.1x	Check the box to enable the 802.1x
Authentication	authentication. A RADIUS server is required
	to perform 802.1x authentication: enter the
	RADIUS IP address, port and password.

VI-5-1-2. WEP

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



WEP supports data rates up to 54Mbps.

Security Settings



Enable 802.1x Authentication

Key Length	Select 64-bit or 128bit. 128-bit is more secure than 64-bit.
Key Format	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).
Security Key	Enter your encryption key/password according to the format you selected above. A complex, hard-to-guess key is recommended. Check the "Hide" box to hide your password from being displayed on-screen.
Enable 802.1x	Check the box to enable the 802.1x
Authentication	authentication. A RADIUS server is required to
	perform 802.1x authentication: enter the
	RADIUS IP address, port and password.

VI-5-1-3. WPA pre-shared key

WPA pre-shared key is the recommended and most secure encryption type.



A WPA (TKIP) supports data rates up to 54Mbps.

Security Settings

- country country	
Security Type	WPA pre-shared key ▼
WPA Unicast Cipher Suite	
Pre-Shared Key Format	Passphrase ▼
Security Key	abcd1234

WPA Unicast Cipher Suite	Select from WPA (TKIP), WPA2 (AES) or WPA2 Mixed. WPA2 (AES) is safer than WPA (TKIP). Please make sure your wireless client supports your selection. WPA2 (AES) is recommended followed by WPA2 Mixed if your client does not support WPA2 (AES).
Pre-shared Key Format	Choose from "Passphrase" (8 – 63 alphanumeric characters) or "Hex" (up to 64 characters from 0-9, a-f and A-F).
Security Key	Please enter a key according to the format you selected above. A complex, hard-to-guess key

is recommended. Check the "Hide" box to hide
your password from being displayed on-screen.

VI-5-1-4. WPA RADIUS

WPA RADIUS is a combination of WPA encryption and RADIUS user authentication. If you have a RADIUS authentication server, you can authenticate the identity of every wireless client against a user database.

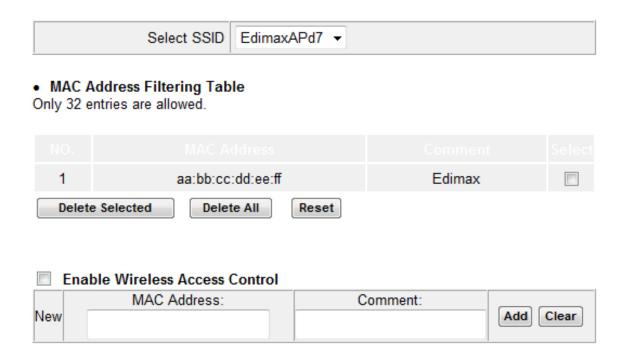
· Security Settings

Security Type	WPA RADIUS ▼
WPA Unicast Cipher Suite	○ WPA(TKIP) ● WPA2(AES) ○ WPA2 Mixed
RADIUS Server IP Address	
RADIUS Server Port	1812
RADIUS Server Password	

WPA Unicast Cipher Suite	Select from WPA (TKIP), WPA2 (AES) or WPA2 Mixed. WPA2 (AES) is safer than WPA (TKIP). Please make sure your wireless client supports your selection. WPA2 (AES) is recommended followed by WPA2 Mixed if your client does not support WPA2 (AES).
RADIUS Server IP address	Input the IP address of the RADIUS authentication server here.
RADIUS Server Port	Input the port number of the RADIUS authentication server here. The default value is 1812.
RADIUS Server Password	Input the password of the RADIUS authentication server here.

VI-5-2. MAC Filtering

The MAC filtering feature allows you to define a list of wireless devices permitted to connect to this access point, identified by their unique MAC address. When this feature is enabled, devices which are not on the list of permitted MAC addresses cannot connect to the access point.



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

Delete Selected/ Delete All	Delete selected or all entries from the table.
Reset	De-select all selected entries.

To enable the MAC filtering function, check the box labeled "Enable Wireless Access Control".

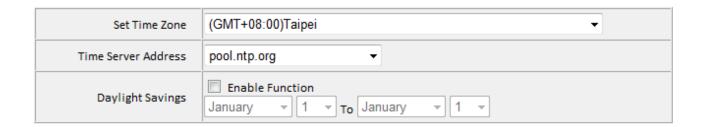
MAC address	Enter a MAC address of computer or network device without dashes or colons e.g. for MAC address 'aa-bb-cc-dd-ee-ff' enter 'aabbccddeeff'.
Comment	Enter a comment for reference/identification consisting of up to 16 alphanumerical characters.
Add	Click "Add" to add the MAC address to the

	MAC address filtering table.
Clear	Clear all fields.

VI-5-3. Time Settings

Time Zone

Set the time zone of the extender by synchronizing with Network Time Protocol server, the time will be used for Wi-Fi scheduling function.

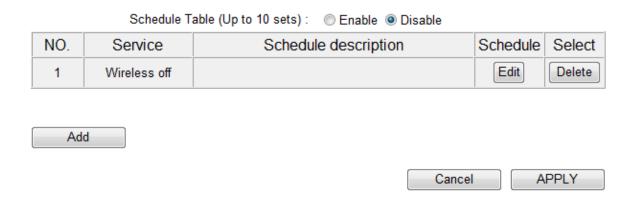


Set Time Zone	Select the time zone of your country or
	region.
Time Server Address	The extender supports NTP (Network Time
	Protocol), select a time server from the drop
	down menu.
Daylight Savings	If your country/region uses daylight saving
	time, please check the "Enable Function"
	box, and select the start and end date.

VI-5-4. Scheduling Setting

Scheduling setting

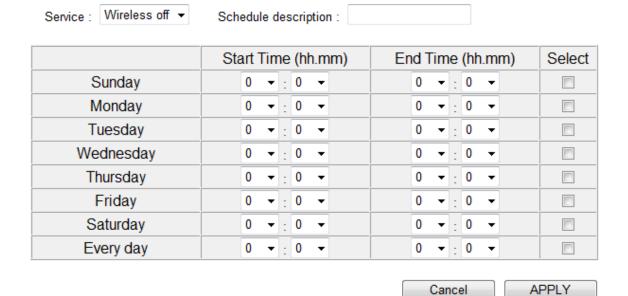
Scheduling function can be configured below for specific service.



Add	Click to add a new schedule in a new window (see below).
Edit	Edit an existing schedule in a new window.
Delete	Delete the specified schedule.

Add

When you click "Add" to add a new schedule, a new window will open as shown below:



- **1.** Select which function to schedule using the "Service" menu and enter a name for the schedule in the "schedule description" box.
- **2.** Specify a start and end time (hours and minutes) using the drop-down menus for your required day.
- 3. Select the schedule in the "Select" column and click "APPLY" to save the schedule, or "Back" to cancel and go back to the previous screen.



If you need to use the extender during a scheduled off period, press the WPS/Reset button once to "wake up" the extender and resume Wi-Fi coverage.

VI-5-5. Administration Utility

You can change the password used to login to the browser-based configuration interface here. It is advised to do so for security purposes. You can also configure the EW-7438PTn's IP address.



Please make a note of the new password. In the event that you forget the password and are unable to login to the browser based configuration interface, see <u>II-5</u>. Reset to factory default settings for how to reset the device.

Password Settings

Current Password	
New Password	
Re-Enter Password	

Management IP

Obtain an IP address automatically	
Use the following IP address	
IP Address	192.168.9.2
Subnet Mask	255.255.255.0
Gateway Address	
DNS	

DHCP Server

DHCP Server	Disabled ▼
Default Gateway	192.168.9.2
Start IP	192.168.9.100
End IP	192.168.9.200
Lease Time	Forever •

Current Password	Enter your current password.
New Password	Enter your new password.
Re-Enter Password	Confirm your new password.

IP Address	Specify an IP address here. This IP address will
	be assigned to your EW-7438PTn.
Subnet Mask	Input the subnet mask of the new IP address.
Gateway Address	Input the network's gateway IP address.
DNS	Enter the DNS address assigned by your ISP
	here.

DHCP Server	Enable or disable the DHCP server.
Default Gateway	Input the network's gateway IP address.
Start IP	Enter the start IP address for the DHCP server's
	IP address leases.
End IP	Enter the end IP address for the DHCP server's
	IP address leases.
Lease Time	Select a lease time for the DHCP leases here.
	The DHCP client will obtain a new IP address
	after the period expires.



Please refer to <u>VIII-1. Configuring your IP address</u> for more information about changing the access point's IP address.

VI-5-6. Configuration Tools

The "Configuration Tools" menu allows you to backup the EW-7438PTn's settings, restore the settings to a previous version or restore the EW-7438PTn back to its factory default state. You can also upgrade the firmware, reboot the device and export the system log.

Manage Settings

Save the current settings of the device to a .bin file, restore the settings of the device to a previously saved .bin file or reset the device to its factory default settings.



Backup Settings	Click "Save" to save the current settings on
	your computer as config.bin file.
Restore Settings	Click "Browse" to find a previously saved
	config.bin file and then click "Upload" to
	replace your current settings.
Restore to Factory	Click "Reset" to restore settings to the factory
Default	default. A pop-up window will appear and ask
	you to confirm and enter your log in details.
	Enter your username and password and click
	"Ok". See below for more information.

Upgrade Firmware

You can upgrade the system firmware to a more recent version. You can download the latest firmware from the Edimax website. After the upgrade, the system will restart.

Upgrade Firmware

Upgrade the firmware to the most recent version - it is recommended that you use a wired connection for the procedure.





Do not switch off or disconnect the device during a firmware upgrade, as this could damage the device. It is recommended that you use a wired Ethernet connection for a firmware upgrade.

Browse	Open a new window to locate and select the
	firmware file in your computer.

Reboot

In the event that the router malfunctions or is not responding, then it is recommended that you restart the device.

Reboot

In the event that the device malfunctions or is not responding, you can perform a system reboot. Click on Apply - this will reboot the device, without affecting your existing settings.





Rebooting the EW-7438PTn will not affect the current configuration/settings of the device.

Apply	Click "Apply" to reboot the device. A status
	bar will indicate the progress of the reboot
	and you will see a confirmation screen when
	the reboot is complete.

System Log

You can export the system log to a separate file if you require.

System Log

Export system log

Export system log	Click to open a new window and select a
	location to save the log file.

VII. EdiRange App



🔼 The EdiRange app is for range extender mode only.

The EdiRange app is a free smartphone app from which you can manage the extender's functions and check your local Wi-Fi environment.



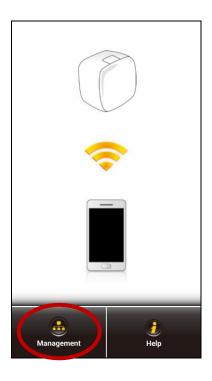
Please ensure that your smartphone/tablet is connected to your extender's Wi-Fi (SSID).

VII-1. Login

1. Open the EdiRange app.



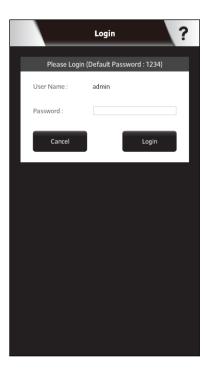
2. Select "Management".



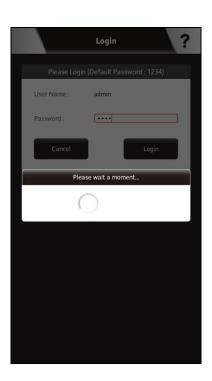
3. Enter the username and password (default username: *admin* default password: *1234*).



The admin password is the same password used for the browser based configuration interface. It is recommended that you change the password from the default "1234". You can change the password in the "admin" page from the main menu.

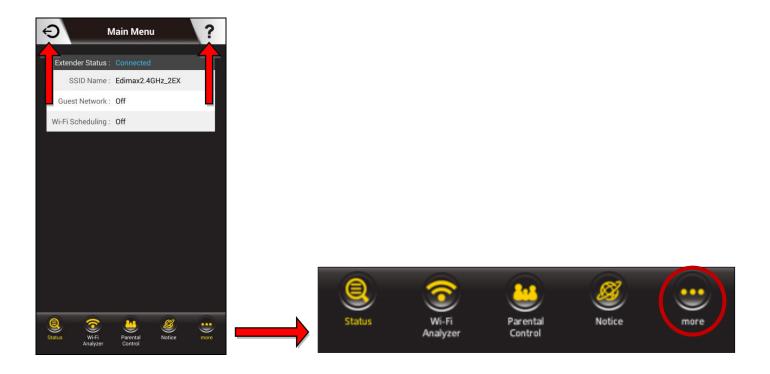


4. Wait for the app to log in.



VII-2. Main Menu

After you log in, the "Status" page will be displayed. You can see the extender status, SSID name, and guest network and schedule status here. Use the menu of icons across the bottom of the screen to navigate around the app.





Logout

Click the logout icon in the top left corner of the app anytime to log out from the app.



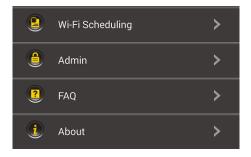
Help

Click the help icon in the top right corner of the app anytime to display help and tips about using the app.



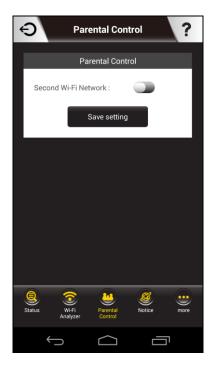
More

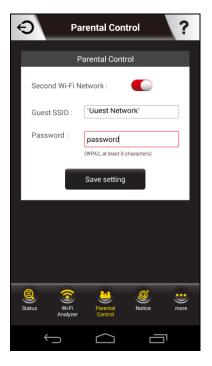
Click the "more" icon in the main menu to display an additional menu with more options:

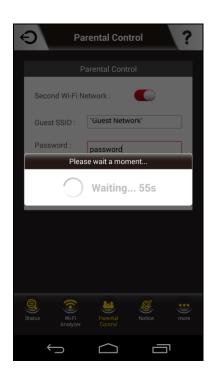


VII-3. Parental Control

The parental control function is a guest Wi-Fi network (SSID) which can be used for children, and switched on or off remotely using the EdiRange app independent from your extender's primary Wi-Fi network. Select "Second Wi-Fi Network" and then enter a name and password for the network.



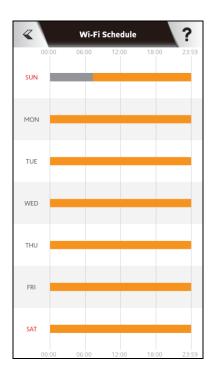




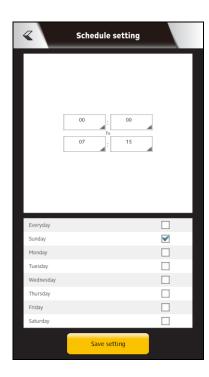
VII-4. Wi-Fi Scheduling

Wi-Fi can be scheduled to switch off according to your preference. Your current schedules are displayed in the table: grey areas indicate Wi-Fi is off and orange areas indicate Wi-Fi is on.

Touch the time bars on the screen to open the schedule settings, and then click "Add" or "Edit" to add a new or edit an existing schedule for Wi-Fi off. Daylight Savings can also be configured here.

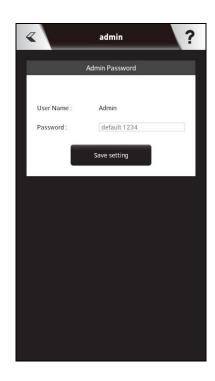






VII-5. Admin

You can change the extender's administrative password on the Admin page. This is the password to login to the EdiRange app and the browser based configuration interface.



VIII. Appendix

VIII-1. Configuring your IP address

For first time access to the URL http://edimaxext.setup please ensure your computer is set to use a dynamic IP address. This means your computer can obtain an IP address automatically from a DHCP server. You can check if your computer is set to use a dynamic IP address by following VII-1. How to check that your computer uses a dynamic IP address.

Static IP users can also temporarily modify your computer's IP address to be in the same IP address subnet e.g. 192.168.9.x (x = 3 - 254) as the EW-7438PTn in order to access http://edimaxext.setup.



 $oldsymbol{A}$ The EW-7438PTn's default IP address is 192.168.9.2.

The procedure for modifying your IP address varies across different operating systems; please follow the guide appropriate for your operating system in VIII-1-2. How to modify the IP address of your computer.



Static IP users please make a note of your static IP before you change it.

You can assign a new IP address to the device which is within the subnet of your network during setup or using the browser based configuration interface, so that you can access the URL http://edimaxext.setup in future without modifying your IP address.



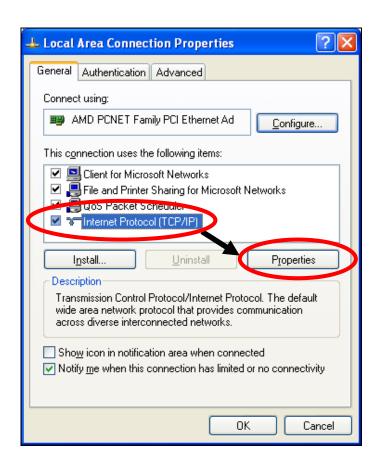
Please remember to change your IP address back to its original value after the device is properly configured.

VIII-1-1. How to check that your computer uses a dynamic IP address

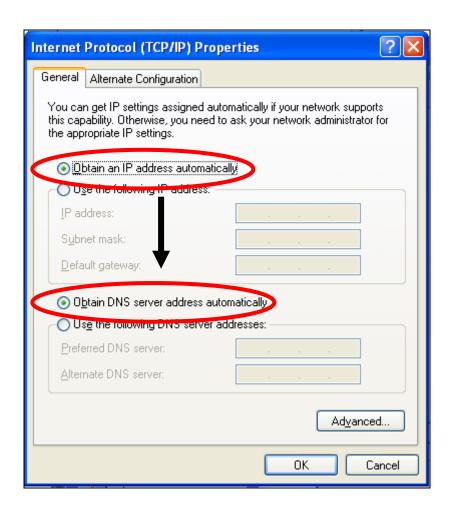
Please follow the instructions appropriate for your operating system.

VIII-1-1-1. 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".

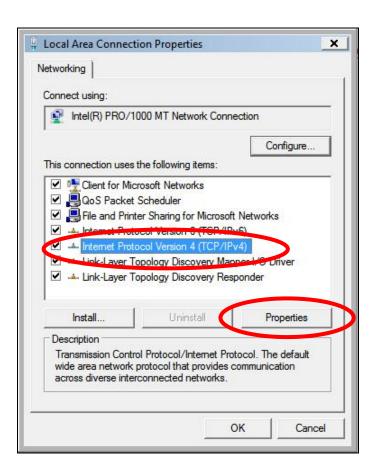


2. "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.

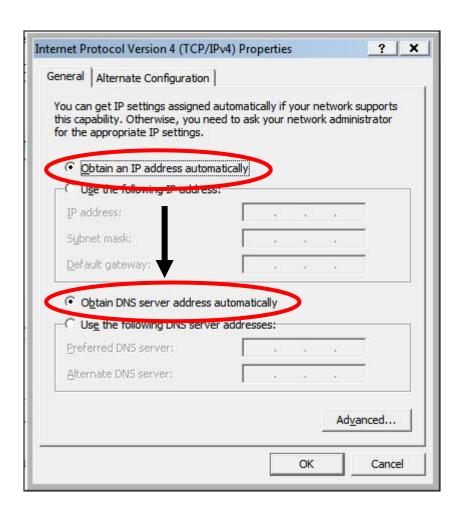


VIII-1-1-2. Windows Vista

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".

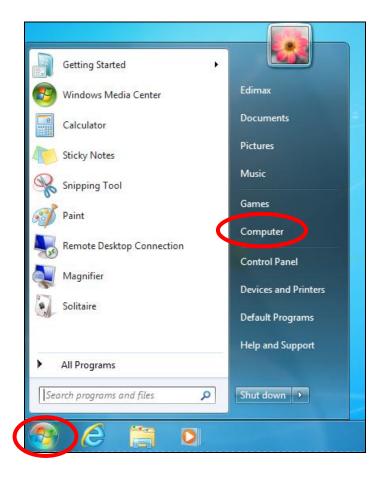


2. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.



VIII-1-1-3. 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".

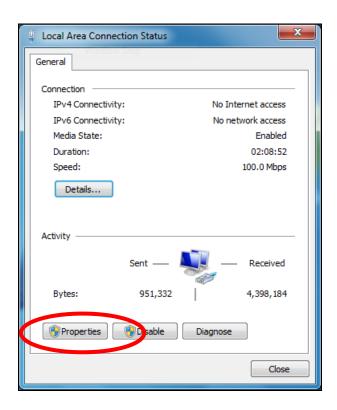


3. Click "Local Area Connection".

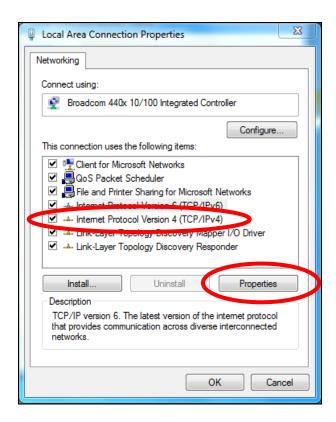
View your basic network information and set up connections



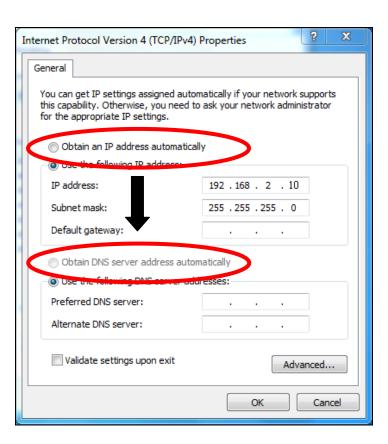
4. Click "Properties".



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

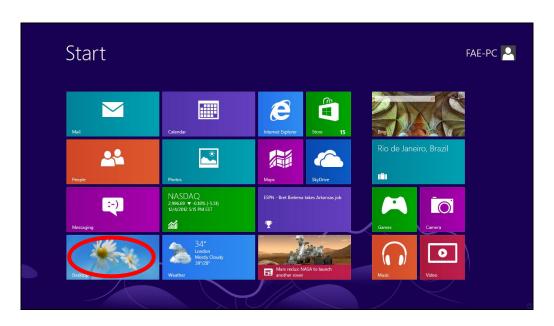


6. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.

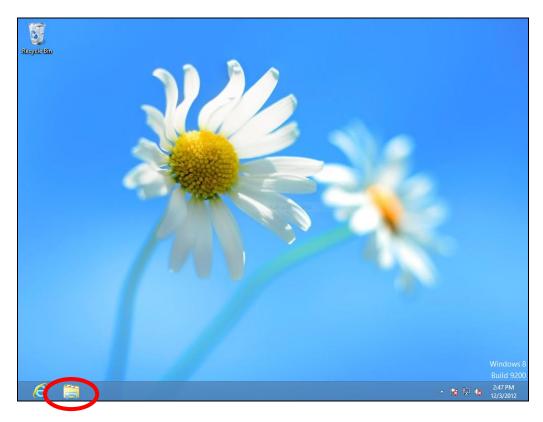


VII-1-1-4. Windows 8

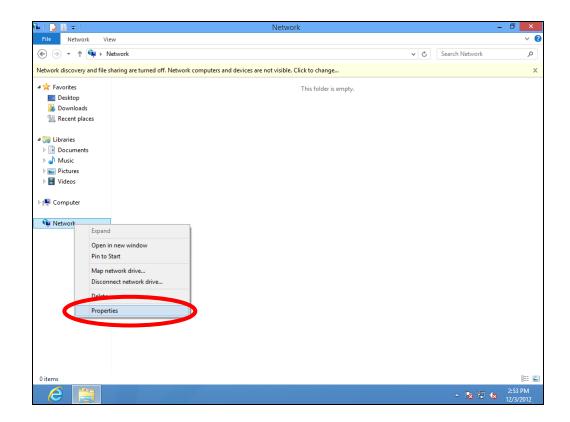
1. From the Windows 8 Start screen, you need to switch to desktop mode. Move your curser to the bottom left of the screen and click.



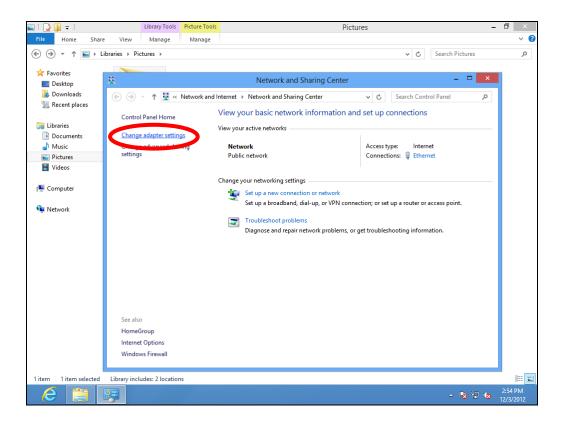
2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.



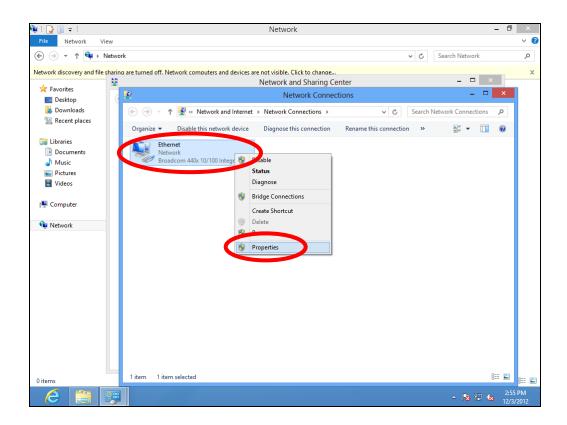
3. Right click "Network" and then select "Properties".



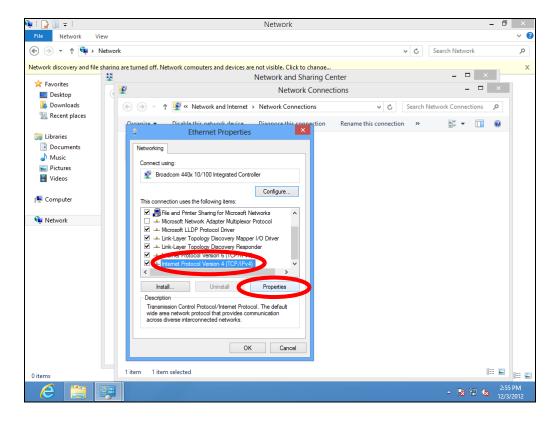
4. In the window that opens, select "Change adapter settings" from the left side.



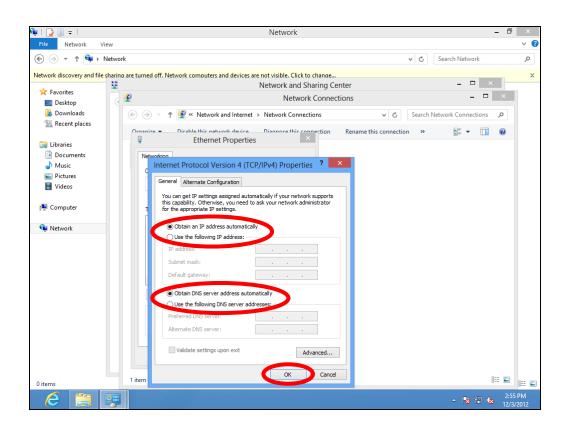
5. Choose your connection and right click, then select "Properties".



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



7. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.



VIII-1-1-5. Mac OS

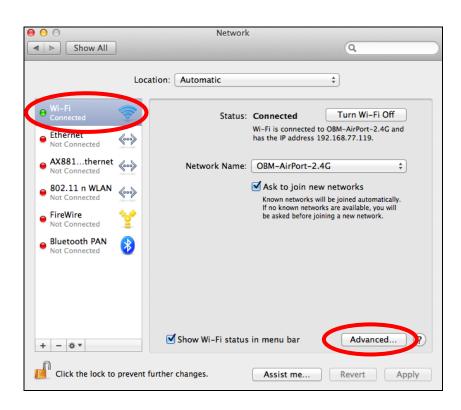
1. Have your Macintosh computer operate as usual, and click on "System Preferences".



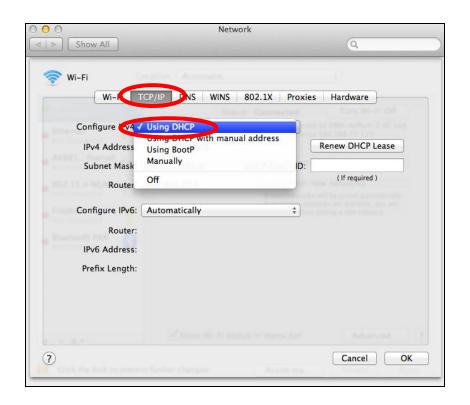
2. In System Preferences, click on "Network".



3. Click on "Wi-Fi" in the left panel and then click "Advanced" in the lower right corner.



4. Select "TCP/IP" from the top menu and "Using DHCP" in the drop down menu labeled "Configure IPv4" should be selected.



VIII-1-2. How to modify the IP address of your computer

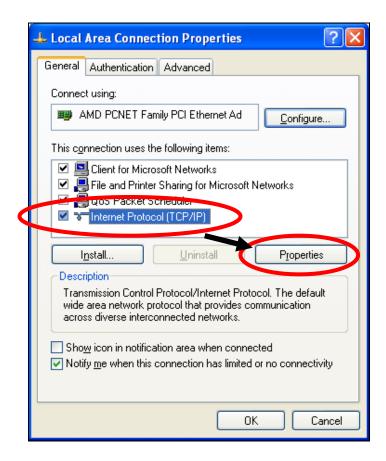
Please follow the instructions appropriate for your operating system. In the following examples we use the IP address **192.168.9.20** though you can use any IP address in the range **192.168.9.x** (x = 3 - 254) in order to access iQ Setup/browser based configuration interface.



🦺 Please make a note of your static IP before you change it.

VII-1-2-1. 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:

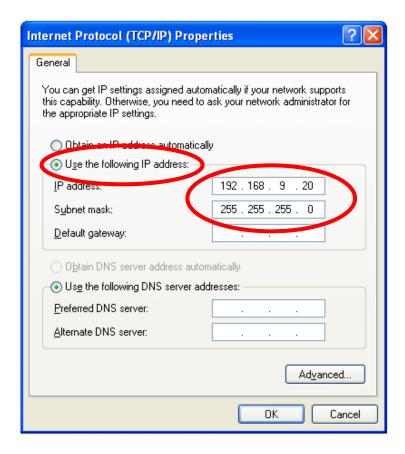


Your existing static IP address will be displayed in the "IP address" field before you replace it. Please make a note of this IP

address, subnet mask, default gateway and DNS server addresses.

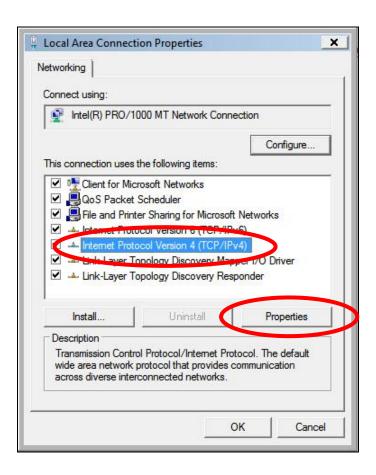
IP address: 192.168.9.20 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



VIII-1-2-2. 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".



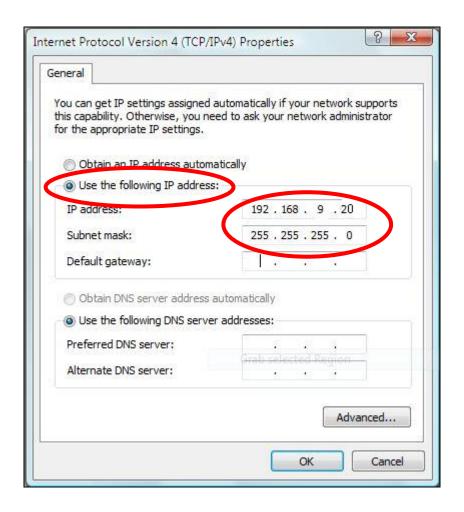
2. Select "Use the following IP address", then input the following values:



Your existing static IP address will be displayed in the "IP address" field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.

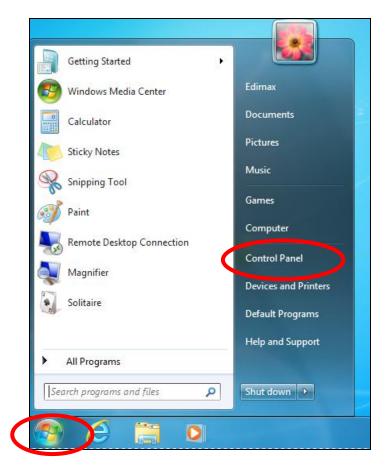
IP address: 192.168.9.20 Subnet Mask: 255.255.255.0

Click 'OK' when finished.

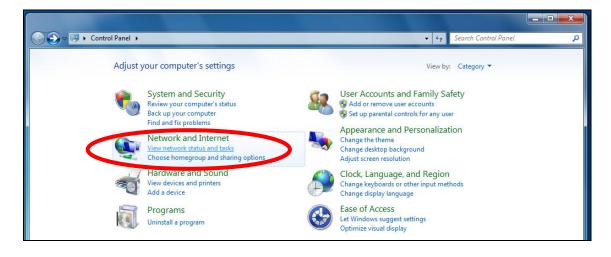


VII-1-2-3. Windows 7

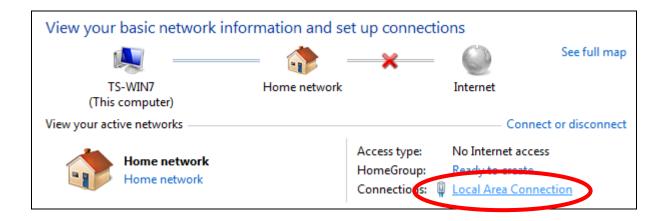
1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel".



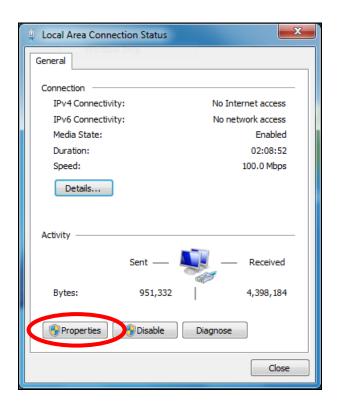
2. Under "Network and Internet" click "View network status and tasks".



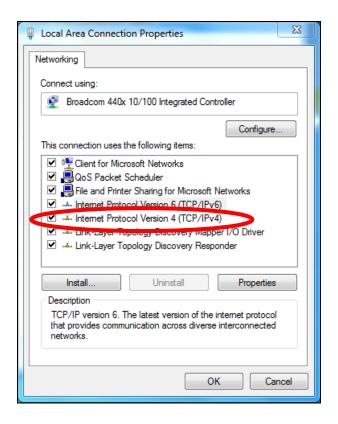
3. Click "Local Area Connection".



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:

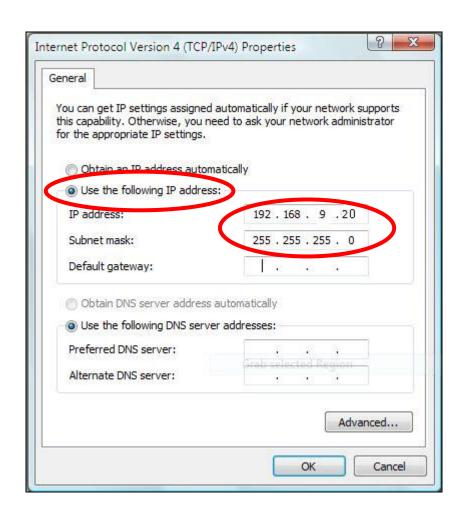


Your existing static IP address will be displayed in the "IP address" field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.

IP address: 192.168.9.20

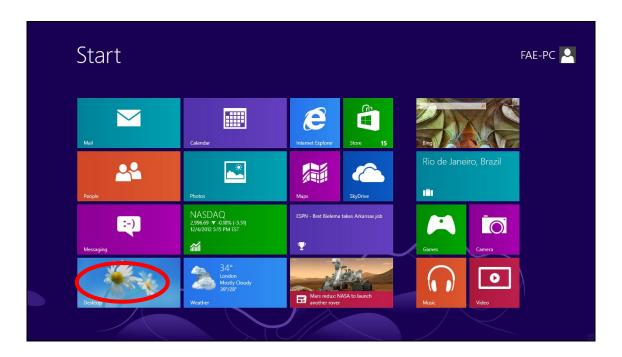
Subnet Mask: 255.255.255.0

Click 'OK' when finished.

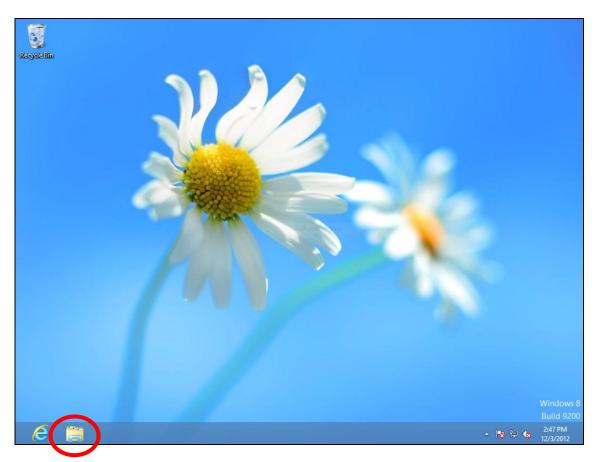


VIII-1-2-4. Windows 8

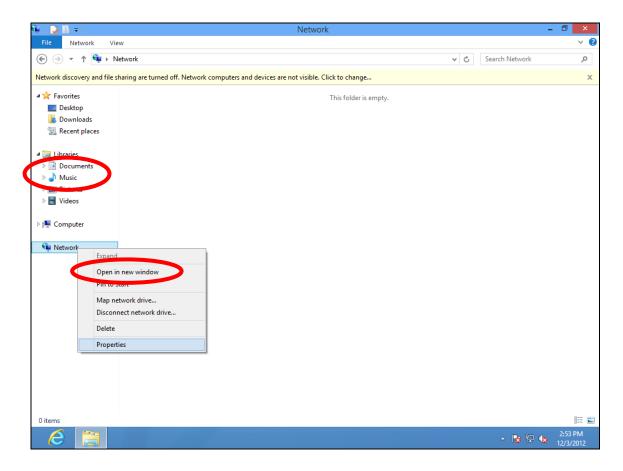
1. From the Windows 8 Start screen, you need to switch to desktop mode. Move your curser to the bottom left of the screen and click.



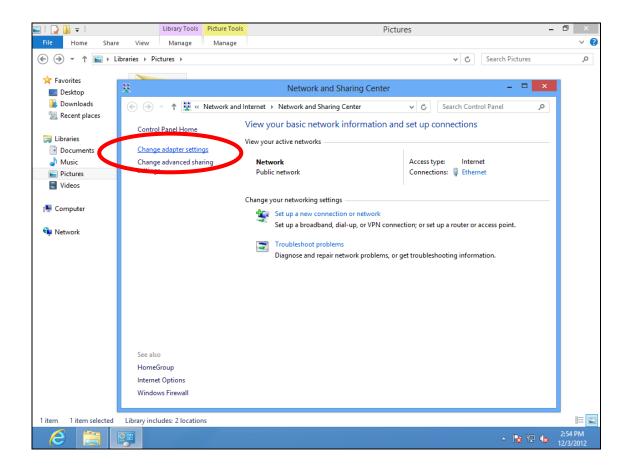
2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.



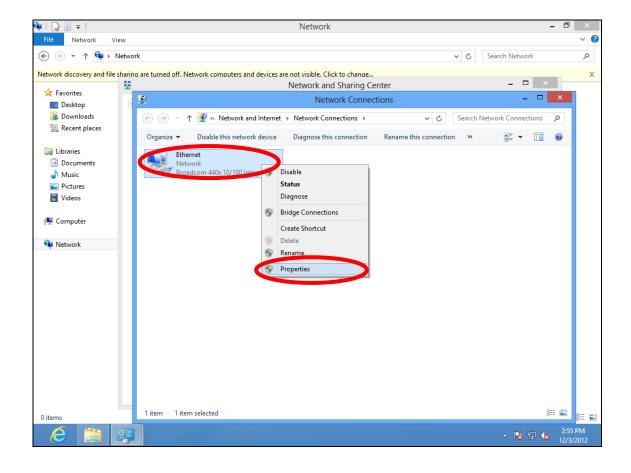
3. Right click "Network" and then select "Properties".



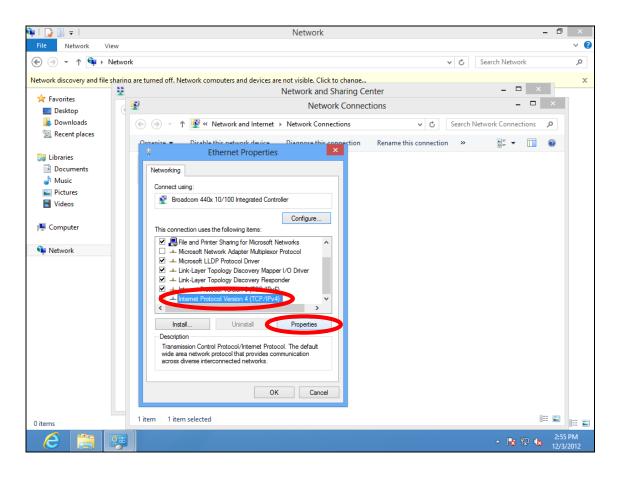
4. In the window that opens, select "Change adapter settings" from the left side.



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:



Your existing static IP address will be displayed in the "IP address" field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.

IP address: 192.168.9.20

Subnet Mask: 255.255.255.0

Click 'OK' when finished.

VIII-1-2-5. Mac

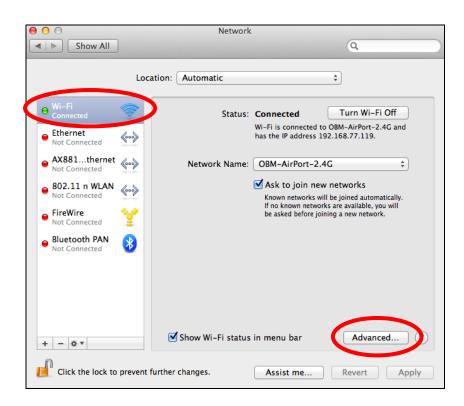
1. Have your Macintosh computer operate as usual, and click on "System Preferences"



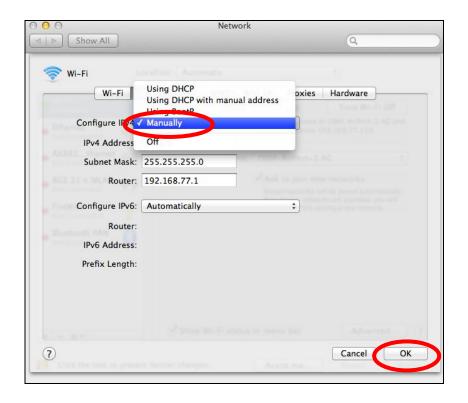
2. In System Preferences, click on "Network".



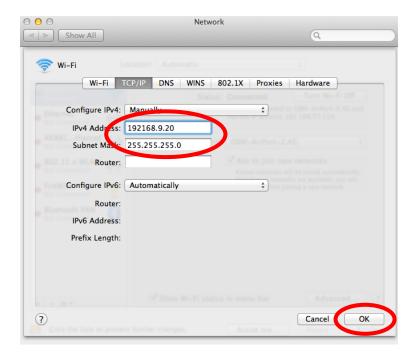
3. Click on "Wi-Fi" in the left panel and then click "Advanced" in the lower right corner.



4. Select "TCP/IP" from the top menu and select "Manually" from the drop down menu labeled "Configure IPv4", then click "OK".



- A
- Your existing static IP address will be displayed in the "IP address" field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.
- **5.** In the "IPv4 Address" and "Subnet Mask" field enter IP address 192.168.9.20 and subnet mask 255.255.255.0. Click on "OK".



6. Click "Apply" to save the changes.



VIII-1-3. How to Find Your Network Security Key

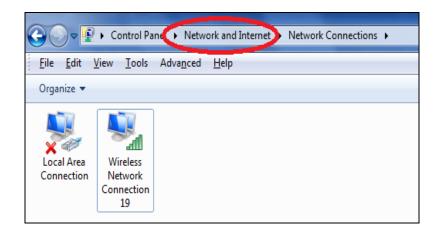
To find your network security key, please follow the instructions appropriate for your operating system.



If you are using Windows XP or earlier, please contact your ISP or router manufacturer to find your network security key.

VIII-1-3-1. Windows 7 & Vista

1. Open "Control Panel" and click on "Network and Internet" in the top menu.



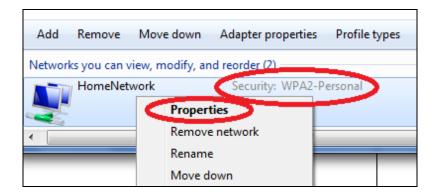
2. Click on "View network status and tasks" which is under the heading "Network and Sharing Center".



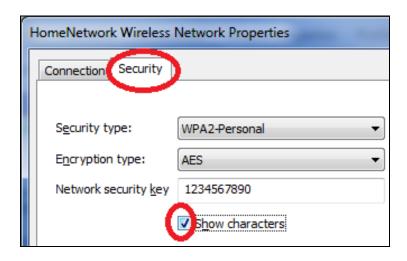
3. Click on "Manage wireless networks" in the left menu.



4. You should see the profile of your Wi-Fi network in the list. Right click on your Wi-Fi network and then click on "Properties".

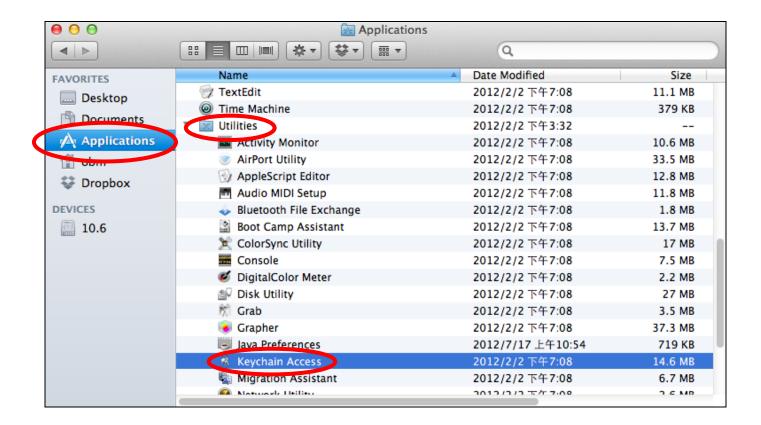


5.Click on the "Security" tab, and then check the box labeled "Show characters". This will show your network security key. Click the "Cancel" button to close the window.

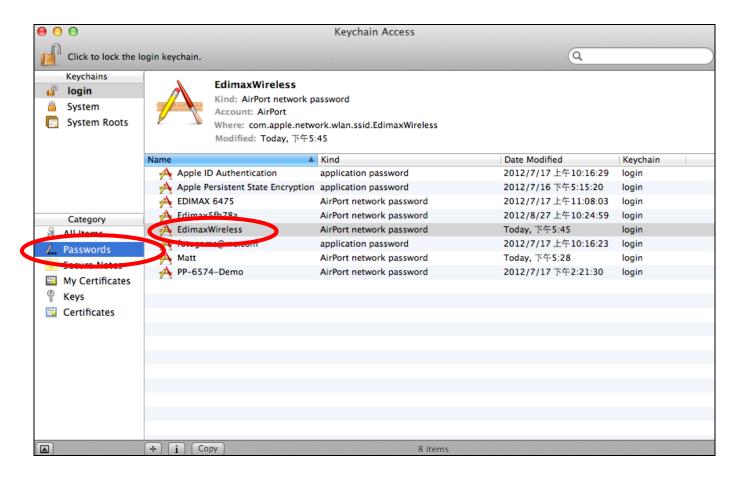


VIII-1-3-2. Mac

1. Open a new Finder window, and select "Applications" from the menu on the left side. Open the folder labeled "Utilities" and then open the application "Keychain Access".



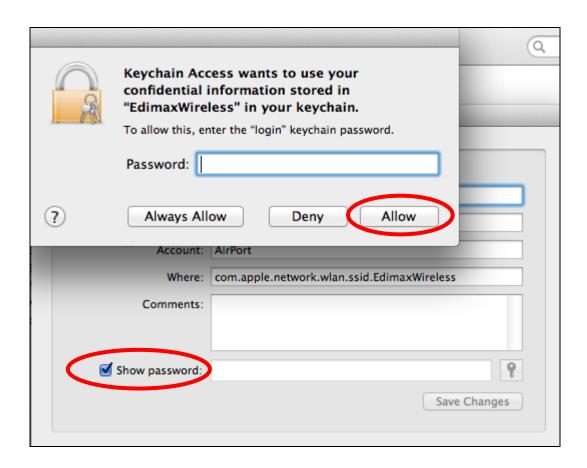
2. Select "Passwords" from the sub-menu labeled "Category" on the left side, as shown below. Then search the list in the main panel for the SSID of your network. In this example, the SSID is "EdimaxWireless" – though your SSID will be unique to your network.



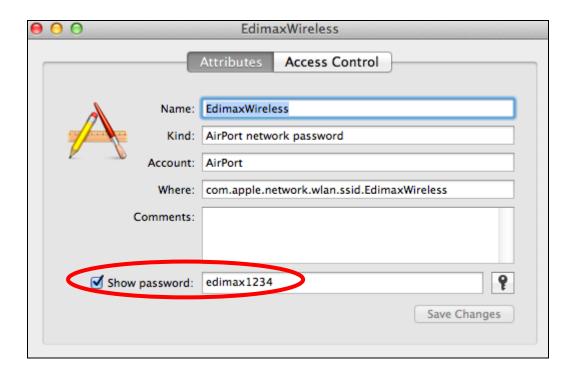
3. Double click the SSID of your network and you will see the following window.



4. Check the box labeled "Show password" and you will be asked to enter your administrative password, which you use to log into your Mac. Enter your password and click "Allow".



Your network security password will now be displayed in the field next to the box labeled "Show password". In the example below, the network security password is "edimax1234". Please make a note of your network security password.

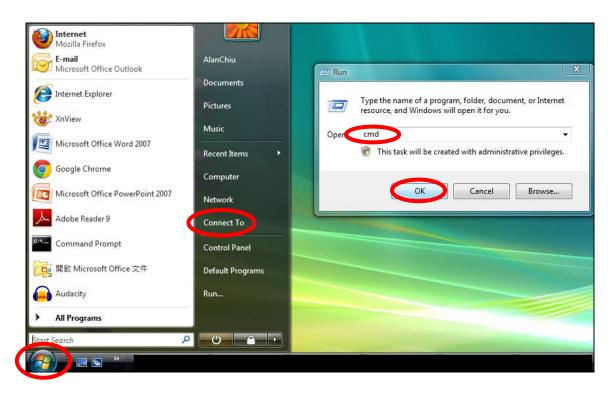


VIII-1-4. How to Find Your Router's IP Address

To find your router's IP address, please follow the instructions appropriate for your operating system.

VIII-1-4-1. Windows XP, Vista & 7

1. Go to "Start", select "Run" and type "cmd", then press Enter or click "OK".



2. A new window will open, type "ipconfig" and press Enter.

```
Administrator C:\Windows\system32\cmd.exe

Microsoft Windows [Version 6.0.6002]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

C:\Users\AlanChia\ipconfig
```

3. Your router's IP address will be displayed next to "Default Gateway".

```
Administrator: C:\Windows\system32\cmd.exe
Ethernet adapter 區域連線:
     Connection-specific DNS Suffix .:
  Link-local IPv6 Address . . . : fe80::4cdc:3e90:ba56:1722x9
IPv4 Address . . . . : 192.168.10.14
Colonet mask . . . . : 255.255.255.0

Default Gateway . . . . : fe80::4cdc:3e90:ba56:1722x9

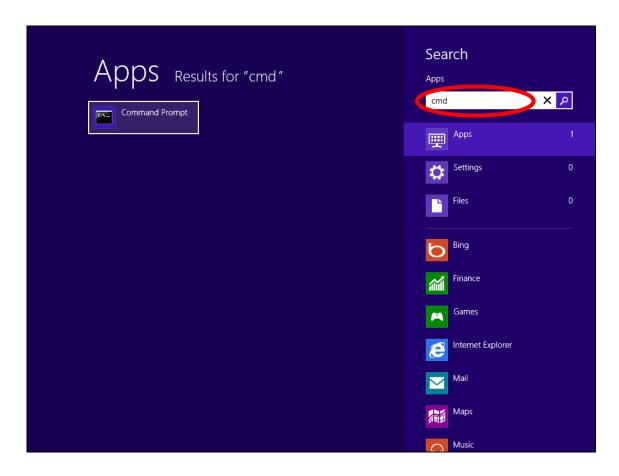
IPv4 Address . . . . : fe80::4cdc:3e90:ba56:1722x9
                                                                       192.168.10.254
Wireless LAN adapter 無線網路連線:
     Media State . . . . . . . . : Media disconnected
     Connection-specific DNS Suffix . : edimax.com
Tunnel adapter 區域連線* 6:
     Media State . . . . . . . . . : Media disconnected Connection—specific DNS Suffix . :
Tunnel adapter 區域連線* 7:
                                                          . . . : Media disconnected
     Media State . . .
     Connection-specific DNS Suffix .:
C:∖Users\AlanChiu>_
```

VIII-1-4-2. Windows 8

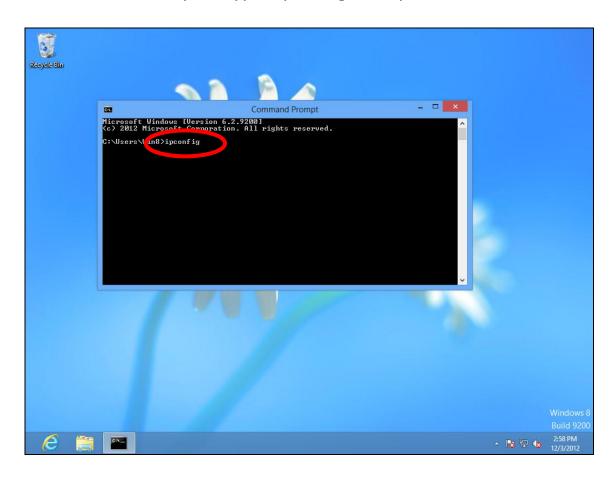
1. From the Windows 8 Start screen, move your curser to the top right corner of the screen to display the Charms bar.



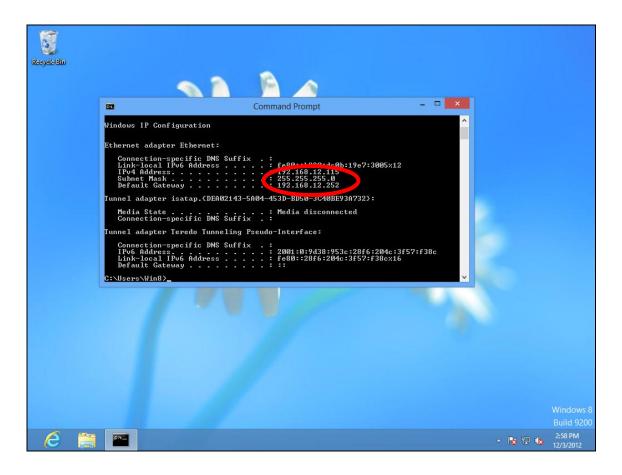
2. Click "Search" and enter "cmd" into the search bar. Click the "Command Prompt" app which be displayed on the left side.



3. A new window will open, type "ipconfig" and press Enter.

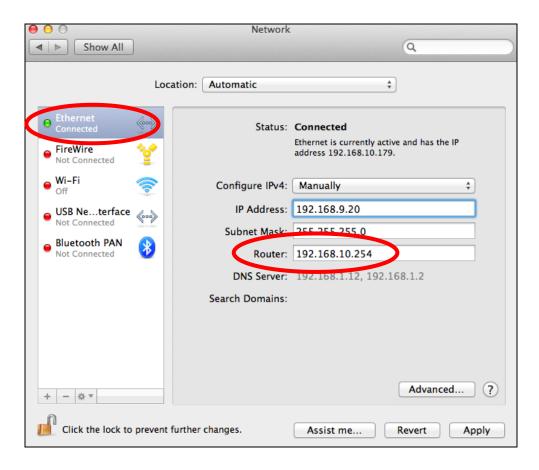


4. Your router's IP address will be displayed next to "Default Gateway".

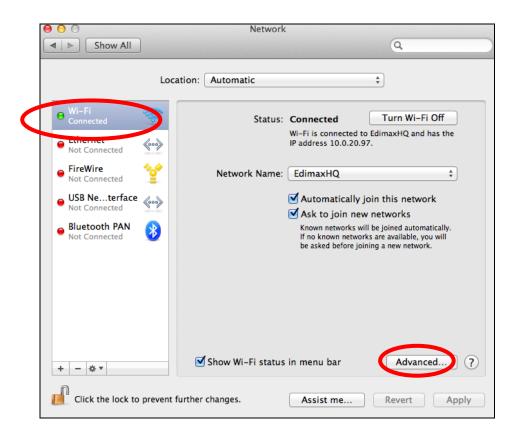


VIII-1-4-3. Mac

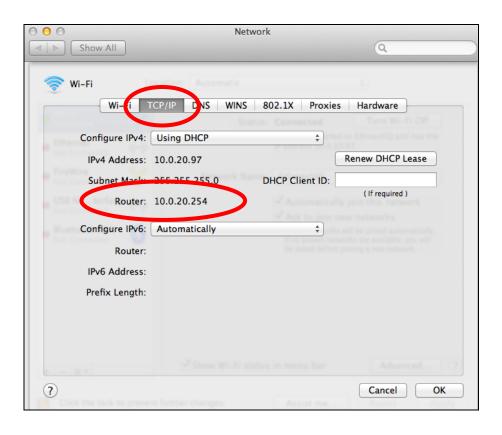
- 1. Launch "System Preferences" and click on "Network".
- 2. If you are using an Ethernet cable to connect to your network, your router's IP address will be displayed next to "Router".



3. If you are using Wi-Fi, click "Wi-Fi" in the left panel, and then "Advanced" in the bottom right corner.



4. Click the "TCP/IP" tab and your router's IP address will be displayed next to "Router".



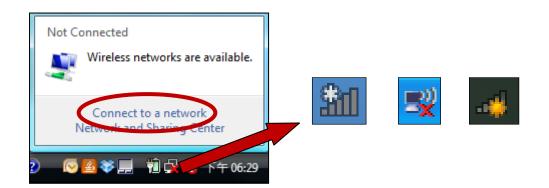
VIII-2. Connecting to a Wi-Fi network

For help connecting to your device's *edimaxext.setup* SSID for initial setup, or to connect to your device's new Wi-Fi network (SSID) after setup is complete, follow the guide below:

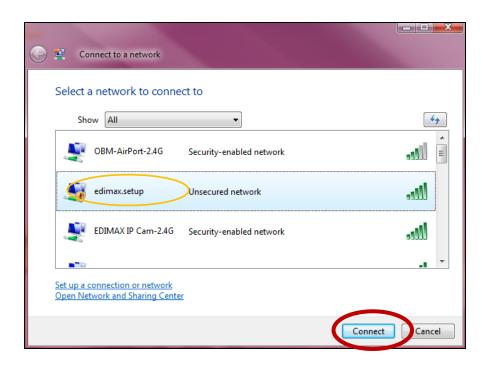


Below is an example of how to connect using Windows Vista – the process may vary slightly for other versions of Windows.

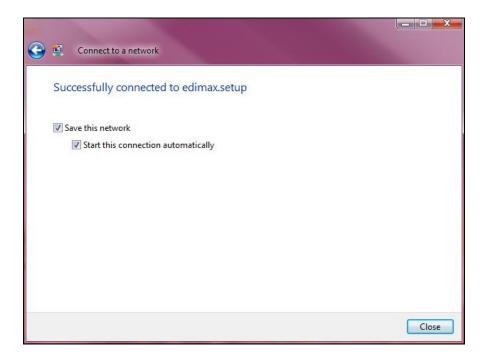
1. Click the network icon (■, □ or ≥) in the system tray and select "Connect to a network".



2. Search for the SSID of your EW-7438PTn and then click "Connect". If you set a password for your network, you will then be prompted to enter it.



3. After correctly entering your password, you will be successfully connected to the EW-7438PTn's wireless network.



VIII-3. Troubleshooting

If you are experiencing problems with your wireless extender, please refer to this troubleshooting guide before contacting your dealer of purchase for help.

Scenario	Solution
I can't log onto the browser-based configuration interface.	 a. Please check that the extender is correctly inserted into a power socket and check the LEDs on the front panel. If the extender is initializing after being switched off or restarted, wait for a 2 minutes and try again. b. Make sure you are using the full, correct URL: http://edimaxext.setup c. If you are using a MAC or IP address filter, try to connect the wireless extender using a different computer. d. Set your computer to obtain an IP address
	 automatically (DHCP), and see if your computer can obtain an IP address. e. Ensure that all other Wi-Fi/Ethernet adapters are disabled or disconnected. f. Password is case-sensitive. Make sure the "Caps Lock" light is not illuminated. g. b. If you do not know your password, restore the device to factory settings.
I can't establish a connection to my wireless extender.	 a. If encryption is enabled, please re-check WEP or WPA passphrase settings on your wireless client. The password is case-sensitive. Make sure the "Caps Lock" light is not illuminated. b. Try moving closer to the wireless extender. c. Switch off the extender and switch it back on after 10 seconds. d. Please check that the extender is correctly inserted into a power socket and check the LEDs on the front panel.
File downloads are very slow or frequently interrupted.	 a. Reset the wireless extender b. Try again later. Your local network may be experiencing technical difficulties or very high usage. c. Change channel number.
The wireless extender	a. It is normal for the wireless extender to heat up

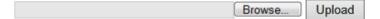
is extremely hot.	 during frequent use. If you can safely place your hand on the wireless extender, the temperature of the device is at a normal level. b. If you smell burning or see smoke coming from wireless extender then disconnect the extender immediately, as far as it is safely possible to do so. Call your dealer of purchase for help.
My network device	a. Ensure that your broadband router is fully
can't access the	functional.
Internet.	b. Switch off both your network device and wireless
internet.	extender and switch back on again.
	c. Ensure that the wireless extender is powered on
	(check the PWR LED).
	d. On the browser based configuration interface home
	page, check "Status" under "Wireless
	Configuration". It should be "Connected" – if it is
	"Disconnected" then this means the wireless
	extender is not connected to your router/access
	point.
My wireless extender	The best location to place the Wi-Fi extender is one
has a poor signal	which is an open space, roughly in the middle
from my access	between your router and the Wi-Fi dead zone, and
point/router.	where the Wi-Fi extender LED displays "Excellent"
	signal strength.
	a. Keep the extender away from other radio devices
	such as microwaves or wireless telephones.
	b. Do not put the extender in the corner of a room or under/nearby metal.
	c. It is recommended to plug the extender directly
	into a wall socket.
	d. Ensure there are as few obstacles as possible
	between the extender and the access point/router.
Can I use the same	Yes, but it is not recommended as it will be difficult to
SSID as my current	distinguish between two SSIDs with the same name.
gateway router for	
my Wi-Fi extender?	
A firmware upgrade	Firmware upgrade failures can happen occasionally due to
failed and the	power cuts or unstable connections. In this scenario, you
EW-7438PTn isn't	need to first connect a computer to one of your
working.	EW-7438PTn's LAN ports using an Ethernet cable. Then

you need to modify your computer's IP address to **192.168.2.x** where **x** is any value between **3** and **254**. Refer to VIII-1-2. How to modify the IP address of your computer if you need guidance to do so.

From there, you need to go to 192.168.2.1 in a web browser, and you will see the page below:

Firmware Recovery Mode

Please select the correct firmware file than click Upload once and wait for the next screen to display that the upgrade is in progress.



Click "Browse" to locate the firmware file on your computer and then click "Upload" to upload the new firmware. It may take several minutes to complete, please wait and follow the instructions on screen.

VIII-4. Glossary

Default Gateway (Wireless bridge): 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.

NAT: Network Address Translation. This process allows all of the computers on your home network to use one IP address. Using the broadband access point's NAT capability, you can access the Internet from any computer on your home network without having to purchase more IP addresses from your ISP.

Port: Network Clients (LAN PC) uses port numbers to distinguish one network application/protocol over another. Below is a list of common applications and protocol/port numbers:

Application	Protocol	Port Number
Telnet	ТСР	23
FTP	TCP	21
SMTP	ТСР	25
POP3	ТСР	110
H.323	ТСР	1720
SNMP	UCP	161
SNMP Trap	UDP	162
HTTP	ТСР	80
PPTP	ТСР	1723
PC Anywhere	TCP	5631
PC Anywhere	UDP	5632

Access point: A 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.

WAN: Wide Area Network. A network that connects computers located in geographically separate areas (e.g. different buildings, cities, countries). The Internet is a wide area network.

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

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

directive 2006/95/CE, 2011/65/CE.

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

směrnic 2006/95/ES, 2011/65/ES.

Polski: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami

określonymi Dyrektywą UE 2006/95/EC, 2011/65/EC...

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

Directivei 2006/95/CE, 2011/65/CE.

Русский: Это оборудование соответствует основным требованиям и положениям Директивы

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

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

(2006/95/EK, 2011/65/EK).

Türkçe: Bu cihaz 2006/95/EC, 2011/65/EC direktifleri zorunlu istekler ve diğer hükümlerle ile

uyumludur.

Українська: Обладнання відповідає вимогам і умовам директиви 2006/95/ЕС, 2011/65/ЕС.

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

2006/95/ES, 2011/65/ES.

Deutsch: Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2006/95/EC, 2011/65/EC.

Español: El presente equipo cumple los requisitos esenciales de la Directiva 2006/95/EC,

2011/65/EC.

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

della Direttiva 2006/95/CE, 2011/65/CE.

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

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

Português: Este equipamento cumpre os requesitos essênciais da Directiva 2006/95/EC, 2011/65/EC.

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

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

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

bestämmelser i direktiv 2006/95/EG, 2011/65/EG.

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

forordninger i direktiv 2006/95/EC, 2011/65/EC.

suomen kieli: Tämä laite täyttää direktiivien 2006/95/EY, 2011/65/EY oleelliset vaatimukset ja muut

asiaankuuluvat määräykset.

FOR USE IN AT BE CY CZ OK ET FT FR

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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: N300 Passthrough Wi-Fi Extender/Access Point/Wi-Fi

Bridge

Model No.: EW-7438PTn

The following European standards for essential requirements have been followed:

Spectrum: ETSI EN 300 328 V1.8.1

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

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

EMF: EN 62311:2008

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

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

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

Date of Signature: _
Signature:

Printed Name:

Title:

Albert Chang

March, 2015

Director

Edimax Technology Co., Ltd.

CE

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