

EW-7438RPn Air



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I. Product Information

I-1. Package Contents









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

I-2. System Requirements

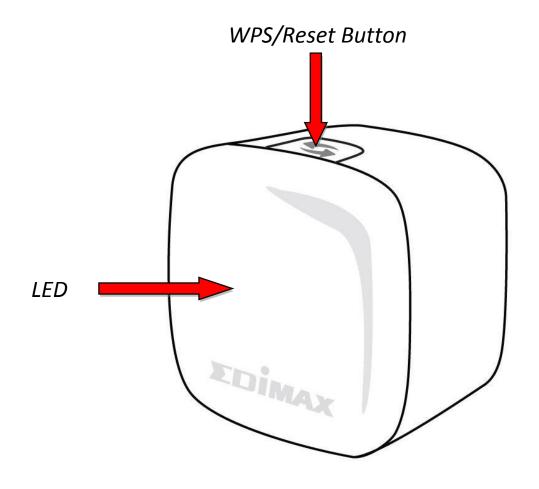
- Existing 2.4GHz wireless network
- Computer with 2.4GHz 802.11/b/g/n Wi-Fi adapter, and web browser for software configuration (Internet Explorer 8[®] or above, Google Chrome[®], Firefox[®] or Safari[®] latest version)
- iOS 5 or above or Android 4.x or above for mobile app

I-3. LED Status

Color	Status	Description
Blue	On	Good signal strength: 60 – 100%
Biue	Flashing	Normal signal strength: 40 – 59%
Amber	Flashing	Poor signal strength: 0 – 39%
Red	On	Disconnected
Red	Flashing	Extender is booting up
Green	On	Successful WPS connection

	Flashing	WPS in progress
Off	Off	Sleep Mode

I-4. Hardware Overview



I-5. Safety Information

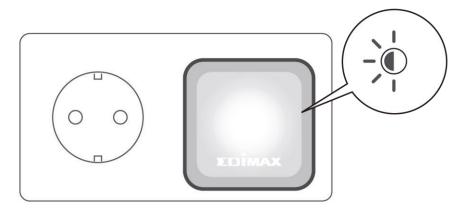
In order to ensure the safe operation of the device and its users, please read and act in accordance with the following safety instructions.

- 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.
- 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.

II. Installation

II-1. Installation

 Plug the EW-7438RPn Air into a power socket. The LED will flash red while the system is booting up. The device is ready when the LED displays on (red).



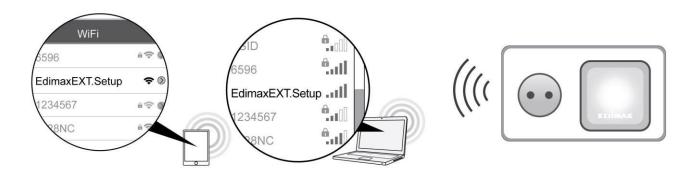
2. Use a Wi-Fi device (e.g. computer, tablet, smartphone) to search for a Wi-Fi network with the SSID "EdimaxEXT.Setup **" and connect to it.

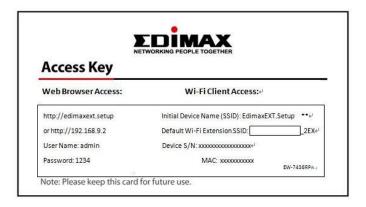


If you are using a computer, please disconnect any Ethernet cables. For mobile devices, iOS 5 or Android 4.x or above is required.



The last two characters of the SSID (EdimaxEXT.Setup**) will be unique numbers according to your device e.g. "EdimaxEXT.Setup c1". These unique numbers are displayed as the last two characters of the MAC address on the included access key card.





3. 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 V. Appendix.

4. 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.

5. Select your Wi-Fi network from the list and enter the security key/password. You can also enter a new Wi-Fi network name (SSID) if you wish. Click "Next" to continue.

By default, the Wi-Fi extender's new 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-7438RPn Air 's SSID will be "Your SSID_2EX". You can change your extender's new SSID in the "Extender Device SSID" field.

Select	SSID	Signal	
•	Matt 100%		
Security Key(your existing network security key) abcd1234			
Extender device SSID Matt_2EX			
	EDIMAX_GC_2.4G_test	100%	
	OBM_AE	100%	



Check the box "Connect to a hidden network" if you wish to connect to a hidden SSID and manually enter the details.

6. Please wait while the EW-7438RPn Air tests the connection.

Connection Test

21%



If your Wi-Fi extender cannot obtain an IP address from your existing router/access point then click the "Static IP" button to assign an IP address to the extender.

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

Connection test complete. Click "Apply" to restart the device.



IP: 192.168.2.102 📀

Back Apply

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

System restarting. Please wait for a moment.

15%

Remind: Your Wi-Fi will disconnect from the extender during the system restart (approximately 1 minute). When the system is complete, please connect to the extender's new SSID and password as below.

Extender SSID Name : Matt_2EX

Security Key: abcd1234

9. A final congratulations screen will indicate that setup is complete. The EW-7438RPn Air is working and ready for use - the LED should display **on** or **flashing blue** depending on your signal strength. To download the EdiRange app, click the icon or scan the QR code.

Android: iOS:





10. 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)



II-2. **WPS Setup**

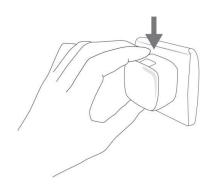
If your wireless router/access point supports WPS (Wi-Fi Protected Setup) then you can use this method to setup your wireless extender.

1. Press the WPS button on your wireless router/access point to activate its WPS.



Please check the instructions for your wireless router/access point 📤 for how long you need to hold down its WPS button.

2. Within two minutes, press and hold the WPS button on the wireless extender for two seconds. The extender's LED should flash green to indicate that WPS is in progress.

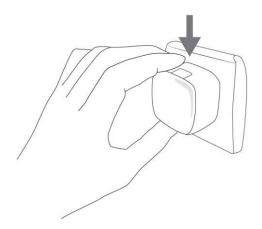


3. The devices will establish a connection. The extender's LED should display on (green) for 30 seconds to indicate a successful connection.

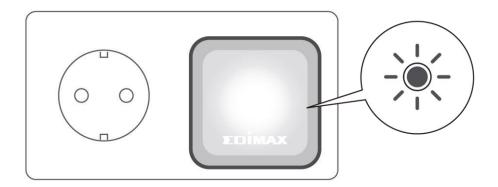
II-3. Reset to Factory Default Settings

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 until the LED is flashing red.



2.Wait for the extender to restart. The extender is ready for setup when the LED displays **on** (red).



III. Browser Based Configuration Interface

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 V-1. Configuring your IP address for more information.

III-1. Login

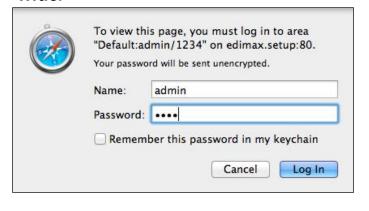
1. Enter *http://edimaxext.setup* into the URL bar of a browser on a network device which is connected to the same Wi-Fi network as the extender.



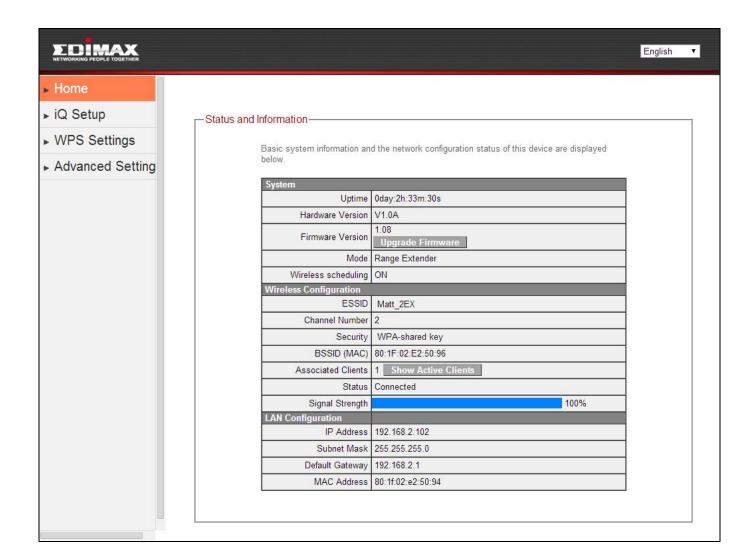
2.You will be prompted for a username and password. The default username is "admin" and the default password is "1234".

Windows: Connect to edimax.setup The server edimax.setup at Default Name:admin Password: 1234 requires a username and password. Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection). User name: Password: Remember my password OK Cancel

Mac:

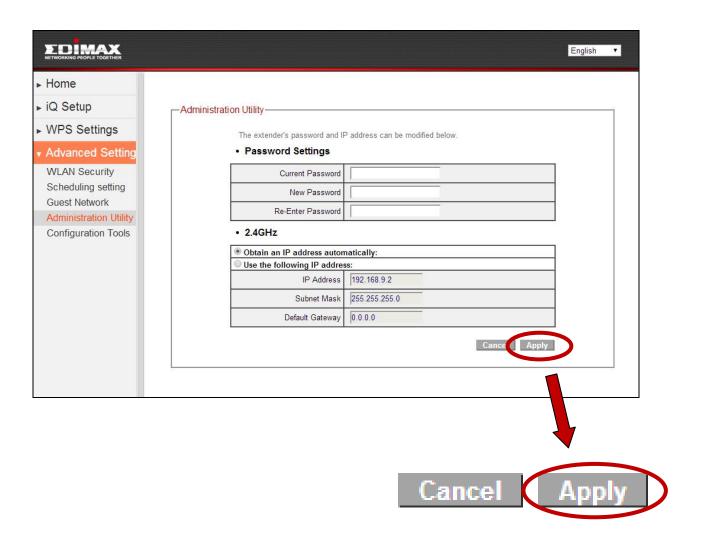


3. You will arrive at the "Status and Information" screen. Use the menu down the left side to navigate.



III-2. Save Settings

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



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

Settings saved successfully.

Please click Apply to restart the system and make the changes take effect.



A

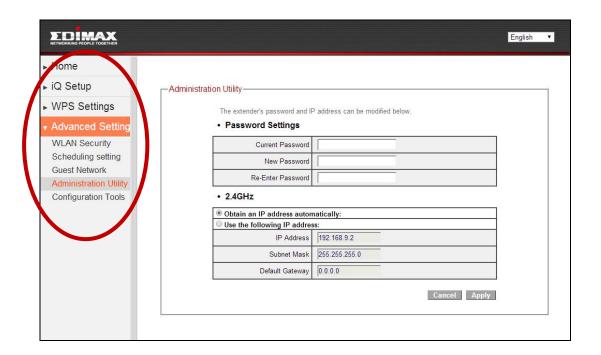
The EW-7438RPn Air needs to restart in order to apply and bring any changes into effect. Use the "CONTINUE" button to make several changes and apply them all together in one restart.

III-3. Main Menu

Use the main menu down the left side to navigate.



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



III-3-1. Home

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

System		
Uptime	0day:4h:52m:9s	
Hardware Version	V1.0A	
Firmware Version	1.08 Upgrade Firmware	
Mode	Range Extender	
Wireless scheduling	ON	
Wireless Configuration		
ESSID	Matt_2EX	
Channel Number	2	
Security	WPA-shared key	
BSSID (MAC)	80:1F:02:E2:50:96	
Associated Clients	1 Show Active Clients	
Status	Connected	
Signal Strength	100%	
LAN Configuration		
IP Address	192.168.2.102	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.2.1	
MAC Address	80:1f:02:e2:50:94	

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.
Wireless Scheduling	Displays whether wireless scheduling is on or
	off.
ESSID	Displays the EW-7438RPn Air's ESSID,
	sometimes also known as SSID. The
	ESSID/SSID is the name used to identify a
	wireless network.
Channel Number	Displays the current wireless channel.
Security	Displays the current wireless security setting.
BSSID (MAC)	Displays the device's BSSID. The BSSID
	identifies the EW-7438RPn Air in the network,
	and is the same as the device's MAC address.
Associated Clients	Displays the number of clients connected to
	the EW-7438RPn Air. Click "Show Active

	Clients" to display a new window showing information about wireless clients.
Status	Displays the current connection status of the EW-7438RPn Air.
Signal Strength	Displays the wireless signal strength from your router/access point to the EW-7438RPn Air.
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.

III-3-2. iQ Setup

You can run the setup wizard again to reconfigure the basic settings of the device. Please refer back to **II-1. Installation** for guidance.

III-3. WPS Settings

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-2. WPS Setup.

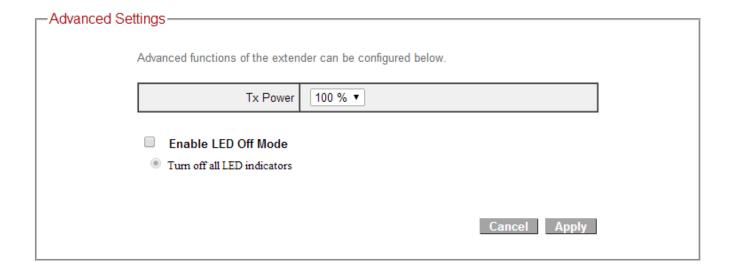


WPS Status	Displays "Configured" or "unConfigured" depending on whether WPS and SSID/security settings for the device have been configured or not, either manually or using the WPS button.
	mot, either mandally or dailing the VVI 3 batton.

Self PIN Code	Displays the WPS PIN code of the device.
Configuration Mode Device is as an AP	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.

III-4. Advanced Settings

The "Advanced Settings" page allows you to adjust the power output and LED operation of the EW-7438RPn Air. The submenu options listed under "Advanced Settings" allow you to configure security, scheduling, guest network and various administrative and management functions.



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.
Enable LED Off	Check this box to enable "LED Off Mode"
Mode	which allows you to select "Turn off all LED
	indicators".

III-4-1. WLAN Security

The security/encryption type and password for your wireless extender is the same as your existing router/access point. On this page you can set a new SSID for your extender and choose to broadcast or hide the extender's SSID.

Broadcast SSID	Enable
Device SSID	Matt_2EX
Security Type	WPA pre-shared key

Broadcast SSID	Enable or disable ESSID broadcast. When enabled, the ESSID will be visible to clients as an available Wi-Fi network. When disabled, the ESSID will not be visible as an available Wi-Fi network to clients — clients must manually enter the ESSID in order to connect. A hidden (disabled) ESSID 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-7438RPn Air's wireless network is displayed here. The security/encryption type is the same as your existing router/access point.

III-4-2. Scheduling Setting

The "Scheduling Settings" page enables you to configure the EW-7438RPn Air's scheduling function, along with the time & date settings. The scheduling function allows you to schedule the extender's Wi-Fi and LED on or off according to your preference.



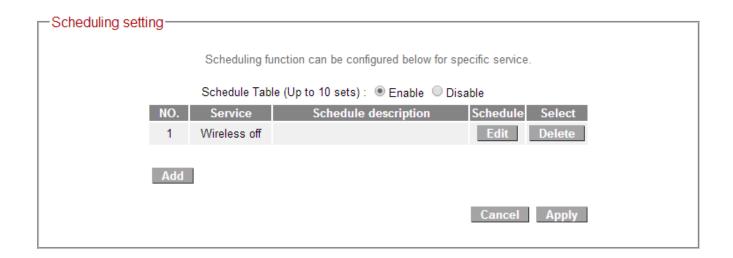
Wireless scheduling can save energy and increase the security of your network.



Set Date & Time	Select "Yes" to set the date & time
Automatically	automatically, and select "No" to set a time
	zone and time server manually.
Time Setting	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.



Time & date and NTP server settings must be configured correctly in order for the scheduling feature to function properly.



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:



 $oldsymbol{A}$ Schedules can be set individually by day or to occur every day.

Service : Wireless off & LED off ▼ Schedule description :

	Start Time (hh.mm)	End Time (hh.mm)	Select
Sunday	0 ▼ : 0 ▼	0 ▼ : 0 ▼	0
Monday	0 ▼ : 0 ▼	0 ▼ : 0 ▼	0
Tuesday	0 ▼ : 0 ▼	0 ▼ : 0 ▼	0
Wednesday	0 ▼ : 0 ▼	0 ▼ : 0 ▼	0
Thursday	0 ▼ : 0 ▼	0 ▼ : 0 ▼	0
Friday	0 ▼ : 0 ▼	0 ▼ : 0 ▼	0
Saturaday	0 ▼ : 0 ▼	0 ▼ : 0 ▼	0
Everday	0 ▼ : 0 ▼	0 ▼ : 0 ▼	0

- **1.** Enter a name for the schedule in the "schedule description" box in the top right corner.
- **2.** Specify a start and end time (hours and minutes) and day (or select "everyday") for the schedule using the drop-down menus.
- **3.** Select the schedule in the "Select" column and click "Save" to save the schedule, or "Back" to cancel and go back to the previous screen.

III-4-3. Guest Network

You can use an additional "guest" wireless network so guest users can enjoy Wi-Fi connectivity without accessing your primary network. The guest network can also be used as a parental control function, allowing you to moderate your child's Internet access.



The guest network is separate from your extender's primary network.

-Guest Network Basic Settings-	
Wireless Guest Name	Guest_Network
	☐ Enable Wireless Clients Isolation
Band	(b+g+n)
Channel Number	1 ▼ (Same as main SSID)
Guest Network Wireless Security	
Encryp	tion Enable ▼
Pre-shared I	Key 12345678 (at least 8 characters)

Enable Guest SSID	Check/uncheck the box to enable/disable the guest Wi-Fi network.
Wireless Guest Name	Enter a reference/ID name for your guest wireless network.
Enable Wireless Clients Isolation	Check the box to enable wireless clients isolation. This prevents wireless clients connected to the extender from communicating with each other and improves security. Typically, this function is useful for corporate environments or public hot spots and can prevent brute force attacks on clients' usernames and passwords.
Band	Displays the wireless standard used for the extender's frequency band: 2.4GHz (b+g+n): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to the extender.

Channel number for the guest network is the same as the main SSID and cannot be adjusted
independently.

Encryption	Enable or disable encryption for the guest network.
Pre-shared Key	When encryption is enabled, enter a pre-shared key (password) for your guest network.



You cannot select a different encryption type (e.g. WEP, TKIP, etc.) for your guest network. The default encryption type is WPA2 which is the most secure encryption type.

III-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-7438RPn Air'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 II-3. Reset to factory default settings for how to reset the device.

Password Settings

Current Password	
New Password	
Re-Enter Password	

2.4GHz

Obtain an IP address automatically:	
Use the following IP address:	
IP Address	192.168.9.2
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0

Current Password	Enter your current password.
New Password	Enter your new password.
Confirmed Password	Confirm your new password.

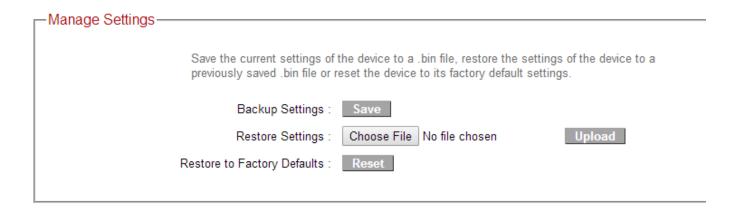
2.4GHz

To have your wireless router automatically assign an IP address to your extender (recommended), select "Obtain an IP address automatically". To assign an IP address to your extender manually, select "Use the following IP address".

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

III-4-5. Configuration Tools

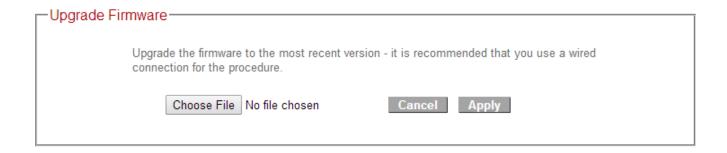
The "Configuration Tools" menu allows you to backup the EW-7438RPn Air's settings, restore the settings to a previous version or restore the EW-7438RPn Air back to its factory default state. You can also upgrade the firmware, reboot the device and export the system log.



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.





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 extender 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. Apply

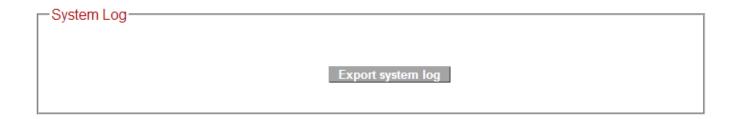


Rebooting the EW-7438RPn Air will not affect the current configuration/settings of the device.

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.



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

IV. EdiRange App

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).

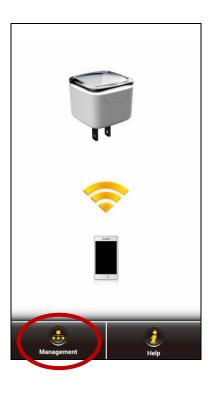
IV-1. Login

After setup you can use the browser based configuration interface to configure advanced settings.

1. Open the EdiRange app.



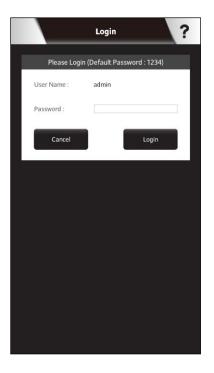
2. Select "Management".



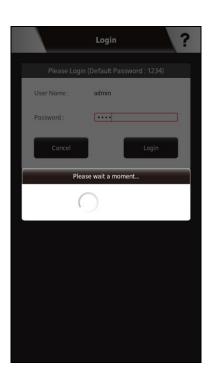
3. Enter the username and password (default username: *admin* default password: *1234*).



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.

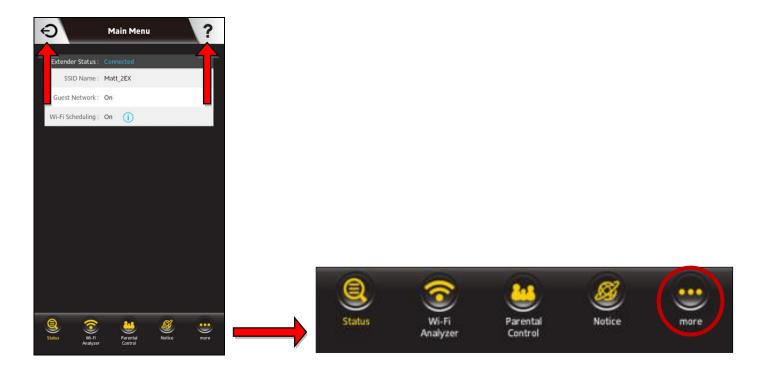


4. Wait for the app to log in.



IV-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:

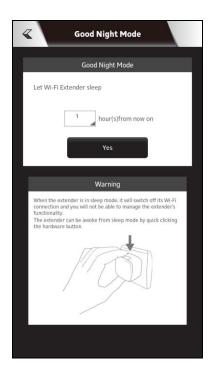


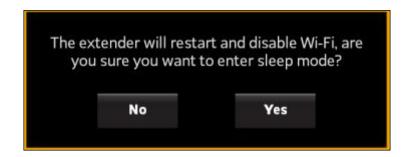
IV-3. Good Night Mode

Good Night Mode will put the extender to "sleep" (switch off Wi-Fi and LED) for a specified number of hours. Enter the number of hours and click "Yes" to activate Good Night Mode.



Your mobile device will be disconnected from the extender during sleep mode since Wi-Fi is disabled. You can wake the extender (back to its fully functional state) anytime by manually pressing the WPS/Reset button.





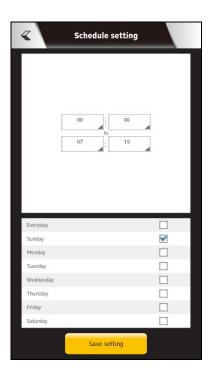
IV-4. Wi-Fi Scheduling

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.

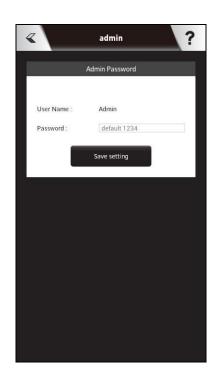






IV-5. Admin

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



V. Appendix

Configuring your IP address V-1.

For first time access to the URL http://edimaxext.setup on a computer 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 V-1-1. 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-7438RPn Air in order to access http://edimaxext.setup.



A The EW-7438RPn Air'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 V-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 extender 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.



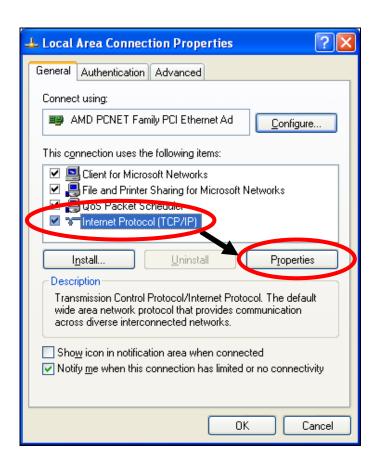
Please remember to change your IP address back to its original value after the device is properly configured.

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

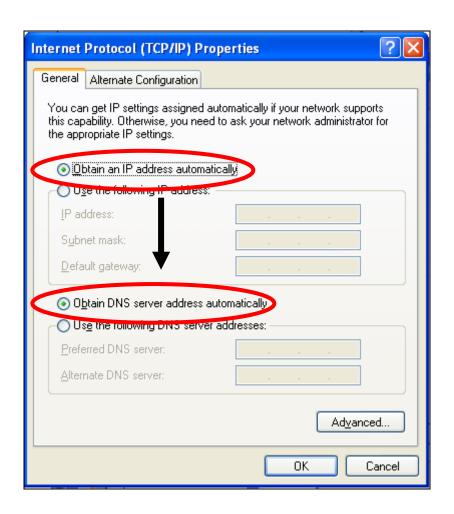
Please follow the instructions appropriate for your operating system.

V-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".

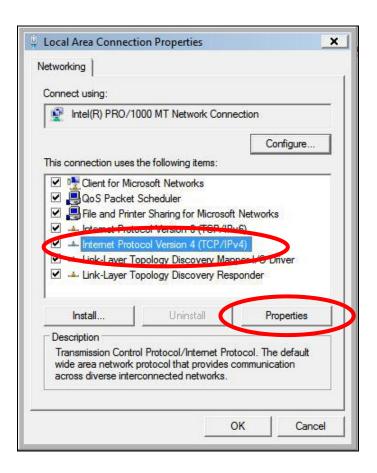


2. "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.

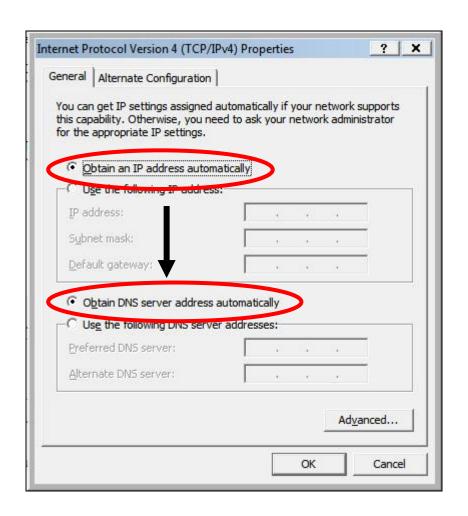


V-1-1-2. Windows Vista

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".

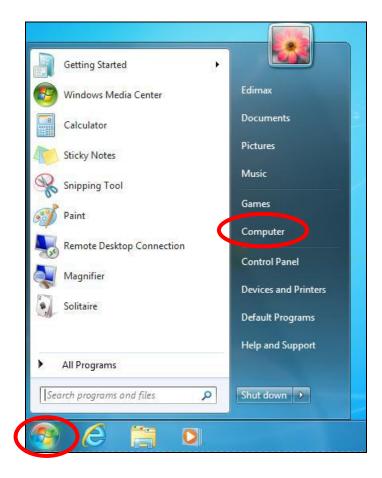


2. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.



V-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".

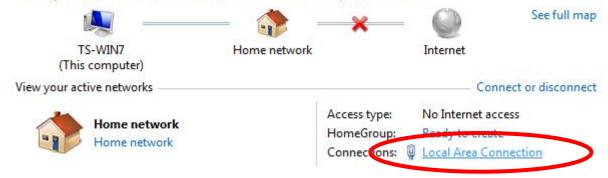


2. Under "Network and Internet" click "View network status and tasks".

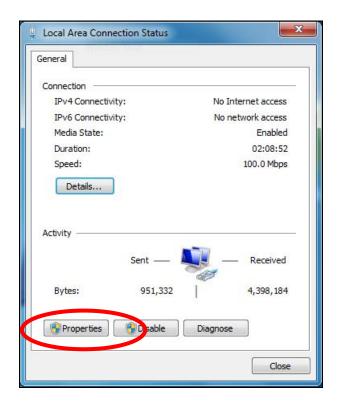


3. Click "Local Area Connection".

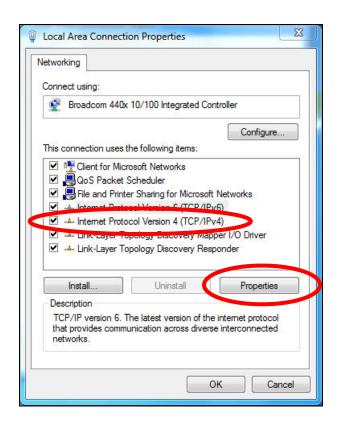
View your basic network information and set up connections



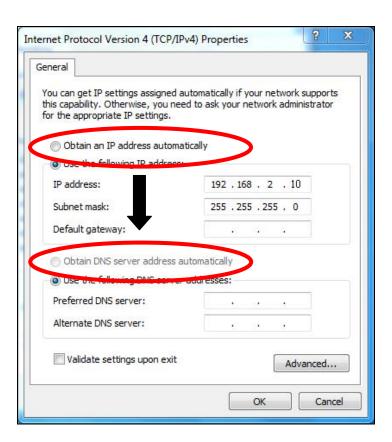
4. Click "Properties".



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

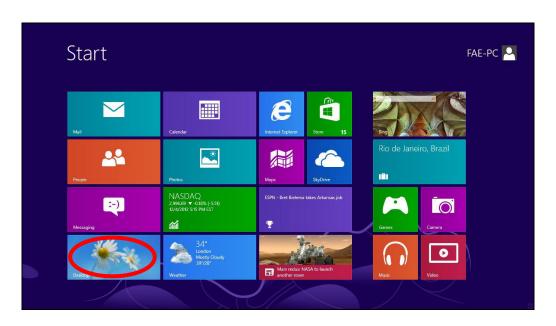


6. Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" should be selected.

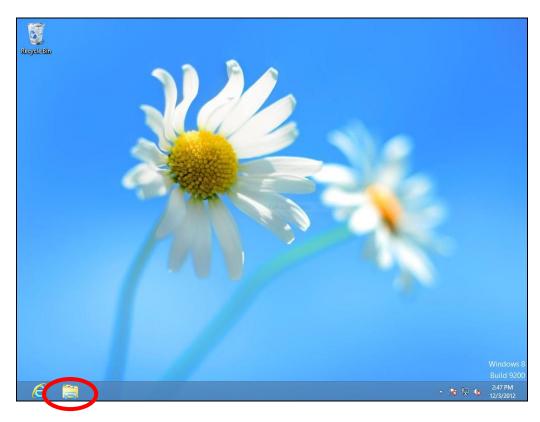


V-1-1-4. Windows 8

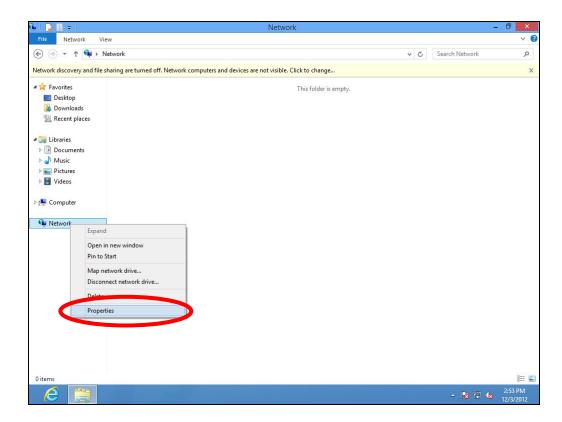
1. From the Windows 8 Start screen, you need to switch to desktop mode. Move your curser to the bottom left of the screen and click.



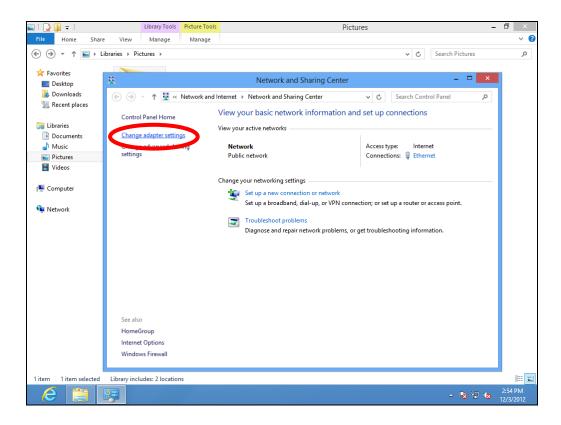
2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.



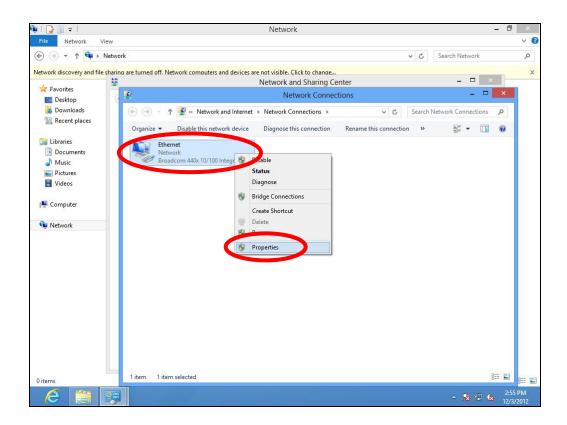
3. Right click "Network" and then select "Properties".



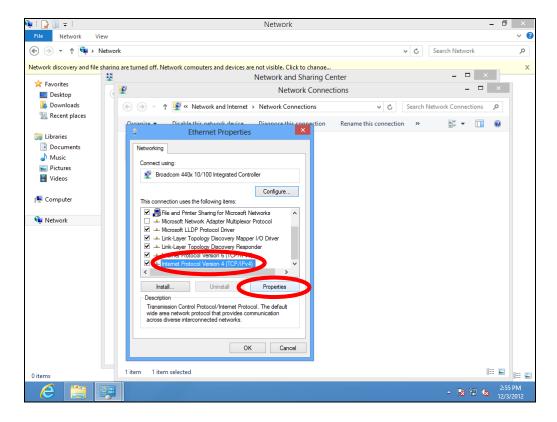
4. In the window that opens, select "Change adapter settings" from the left side.



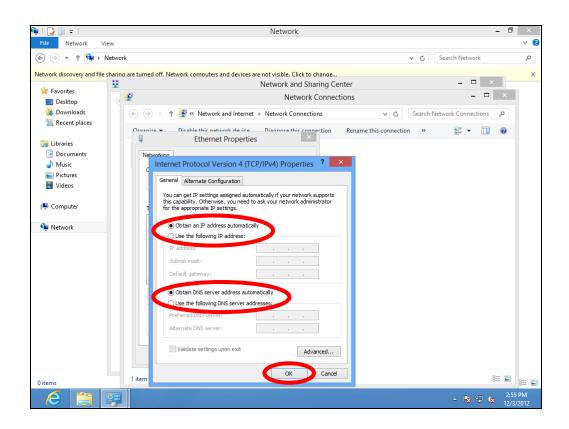
5. Choose your connection and right click, then select "Properties".



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.

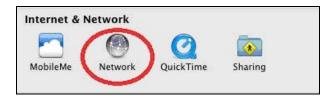


V-1-1-5. Mac OS

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



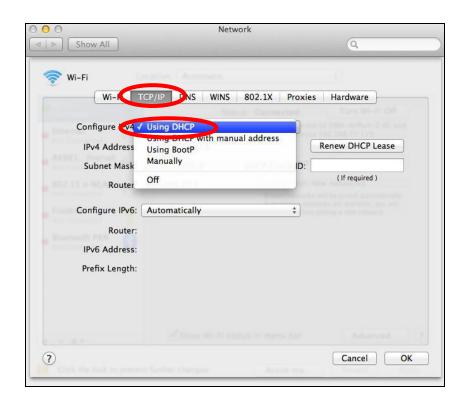
2. In System Preferences, click on "Network".



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.



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

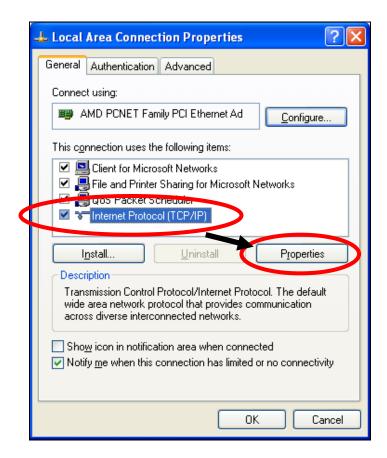
Please follow the instructions appropriate for your operating system. In the following examples we use the IP address **192.168.9.20** though you can use any IP address in the range **192.168.9.x** (x = 3 - 254) in order to access iQ Setup/browser based configuration interface.



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

V-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:

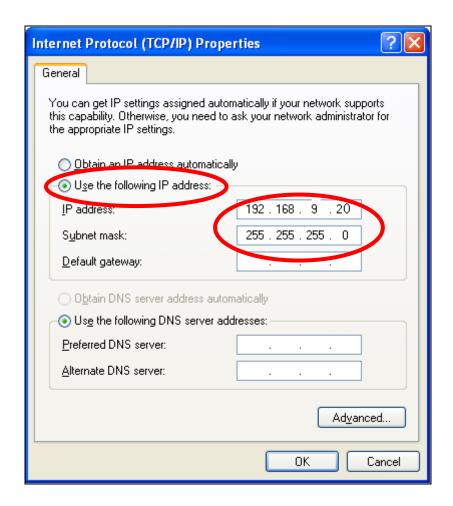


Your existing static IP address will be displayed in the "IP address" field before you replace it. Please make a note of this IP

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

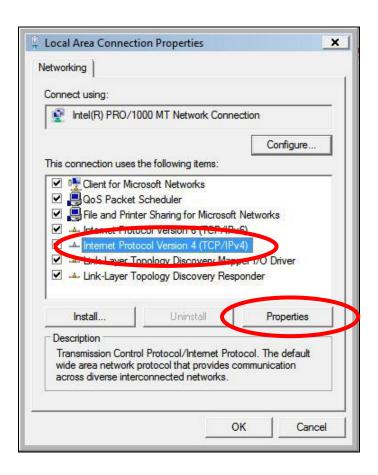
IP address: 192.168.9.20 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



V-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".



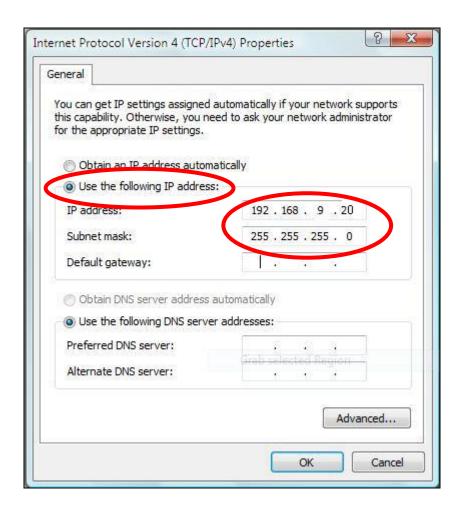
2. Select "Use the following IP address", then input the following values:



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.

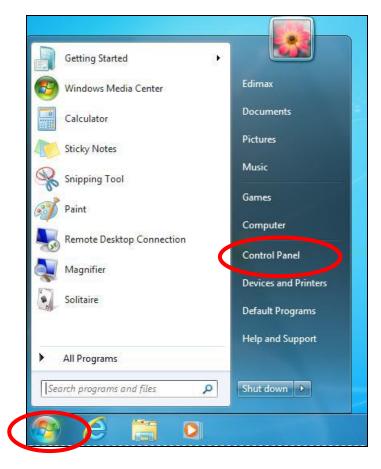
IP address: 192.168.9.20 Subnet Mask: 255.255.255.0

Click 'OK' when finished.



V-1-2-3. Windows 7

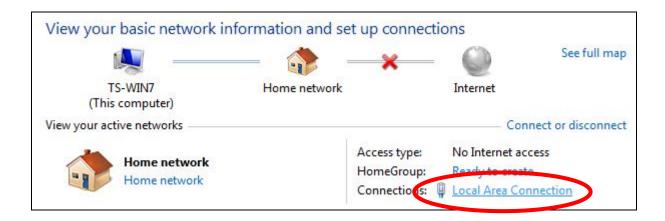
1. Click the "Start" button (it should be located in the lower-left corner of your computer), then click "Control Panel".



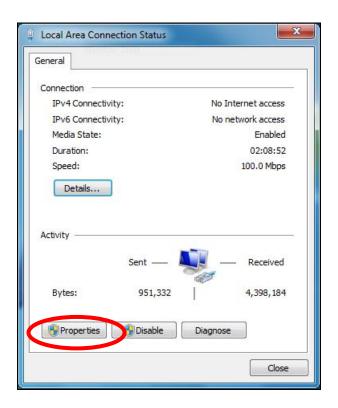
2. Under "Network and Internet" click "View network status and tasks".



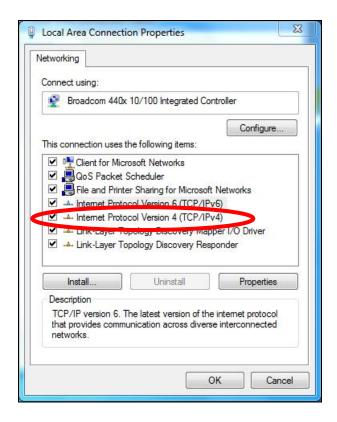
3. Click "Local Area Connection".



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:

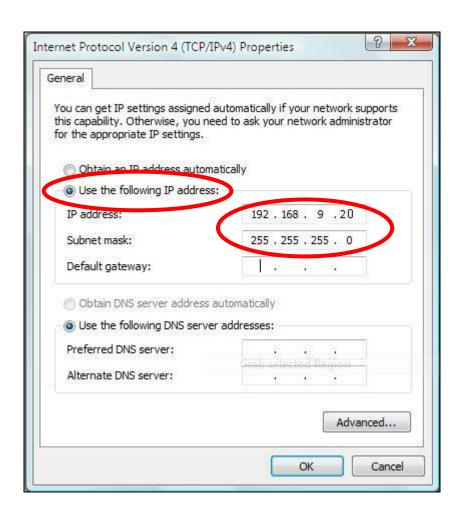


Your existing static IP address will be displayed in the "IP address" field before you replace it. Please make a note of this IP address, subnet mask, default gateway and DNS server addresses.

IP address: 192.168.9.20

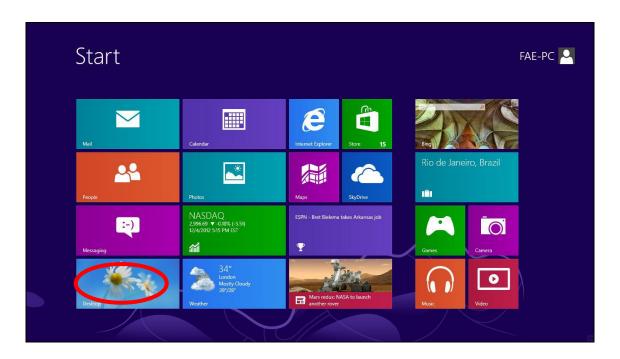
Subnet Mask: 255.255.255.0

Click 'OK' when finished.

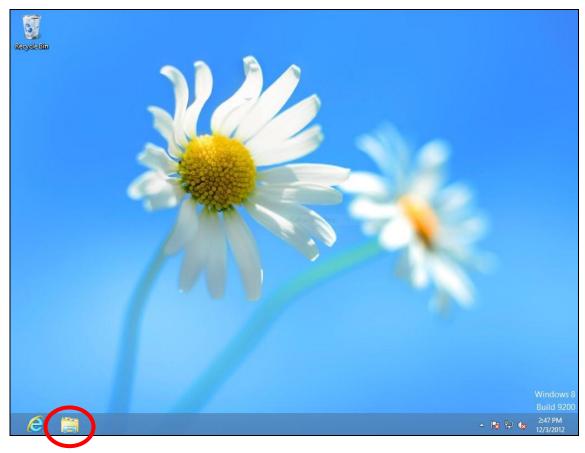


V-1-2-4. Windows 8

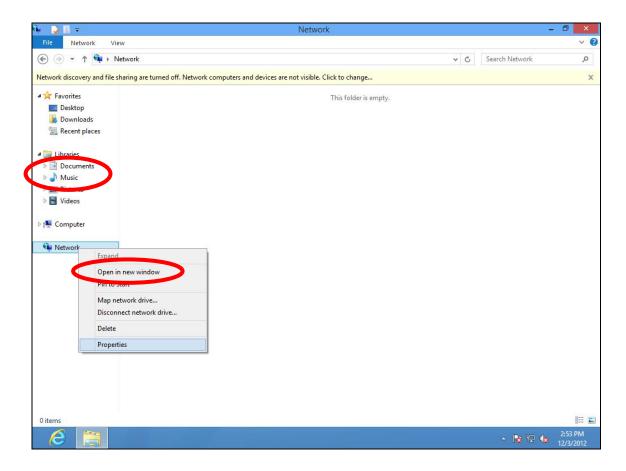
1. From the Windows 8 Start screen, you need to switch to desktop mode. Move your curser to the bottom left of the screen and click.



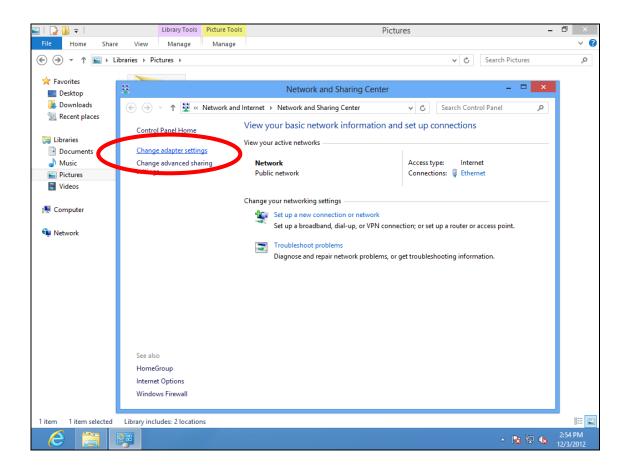
2. In desktop mode, click the File Explorer icon in the bottom left of the screen, as shown below.



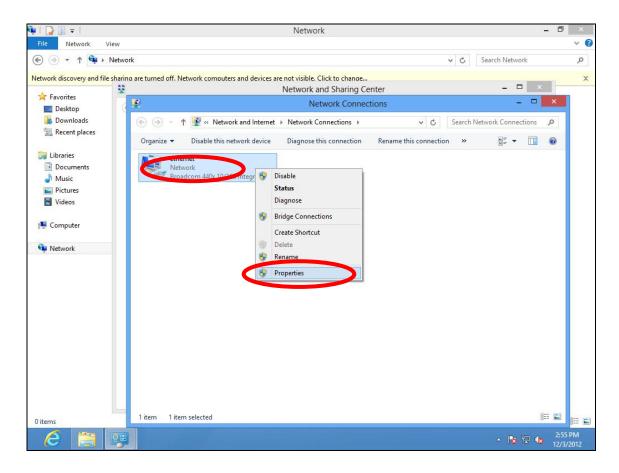
3. Right click "Network" and then select "Properties".



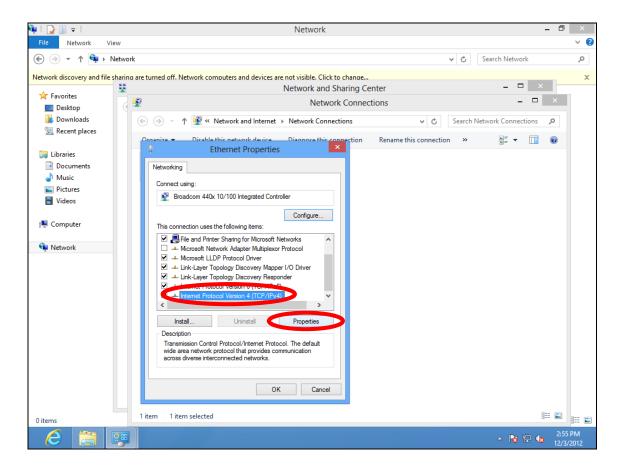
4. In the window that opens, select "Change adapter settings" from the left side.



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

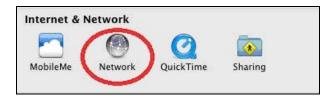
Click 'OK' when finished.

V-1-2-5. Mac

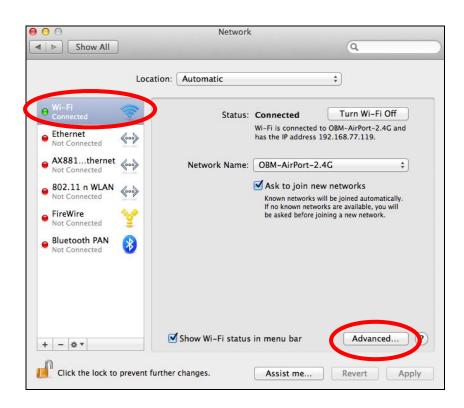
1. Have your Macintosh computer operate as usual, and click on "System Preferences"



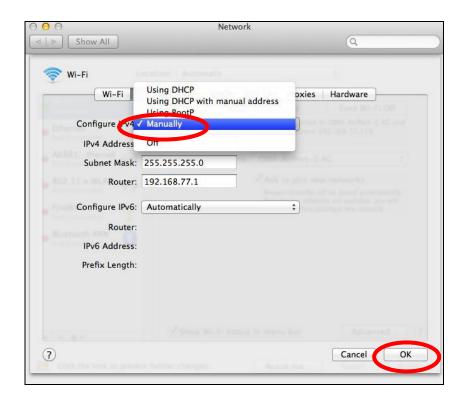
2. In System Preferences, click on "Network".



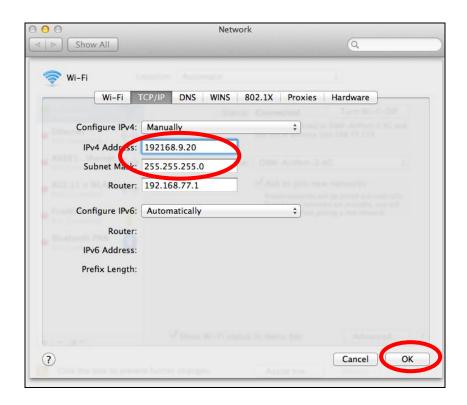
3. Click on "Wi-Fi" in the left panel and then click "Advanced" in the lower right corner.



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.



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

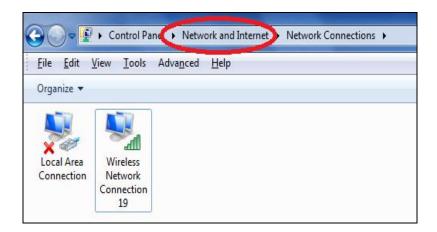
To find your network security key, please follow the instructions appropriate for your operating system.



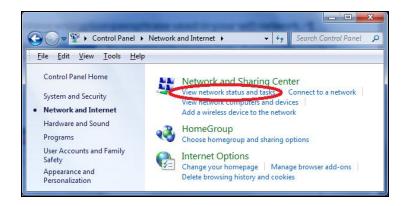
If you are using Windows XP or earlier, please contact your ISP or router manufacturer to find your network security key.

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

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



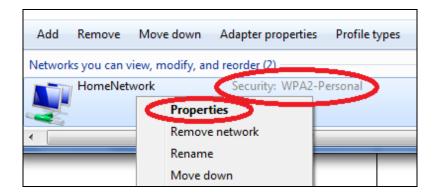
2. Click on "View network status and tasks" which is under the heading "Network and Sharing Center".



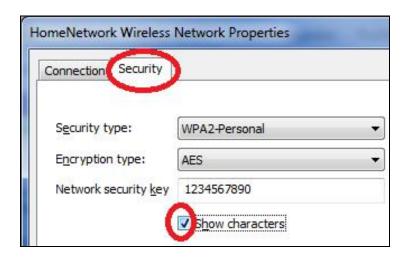
3. Click on "Manage wireless networks" in the left menu.



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".

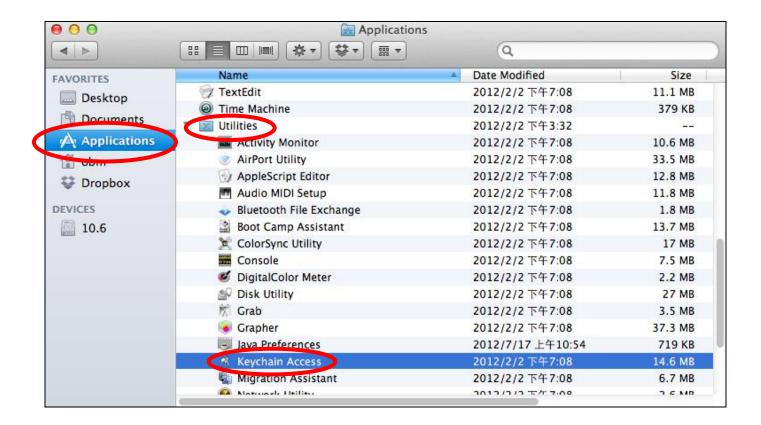


5.Click on the "Security" tab, and then check the box labeled "Show characters". This will show your network security key. Click the "Cancel" button to close the window.

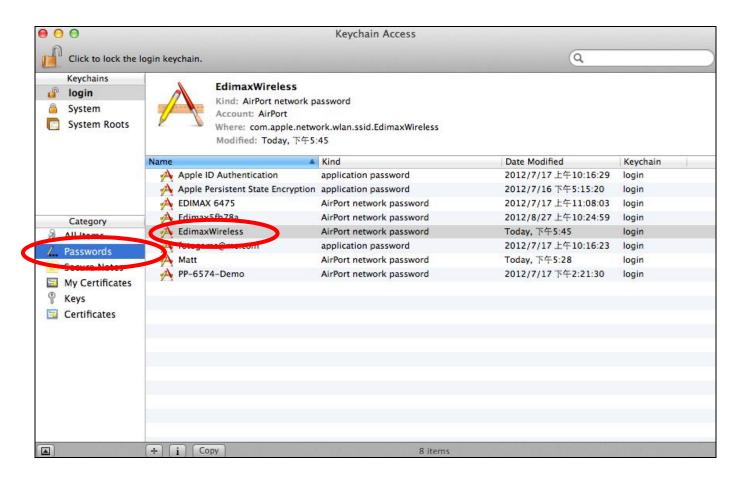


V-1-3-2. Mac

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".



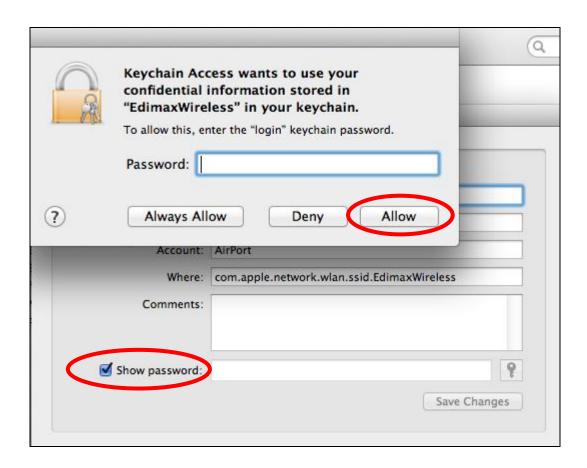
2. Select "Passwords" from the sub-menu labeled "Category" on the left side, as shown below. Then search the list in the main panel for the SSID of your network. In this example, the SSID is "EdimaxWireless" – though your SSID will be unique to your network.



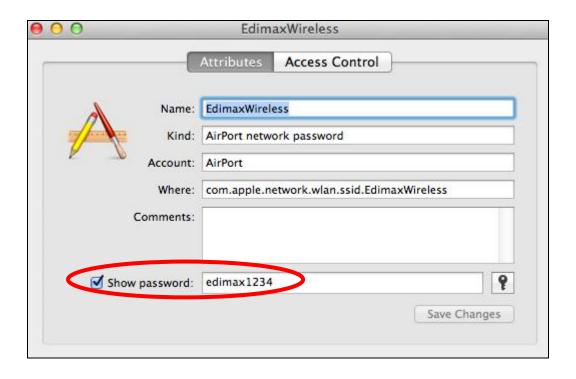
3. Double click the SSID of your network and you will see the following window.



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.

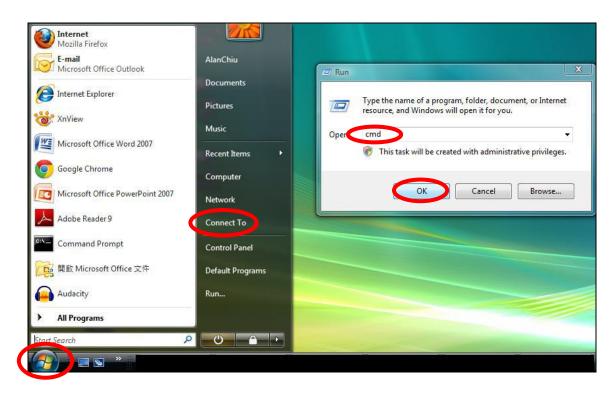


V-1-4. How to Find Your Router's IP Address

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

V-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 CalVindows System 32 (cmd.exe

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

C: Users AlanChia pronfig
```

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

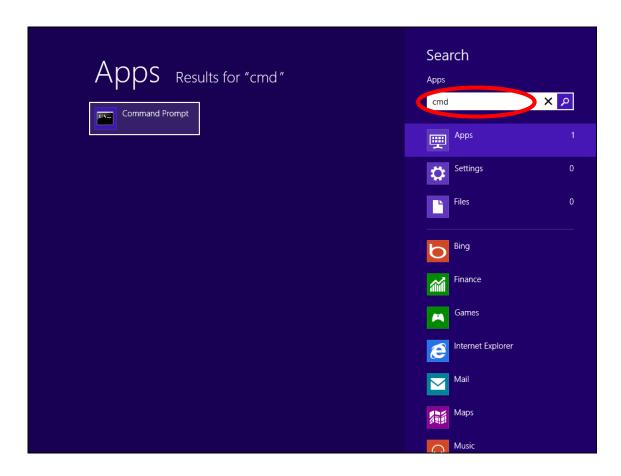
```
_ D X
Administrator: C:\Windows\system32\cmd.exe
Ethernet adapter 區域連線:
  Connection-specific DNS Suffix .:
 192.168.10.254
Wireless LAN adapter 無線網路連線:
  Media State . . . . . . . . : Media disconnected
  Connection-specific DNS Suffix . : edimax.com
Tunnel adapter 區域連線* 6:
  Media State . . . . . . . . . : Media disconnected Connection—specific DNS Suffix . :
Tunnel adapter 區域連線* 7:
                           . . . : Media disconnected
  Media State . . . . . . .
  Connection-specific DNS Suffix .:
C:\Users\AlanChiu>_
```

V-1-4-2. Windows 8

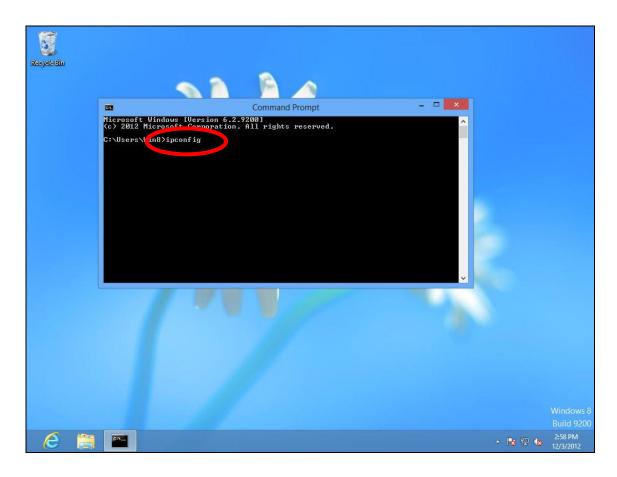
1. From the Windows 8 Start screen, move your curser to the top right corner of the screen to display the Charms bar.



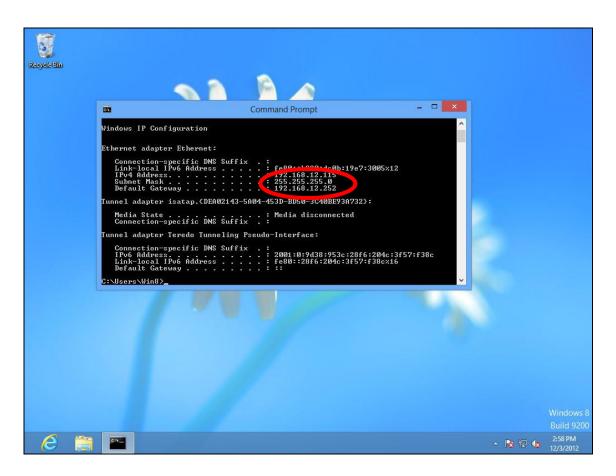
2. Click "Search" and enter "cmd" into the search bar. Click the "Command Prompt" app which be displayed on the left side.



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

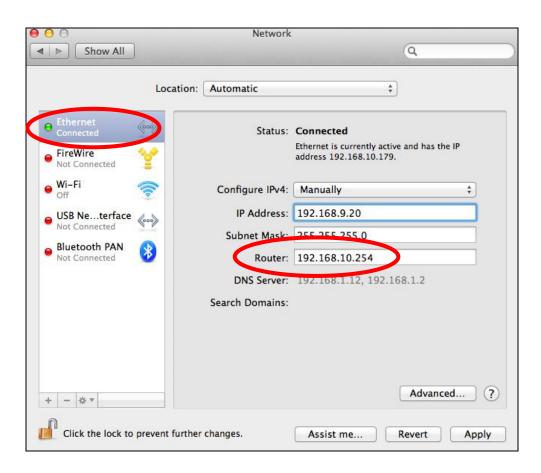


4.Your router's IP address will be displayed next to "Default Gateway".

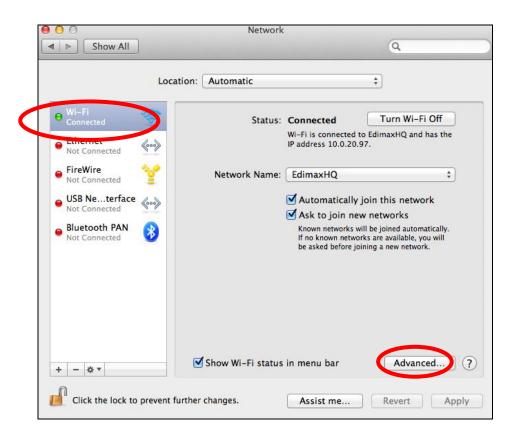


V-1-4-3. Mac

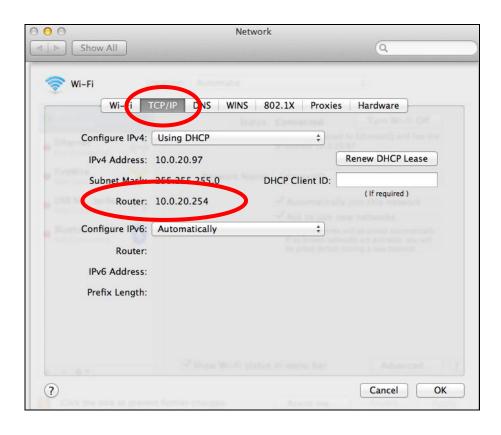
- **1.** Launch "System Preferences" and click on "Network".
- 2. If you are using an Ethernet cable to connect to your network, your router's IP address will be displayed next to "Router".



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".



V-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:

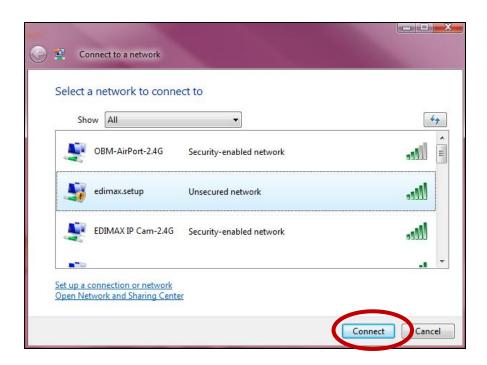


Below is an example of how to connect using Windows Vista – the process may vary slightly for other versions of Windows.

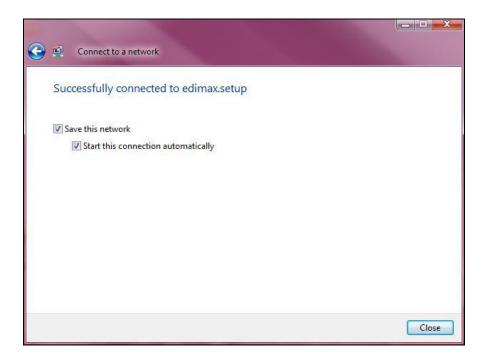
1. Click the network icon (■, □ or ≥) in the system tray and select "Connect to a network".



2. Search for the SSID of your EW-7438RPn Air 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-7438RPn Air's wireless network.



V-3. 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	TCP	23
FTP	TCP	21
SMTP	TCP	25
POP3	TCP	110
H.323	TCP	1720
SNMP	UCP	161
SNMP Trap	UDP	162
HTTP	TCP	80
PPTP	TCP	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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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

FCC Caution

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

R&TTE Compliance Statement

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

Safety

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

EU Countries Intended for Use

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

EU Countries Not Intended for Use

None

EU Declaration of Conformity

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

provisions of Directive 1995/95/EC, 2011/65/EC.

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

directive 1995/95/CE, 2011/65/CE.

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

směrnic 1995/95/ES, 2011/65/ES.

Polski: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami

określonymi Dyrektywą UE 1995/95/EC, 2011/65/EC...

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

Directivei 1995/95/CE, 2011/65/CE.

Русский: Это оборудование соответствует основным требованиям и положениям Директивы

1995/95/EC, 2011/65/EC.

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

(1995/95/EK, 2011/65/EK).

Türkçe: Bu cihaz 1995/95/EC, 2011/65/EC direktifleri zorunlu istekler ve diğer hükümlerle ile

uyumludur.

Українська: Обладнання відповідає вимогам і умовам директиви 1995/95/ЕС, 2011/65/ЕС.

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

1995/95/ES, 2011/65/ES.

Deutsch: Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 1995/95/EC, 2011/65/EC.

Español: El presente equipo cumple los requisitos esenciales de la Directiva 1995/95/EC,

2011/65/EC.

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

della Direttiva 1995/95/CE, 2011/65/CE.

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

van richtlijn 1995/95/EC, 2011/65/EC..

Português: Este equipamento cumpre os requesitos essênciais da Directiva 1995/95/EC, 2011/65/EC.

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

1995/95/EC, 2011/65/EC.

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

bestämmelser i direktiv 1995/95/EG, 2011/65/EG.

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

forordninger i direktiv 1995/95/EC, 2011/65/EC.

suomen kieli: Tämä laite täyttää direktiivien 1995/95/EY, 2011/65/EY oleelliset vaatimukset ja muut

asiaankuuluvat määräykset.

FOR USE IN AT BE CY CZ OK ET FT FR

DE GR HU ET IV IT IV MT N. P. PT

SK SD ES SE GB IS ID NO CH BG RO TR







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 directive 1999/95/EC, and directive 2011/65/EC(RoHS).

Equipment: N300 Smart Wi-Fi Extender

Model No.: EW-7438RPn Air

The following European standards for essential requirements have been followed:

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

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);Am1:2009

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

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Printed Name: Vivian Ma Title: Director

Edimax Technology Europe B.V.

Date of Signature: March 30, 2014

Signature:

Printed Name: Albert Chang

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