

EW-7416APn v2 & EW-7415PDn



Getting Started

Before you start using this access point, please check if there's anything missing in the package, and contact your dealer of purchase to claim any missing items.

- Wireless access point x 1
- CD (EZmax Setup Wizard, Multi-language Quick Installation Guide and User Manual) x 1
- Power adapter x 1
- 3dBi antenna x 2
- Accessory kit x 1
- Quick installation guide x 1

Top Panel

Wireless 802.11n Access Point		_	_	
EW-7416APn	PWR	WLAN	LAN	_
EDIMAX				
EDIMAX Wireless 802.11n Access Point with PoE	Ф	-	-	

LED Status

Item	Color	Status	Description
		On	Device is powered.
PWR (Power)	Green	Flashing	Device is booting up/resetting.
		Off	Device is not powered.
		On	WPS mode is enabled.
WLAN	Orange	Flashing	Data is being transmitted wirelessly.
(WITEIESS LAIN)		Off	Data is not being transmitted wirelessly.
LAN	Green	On	Ethernet port is connected to a valid device.

Flashing	Data is being transmitted through the Ethernet cable.
Off	No valid connection.

Rear Panel



a. Antenna Connector

This is where you connect the antennas. It is a round connector (standard reverse SMA).

b. WPS/Reset Button

Press this button for less than 5 seconds to activate the WPS function. Press and hold this button for 10 seconds, until the PWR LED starts flashing, to reset the access point to factory default settings.

c. LAN Port

Connects this access point to other Ethernet devices (switches, routers or other wired network devices) – for the EW-7415PDn this is where you connect the access point to a PoE switch.

d. 5V DC

This is where you connect the power adapter.



Note: If you are using the EW-7415PDn with a PoE switch, you **do not** need to connect the power adapter.

Quick Setup

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



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



3. Here you will see all of your network connections. Remove any Ethernet cable that may be connected, so that the "Ethernet" status in the left sidebar displays "Not Connected", as shown below. Then, you need to ensure that your Macintosh's Wi-Fi is switched off. Select "Wi-Fi" from the left sidebar.



4. If your Wi-Fi is switched on, click on the button labeled "Turn Wi-Fi Off". The "Network" screen should now look like the screen below, where under the heading "Wi-Fi" in the left sidebar, the status is shown as "Off".



5. Connect one end of an Ethernet cable to the Ethernet port on your computer. Then connect the other end to an Ethernet port on the access point, as shown below. Plug the power adapter into the device's 5V power port, and plug the adapter into a wall socket.



The PWR LED and corresponding LAN LED on the access point should now light up.

6. Network Preferences will now display an Ethernet adapter, as shown below. The status of "Ethernet" should be "Connected".

 O O O O Show All 	1	Network	Q
	Location: Automatic	c	\$
Ethernet Connected FireWire Not Connected	(**)	Status:	Connected Ethernet is currently active and has the IP address 169.254.120.253.
 Wi-Fi Off Bluetooth PAN No IP Address 	Configu IP A Subne DNS Search Do	re IPv4: (address: et Mask: Router: Server: omains:	Using DHCP ‡ 169.254.120.253 255.255.0.0
+ - 🕸 🔻	make changes.	(Advanced ? Assist me Revert Apply

7. Click on "Ethernet" in the left panel and then click the drop down arrow for the menu labeled "Configure IPv4" in the right panel. From the drop down menu, select "Manually".

00		Network
I ► Show All]	٩
	Location: Autom	natic ‡
Ethernet Connected FireWire Not Connected	(m) **	Status: Connected Ethernet is currently active and has the IP address 169.254.120.253.
 Wi-Fi Off Bluetooth PAN No IP Address 	Conf B Sul Sul Search	igure IPv4 V Using DHCP Using DHCP with manual address Ving BootP bonet Mask Manually Router ONS Server Create PPPoE Service In Domains:
+ - & .	prevent further changes	Advanced (



Note: The access point uses the default IP address 192.168.2.1, which may not be in the same IP address subnet of your network. Accordingly, you need to modify the IP address of your Macintosh to 192.168.2.10, as shown in the next step.



Note: Please refer to the user manual for guidance on how to assign a new IP address to the **access point**. If the default IP remains unchanged, you will need to repeat this process and modify the IP of your **Macintosh** every time you wish to configure the access point.

8. In the panel on the right side, enter IP address 192.168.2.10 and subnet mask 255.255.255.0. Click on "Apply".

00		Network		
▲ ▶ Show All			C	2
	Location:	Automatic	\$	
Ethernet Connected	~~~>	Status:	Connected	and has the IP
● FireWire Not Connected			address 169.254.41.103.	and has the n
♥i-Fi Off	<u></u>	Configure IPv4:	Manually	\$
e Bluetooth PAN		IP Address:	192.168.2.10	
No IP Address	·	Subnet Mask:	255.255. <mark>255</mark> .0	
		Router:		
		DNS Server:		
		Search Domains:		
+ - \$*			(Advanced ?
Click the lock to	prevent further	changes.	Assist me	Revert Apply

9. In the left sidebar, "Ethernet" should now display "Connected" as shown below. In the right panel, you should see the IP address 192.168.2.10 and subnet mask 255.255.255.0.

		Network	0
Show All	J		ų
	Location:	Automatic	\$
• Ethernet Connected	~~	Status:	Connected
● FireWire Not Connected	*		Ethernet is currently active and has the IP address 192.168.2.10.
⊖ Wi-Fi Off		Configure IPv4:	Manually ÷
Bluetooth PAN		IP Address:	192.168.2.10
No IP Address	•	Subnet Mask:	255.255.255.0
		Router:	
		DNS Server:	
		Search Domains:	
+ - 🌣 🛛			Advanced ?
Click the lock to	prevent further	r changes.	Assist me Revert Apply

10. Open your internet browser and enter <u>http://192.168.2.1</u> in the address box. In the pop up window, enter the following username and password:

Username:	admin
Password:	1234

Click "Log In".



11. This will open the access point's web management interface, which allows you to configure the functions and settings of the access point. Please refer to the user manual for more information about configuration; the following is an example of how to set the access point to "Universal Repeater" mode.

Home	Star	tus and Information
Basic Settings	You can use the information to m and hardware version.	onitor the Access Point's MAC address, runtime code
WPS Setting	System	
Advanced Settings	Uptime	0day:2h:18m:45s
Security	Hardware Version	Rev. A
Radius Server	Runtime Code Version	1.08
	Wireless Configuration	
MAC Filtering	Mode	AP
System Utility	ESSID	Edimax AP
Configuration Tool	Channel Number	11
	Security	WPA-shared key
• Upgrade	BSSID	00:1f:1f:73:4d:50
Reset	Associated Clients	0
	LAN Configuration	
	IP Address	192.168.2.1
	Subnet Mask	255.255.255.0
	Default Gateway	0.0.0.0
	MAC Address	00:1f:1f:73:4d:50

Universal Repeater Mode

 On the "Status and Information" page, click "Basic Setting" in the left menu. Then click the arrow to open the menu labeled "Mode". Select "Universal Repeater" mode.

	Select Language 📫
NETWORKING PEOPLE TOGETHER	
 Home Basic Settings WPS Setting 	This page allows you to define parameters are used for the wir Mode v Universal Repeater
Advanced Settings	Band 2.4 GHz (B+G+N) +
Security	MAIN ESSID Edimax AP Multiple ESSID
Radius Server	Channel Number 11 ÷
MAC Filtering	Associated Clients Show Active Clients
System Utility	Root AP SSID
Configuration Tool	Select Site Survey Select Site Survey
Upgrade	
Reset	Apply Cancel

Click the "Select Site Survey" button. You will see a list of available Wi-Fi networks, as shown below. Choose your Wi-Fi network and click on "Done". If your Wi-Fi network is not shown, "Refresh" the list of available networks, then "select" your Wi-Fi network.



Note: Make a note of the "Encryption" listed for your Wi-Fi network, as you will need it later in this procedure, during **Step 4**. In this example,

"Encryption" is "WPA1PSK WPA2PSK'.



Note: PSK means "Pre-Shared Key".

Click "Done" to close this window.

Wirele	ss Site	Survey					
This page connect it	provides to manually v	ool to scan the wireless netwo when client mode is enabled.	rk. If any Access Po	oint or IBSS	is found, you could cho	ose to	
Select	Channel	SSID	BSSID	Encryption	Туре	Signal	Band
0	1	AirPortExpress_Jimmy	28:37:37:46:D3:CA	AES	WPA2PSK	60	11b/g/n
0	2	~`!@#\$%^&*()_+{} :"<>?-= []\;',./	00:1F:1F:C3:F8:58	TKIPAES	WPA1PSKWPA2PSK	5	11b/g/n
0	3	DemoRoom_Router1	00:1F:1F:61:C0:08	TKIPAES	WPA1PSKWPA2PSK	15	11b/g/n
0	7	6228NC	00:1F:1F:C0:24:31	AES	WPA2PSK	76	11b/g/n
0	6	Android Hotspot4382notejerry	50:CC:F8:D0:45:E2	TKIPAES	WPAPSK	24	11b/g/n
0	9	EdimaxHQ	10:6F:3F:47:03:D0	NONE	OPEN	81	11b/g/n
۲	11	OBM-AirPort-2.4G	10:9A:DD:87:47:CF	TKIPAES	WPA1PSKWPA2PSK	65	11b/g/n
0	11	Matt	80:1F:02:48:C7:74	TKIPAES	WPA1PSKWPA2PSK	100	11b/g/n
\bigcirc	11	OBM-AirPort-2.4G5FD490	80:1F:02:5F:D4:90	AES	WPA2PSK	86	11b/g/n

2. The "Root AP SSID" is your main Wi-Fi router. The "MAIN ESSID" is the SSID of the repeater. Click the box labeled "MAIN ESSID" and enter a name for reference. In the example below we used the name "repeater". Different SSIDs ensure that you can easily differentiate between devices. Click on "Apply".

Mode	Universal Repeater \$	
Band	2.4 GHz (B+G+N) \$	
MAIN ESSID	repeater Multiple ESSID	
Channel Number	11 +	
Associated Clients	Show Active Clients	
Root AP SSID	OBM-AirPort-2.4G	
Select Site Survey	Select Site Survey	

3. You will see a screen which displays "Save settings successfully!" Choose "Continue".

we cotting	e eucoseful	lbel						
Jave settings successfully!								
u may press CO	NTINUE button to co	ontinue configuri	ng other setting	is or press AF	PLV button t	o restart the	system to mak	e the changes take effe
a may press co		intinue configuri	ig other setting	s or press Ar		o restart the a	system to mak	e the changes take ener
CONTINUE								
CONTINUE								



Note: Please do not choose "Apply" at this point. It is necessary to continue and configure the security settings of the access point before it can function.

4. Select "Security" from the left sidebar in the Edimax web management interface. This will take you to the screen shown below. Under the heading "Security Settings", open the menu labeled "Encryption". Select the appropriate type of encryption, based on the security settings in your existing Wi Ei network, as displayed in Step 1. In this example, we

your existing Wi-Fi network, as displayed in **Step 1**. In this example, we select "WPA pre-shared key".

•	Home Basic Settings WPS Setting	Security This page allows you setup the wireless security. Turn or Encryption Keys could prevent any unauthorized access • Select SSID	n WEP or WPA by using to your wireless network.
	Advanced Settings	SSID choice repeater \$	
۰	Security	Security Settings	
0	Radius Server	Encryption	
0	MAC Filtering	Enable 802.1x Authentica WPA pre-shared key WPA RADIUS	Apply Cancel
	System Utility		
0	Configuration Tool		
0	Upgrade		
۲	Reset		



Note: You need to select the same encryption as your existing Wi-Fi network, otherwise this repeater mode cannot connect to it.

5. Then you need to enter your **existing** network security settings. For "WPA pre-shared key" encryption, as shown in the next screenshot, select "WPA2(AES)" in the field marked "WPA Unicast Cipher Suite". Underneath, open the menu labeled "Pre-shared Key Format" and choose "Passphrase". Finally enter your existing wireless network password into the field labeled "Pre-Shared Key". For other encryption types, please refer to the user manual for detailed instructions.



Note: You need to enter your **existing** wireless network password. If you do not know your existing network password, please refer to **Appendix How To Find Your Network Security Key.**

When this is complete, click "Apply".

	Security			
is page allows you setup the wir cryption Keys could prevent any	eless security. Turn on WEP or WPA by using unauthorized access to your wireless network.			
Select SSID				
SSID choice	repeater +			
Security Settings				
Encryption	WPA pre-shared key 💠			
WPA Unicast Cipher Suite	○WPA(TKIP) ●WPA2(AES) ○WPA2 Mixed			
Pre-shared Key Format	Passphrase +			
Pre-shared Key	······			
		Apply	Car	icel

6. You will then see the following screen. Please click "Apply" to restart the system and bring the changes into effect.

Save settings	successfully	/!				
You may press CONTI	NUE button to con	inue configuring other	settings or press APPI	Y button to restart t	the system to make	the changes take effect.
CONTINUE	APPLY					

7. The system will restart. Please wait for it to complete.

System	Restartin	g! Please	wait for a	while !
OK(25)				

8. Return to your Macintosh's "Network" screen, found under "System Preferences". Click "Ethernet" in the left panel and open the drop down menu labeled "Configure IPv4". Select "Using DHCP" and click on "Apply".

 O O Show All 	Network	٩
	Location: Automatic	÷
Ethernet Connected FireWire Not Connected	Status:	Connected Ethernet is currently active and has the IP address 10.0.1.4.
e Wi-Fi	Configure IPv4:	Using DHCP
👝 Bluetooth PAN 🛛 👧	IP Address:	10.0.1.4
No IP Address	Subnet Mask:	255.255.255.0
	Router:	10.0.1.1
	DNS Server:	10.0.1.1
	Search Domains:	edimax.com
+ - **		Advanced ?
Click the lock to prev	ent further changes.	Assist me Revert Apply

9. Disconnect the access point from your Macintosh by removing the connecting Ethernet cable. The "Ethernet" status in the left sidebar should change to "Not Connected".

Select "Wi-Fi" in the left sidebar and click the "Turn Wi-Fi On" button in the right panel. Open the "Network Name" menu and choose your access point (Main ESSID) name from the list. In this case, the network was named "repeater".

● ○ ○		Network			
▲ ► Show All				Q	\supset
	Location:	Automatic		•	
Wi-Fi Connected Ethernet Not Connected		Status:	Connected Wi-Fi is connected to re address 10.0.1.3.	Turn Wi-Fi Off	
FireWire Not Connected	*	Network Name:	repeater	\$	
Bluetooth PAN No IP Address	8		Ask to join new n Known networks will b If no known networks a be asked before joining	etworks e joined automatically. are available, you will g a new network.	
+ - **		Show Wi-Fi status	in menu bar	Advanced ?	
Click the lock to	prevent further	changes.	Assist me	Revert Apply	

The access point should now be fully operational. The "Wi-Fi" status should display "Connected". Verify your connection by opening a web browser in an appropriate location.



Note: Please refer to the user manual for guidance on Access Point mode, AP Client mode, and Repeater mode installation.

Hardware Installation

Access Point Mode

Connect one port of the device to your router or xDSL modem. You can now connect to the device through a wired connection by connecting your computer to it with an Ethernet cable, or connect to the device wirelessly by searching and connecting to the device name you set up.



AP Client Mode

Connect one port of the device to the appliance you wish to connect to the Internet wirelessly, such as a computer, game console, or smart TV.



Repeater Mode

Position the device in a location for optimal wireless extension, such as the middle of your house. You can connect to the device wirelessly by searching and connecting to the device name you set up.



Appendix How to Find Your Network Security Key

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".

00	Applications		
		Q	
FAVORITES	Name	Date Modified	Size
Desktop	🞯 TextEdit	2012/2/2 下午7:08	11.1 MB
	Time Machine	2012/2/2 下午7:08	379 KB
Documents	🔻 🗽 Utilities	2012/2/2 下午3:32	
Applications	Activity Monitor	2012/2/2 下午7:08	10.6 MB
obm (AirPort Utility	2012/2/2 下午7:08	33.5 MB
	AppleScript Editor	2012/2/2 下午7:08	12.8 MB
- Diopbox	Audio MIDI Setup	2012/2/2 下午7:08	11.8 MB
DEVICES	🐟 Bluetooth File Exchange	2012/2/2 下午7:08	1.8 MB
10.6	Boot Camp Assistant	2012/2/2 下午7:08	13.7 MB
	💥 ColorSync Utility	2012/2/2 下午7:08	17 MB
	🚟 Console	2012/2/2 下午7:08	7.5 MB
	🧭 DigitalColor Meter	2012/2/2 下午7:08	2.2 MB
	🔊 Disk Utility	2012/2/2 下午7:08	27 MB
	🕅 Grab	2012/2/2 下午7:08	3.5 MB
	🖲 Grapher	2012/2/2 下午7:08	37.3 MB
	- Java Preferences	2012/7/17 上午10:5	4 719 КВ
	🕺 Keychain Access	2012/2/2 下午7:08	14.6 MB
	Migration Assistant	2012/2/2 下午7:08	6.7 MB
	Alatuariz Heilitu	つ01つ /つ 元が 7·00	D C MD

 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.

• •	0	Keychain Access							
P	Click to lock the lo	ogin key	chain.				Q		
2 2 2	Keychains login System System Roots	EdimaxWireless Kind: AirPort network pa Account: AirPort Where: com.apple.netwo Modified: Today, 下午5:4			assword ork.wlan.ssid.EdimaxWireless :45				
		Name		A	Kind		Date Modified	Keychain	
		A	Apple ID	Authentication	application password		2012/7/17 上午10:16:29	login	
		A	Apple Pe	ersistent State Encryption	application password		2012/7/16 下午5:15:20	login	
		A	EDIMAX	6475	AirPort network passwo	rd	2012/7/17 上午11:08:03	login	
	Category		Seminaxo	107.04	AirPort network passwo	rd	2012/8/27 上午10:24:59	login	
0	All Items	A	EdimaxV	Vireless	AirPort network passwo	rd	Today, 下午5:45	login	
1	Passwords	Δ	fotogam	e@me.com	application password		2012/7/17 上午10:16:23	login	
/	Fasura Natar	A	Matt		AirPort network passwo	rd	Today, 下午5:28	login	
		A	PP-6574	1–Demo	AirPort network passwo	rd	2012/7/17 下午2:21:30	login	
8	My Certificates								
Ŷ	Keys								
20	Certificates								
		+	i) Cop	y		8 items			

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

N	Name:	EdimaxWireless
	Kind:	AirPort network password
	Account:	AirPort
	Where:	com.apple.network.wlan.ssid.EdimaxWireless
C	omments:	
Show p	bassword:	ę

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".

	Keychain Acc confidential i "EdimaxWire To allow this, er Password:	tess wants to use your information stored in less" in your keychain. hter the "login" keychain password.
?	Always All	ow Deny Allow
	Where: Comments:	com.apple.network.wlan.ssid.EdimaxWireless
	Show password:	Save Changes

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.

00	EdimaxWireless
	Attributes Access Control
Name:	EdimaxWireless
Kind:	AirPort network password
Account:	AirPort
Where:	com.apple.network.wlan.ssid.EdimaxWireless
Comments:	
Show password:	edimax1234
	Save Changes



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