

BR-6428nS V3 / BR-6438nS BR-6228nS V3 / BR-6238nS



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CONTENTS

Ι.	Product In	oformation	. 1
	I-1.	Package Contents	1
	I-2.	LED Status	2
	I-3.	Back Panel	3
	I-4.	Safety Information	4
II.	Installatio	n	. 5
	II-1.	Wi-Fi Router Mode	8
	II-2.	Access Point Mode	12
	II-3.	Range Extender Mode	16
	II-4.	Wireless Bridge Mode	22
	II-5.	WISP Mode	28
	II-6.	WPS Setup	36
	II-7.	Reset to Factory Default Settings	36
III.	Browser B	ased Configuration Interface	37
	III-1.	Login	37
	III-2.	Save Settings	39
	III-3.	Main Menu	40
	III-3-1.	Status	41
	III-3-2.	Setup Wizard	42
	III-3-3.	Internet/WISP	44
	III-3-3-1.	WAN Setup	45
	III-3-3-1-1.	Dynamic IP	45
	III-3-3-1-2.	Static IP	46
	III-3-3-1-3.	РРРоЕ	48
	III-3-3-1-4.	РРТР	50
	III-3-3-1-5.	L2TP	52
	III-3-3-1-6.	WISP	54
	III-3-3-2.	DDNS	55
	III-3-4.	LAN	57
	III-3-5.	2.4GHz Wireless	60
	III-3-5-1.	Basic	60
	III-3-5-1-1.	Disable	64
	III-3-5-1-2.	WEP	65
	III-3-5-1-3.	WPA Pre-Shared Key	66
	III-3-5-1-4.	WPA Radius	67
	III-3-5-2.	Guest/ Multiple SSID	68
	III-3-5-3.	WPS	.71

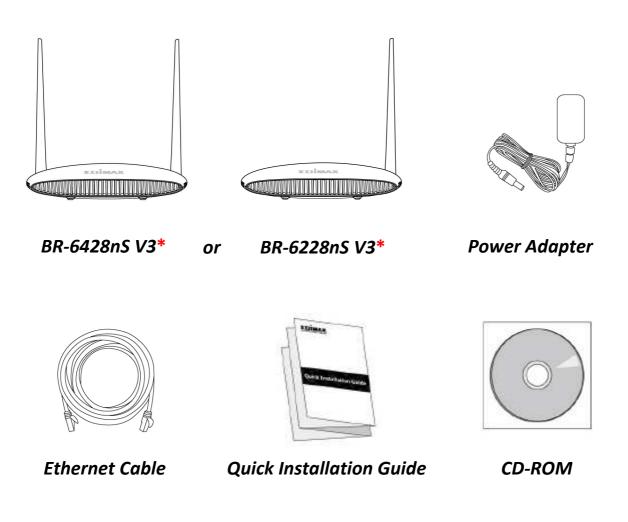
	III-3-5-4.	Access Control	72
	III-3-5-5.	Schedule	74
	III-3-6.	Firewall	76
	III-3-6-1.	URL Blocking	76
	III-3-6-2.	Access Control	78
	III-3-6-3.	DMZ	82
	III-3-6-4.	DoS	83
	III-3-7.	QoS	85
	III-3-7-1.	QoS	85
	III-3-7-2.	iQoS	88
	III-3-8.	Advanced	90
	III-3-8-1.	Static Routing	90
	III-3-8-2.	Port Forwarding	91
	III-3-8-3.	Virtual Server	93
	III-3-8-4.	2.4GHz Wireless	94
	III-3-8-5.	IGMP	96
	III-3-8-6.	UPnP	97
	III-3-9.	Administration	98
	III-3-9-1.	Time Zone	98
	III-3-9-2.	Password	99
	III-3-9-3.	Remote Access	100
	III-3-9-4.	Backup/Restore	101
	III-3-9-5.	Upgrade	101
	III-3-9-6.	Restart	102
	III-3-9-7.	Logs	102
	III-3-9-8.	Active DHCP Client	103
	III-3-9-9.	Statistics	103
N	Annendiv		104
	IV-1.	Configuring your IP address	
	IV-1-1.	How to check that your computer uses a dynamic IP address	
	IV-1-1-1.	Windows XP	
	IV-1-1-2.	Windows Vista	
	IV-1-1-3.	Windows 7	
	IV-1-1-4.	Windows 8	
	IV-1-1-5.	Mac OS	
	IV-1-2.	How to modify the IP address of your computer	
	IV-1-2-1.	Windows XP	
	IV-1-2-2.	Windows Vista	
	IV-1-2-3.	Windows 7	
	IV-1-2-4.	Windows 8	
	IV-1-2-5.	Mac	128

IV-1-3.	How to Find Your Network Security Key	
IV-1-3-1.	Windows 7 & Vista	
IV-1-3-2.	Mac	
IV-1-4.	How to Find Your Router's IP Address	136
IV-1-4-1.	Windows XP, Vista & 7	136
IV-1-4-2.	Windows 8	
IV-1-4-3.	Mac	141
IV-2.	Connecting to a Wi-Fi network	143
IV-3.	Troubleshooting	145
IV-4.	Glossary	149

I. Product Information

I-1. Package Contents

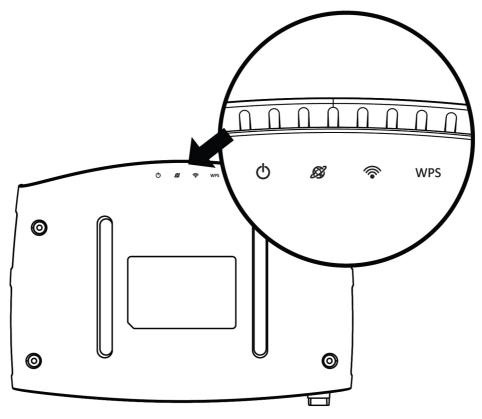
Before you start using this product, please check if there is anything missing in the package, and contact your dealer to claim the missing item(s):



* BR-6428nS V3 and BR-6438nS are actually the same designed wireless router with different names.

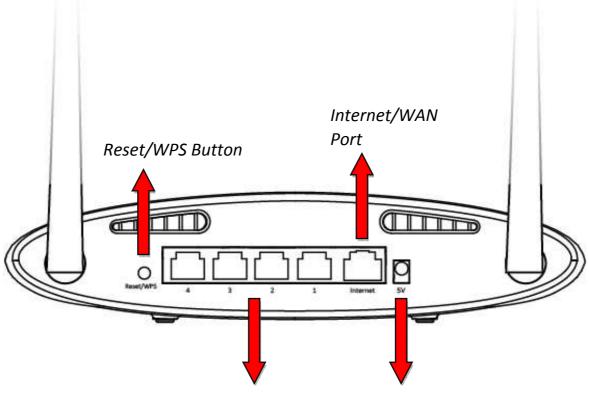
* BR-6228nS V3 and BR-6238nS are actually the same designed wireless router with different names.

I-2. LED Status



LED	Color	LED Status	Description
Power	White	On	Device is on.
Φ	white	Off	Device is off.
Internet	Dhua	On	Internet is connected.
ø	Blue	Flashing	No Internet connection.
Wi-Fi	Blue	On	Wi-Fi activity (transferring/receiving data).
(Dide	Off	Wi-Fi not active.
WPS		On	WPS connection established (displays on for one minute).
WPS	Blue	Flashing	WPS in progress.
		Off	No WPS connection.

I-3. Back Panel



LAN Ports 1–4

Power Port

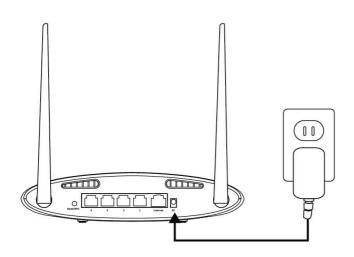
I-4. Safety Information

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

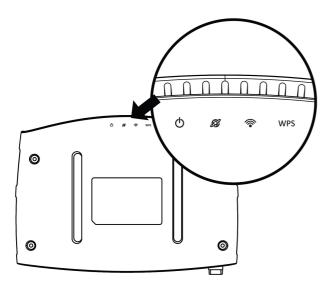
- 1. The device is designed for indoor use only; do not place it outdoors.
- 2. Do not place the device in or near hot/humid places, such as a kitchen or bathroom.
- 3. Do not pull any connected cable with force; carefully disconnect it from the BR-6428nS V3/BR-6228nS V3.
- 4. Handle the device with 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

1. Plug the included power adapter into the device's 5V DC power port and the other end into an electrical socket.



2.Ensure that the power LED is lit. If not, the device is not properly connected.



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

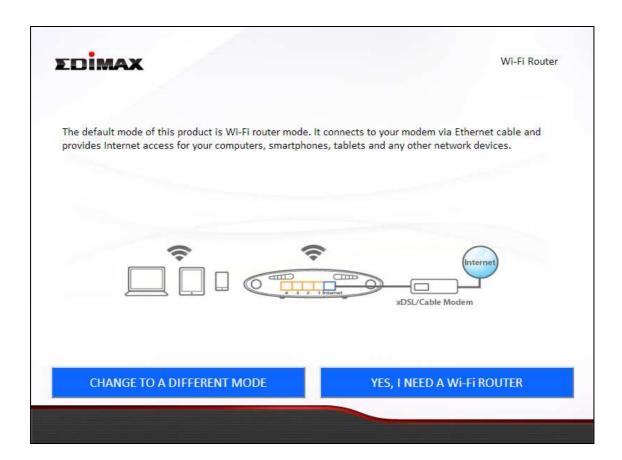
iOS 4 or Android 4 and above are required for setup on a smartphone or tablet.

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



If you cannot access http://edimax.setup, please make sure your computer is set to use a dynamic IP address. Refer to <u>IV-1</u>. <u>Configuring your IP address</u> for more information.

5. Choose if you want to use your product in its default Wi-Fi router mode or in a different mode.

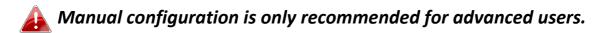


The device's five available modes are outlined below:

Wi-Fi Router Mode	The device connects to your modem and provides 2.4GHz Internet (wireless and Ethernet) access for your network devices.
Access Point Mode	The device connects to an existing router via Ethernet cable and provides 2.4GHz Internet (wireless and Ethernet) access for your network devices.
Range Extender Mode	The device connects wirelessly to your existing 2.4GHz network and repeats the wireless signal(s).
Wireless Bridge Mode	The device connects to a network device for example: TV, gaming console, or media player via Ethernet cable and acts as a wireless receiver, allowing the network device to join your Wi-Fi network.
WISP Mode	The device connects wirelessly to your Wireless Internet Service Provider and provides 2.4GHz Internet (wireless and Ethernet) access for your network devices.

II-1. Wi-Fi Router Mode

1. Select whether to use the iQ Setup wizard (recommended) to detect your Internet connection type, or enter the settings manually.

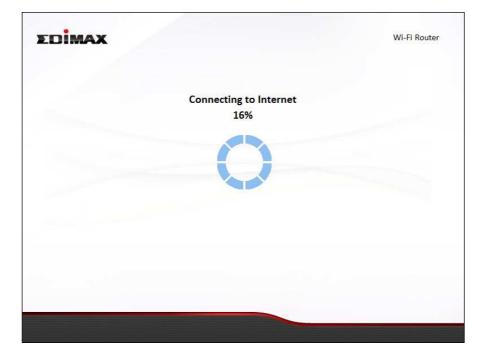


EDIMAX		Wi-Fi Route
	d can help detect your Internet connection type, and w u can setup your device manually.	alk you through setup
	I. iQ Setup wizard	
	② 2. Configure manually	
	Back Next	

2. Connect the Internet port of your device to the LAN port of your modem using an Ethernet cable, and then click "Next".



3. Please wait a moment while the device tests the connection.



4. Click "Next" to continue and configure the device's wireless network.

EDIMAX		Wi-Fi Router
	Internet is now connected	
PI	lease click "Next" to configure your wireless network.	
	Back Next	

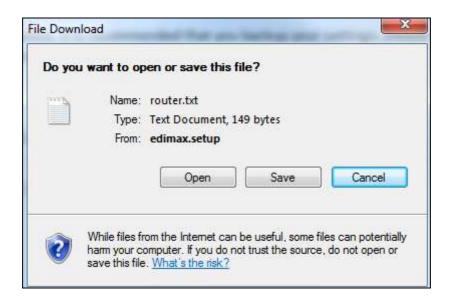
5. Enter a name and password for your 2.4GHz wireless network, then click "Next" to continue.

			Wi-Fi F	louter
Please set your Wi	Fi network na	ime (SSID) and Wi-Fi passv	vord.	
Wi-Fi network name (2.4	GHz): ed	imax_2.4G_8196D1		
Wi-Fi password (WPA2-A	ES): ab	cd1234		
	(at l	east 8 characters)		
	Back	Next		

6. A summary of your configuration will be displayed, as shown below depending on your Internet type. Check that all of the details are correct and then click "Next" to proceed.

	Wi-Fi Router
omplete. It is recommended that you bac do so. Then click "Next" when you are re	ckup your settings, please click "Backup this ady to continue.
Internet Type :	ma
Username :	@wifi.hinet.net
Password :	17800.000
(2.4 GHz) Wi-Fi network name :	edimax_2 . 4G_8196D1
Wi-Fi password :	abcd1234
Backup this conf	iguration
Back	Next

If you wish to backup the device's settings, click "Backup this configuration" to open a new window and save your current configuration to a .txt file.



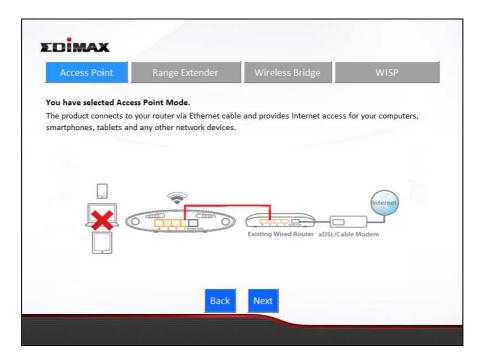
7. Please wait while the device applies your settings.



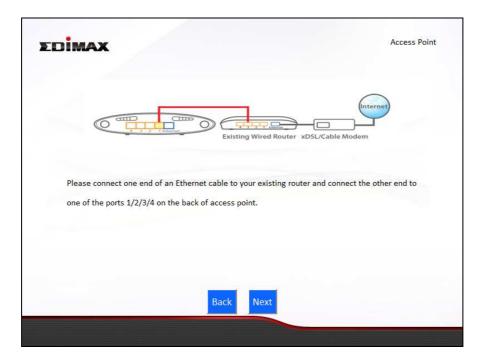
8. A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.

II-2. Access Point Mode

1. Select "Access Point" from the top menu and click "Next".



2. Connect the LAN port of your BR-6428nS V3/BR-6228nS V3 to the LAN port of your existing router using an Ethernet cable, then click "Next".



3. Select "Obtain an IP address automatically" or "Use the following IP address" for your BR-6428nS V3/BR-6228nS V3. If you are using a static IP, enter the IP address, subnet mask and default gateway. Click "Next" to proceed to the next step.

Please set th	ie IP addre	ess of th	e access	point.	
Obtain an IP add	ress autor	matically			
Use the following	g IP addre	55			
IP address :	192	. 168	. 2	. 3	
Subnet Mask :	255	. 255	. 255	. 0	
Default gateway :	0	. 0	. 0	. 0	

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

4. Enter a name and password for your 2.4GHz wireless network, then click "Next" to continue.

Please set your Wi-Fi netw	vork name (SSID) and Wi-Fi password.
Wi-Fi network name (2.4GHz):	edimax_2.4G_8196D1
Wi-Fi password (WPA2-AES):	abcd1234
	(at least 8 characters)
	Back Next

5. A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click "Next" to proceed.

EDİMAX			Access Point
	lete. It is recommended that you ba o. Then click "Next" when you are re		ickup this
	(2.4 GHz) Wi-Fi network name :	edimax_2.4G_6937C1	
	Wi-Fi password :	abcd1234	
	Backup this confi	guration	
	Back	Next	

If you wish to backup the device's settings, click "Backup this configuration" to open a new window and save your current configuration to a .txt file.

	access point.txt Text Document, 1	48 bytes	
From:	edimax.setup		115
	Open	Save	Cancel

6. Please wait a moment until the BR-6428nS V3/BR-6228nS V3 is ready.



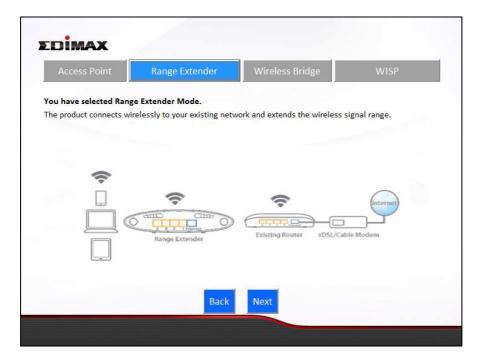
8. A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.

EDIMAX	Access Point
Congratulati	on!
You have successfully completed setup. Please connect to th	e device's new Wi-Fi network name (SSID) listed
below. For advanced settings, please access http://edimax.se	etup from your computer's web browser.
(2.4 GHz) Wi-Fi network name :	edimax_2.4G_6937C1
Wi-Fi password :	abcd1234

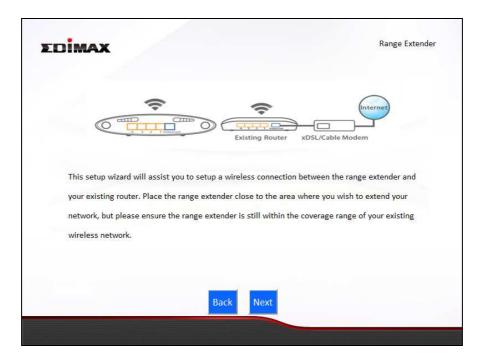
9. The BR-6428nS V3/BR-6228nS V3 is working and ready for use. Refer to <u>IV-2. Connecting to a Wi-Fi network</u> if you require more guidance.

II-3. Range Extender Mode

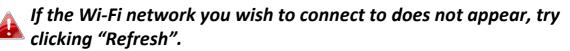
1. Select "Range Extender" from the top menu and click "Next".



2. Please ensure your BR-6428nS V3/BR-6228nS V3 is within Wi-Fi range of your existing wireless router. Click "Next" to continue.



3. Select the Wi-Fi network name (SSID) which you wish to connect to for the specified frequency and click "Next" to continue.



	2.4GHz Wireless Site Survey	
The range extender is sun	veying all available routers nearby. Please select	the router you wish to connect t
	connect is not listed, try clicking "Refresh". To cor	
"Setup extender manually		
an a		
Setup extend	day many alle	
 Setup extend 	ier manually	
14 The 15 The 1		25
Select	SSID	Signal
Select	SSID WAP1750-E6D4C0_G_2	Signal
Select		The second se
Select	WAP1750-E6D4C0_G_2	100%
Select	WAP1750-E6D4C0_G_2 WAP1750_G	100%
Select	WAP1750-E6D4C0_G_2 WAP1750_G MIS-Jacky	100% 100% 100%

To connect to a hidden SSID, check the "Setup extender manually" box and enter the details manually on the next page, as shown below.

2.4GH	Hz Wireless Site Survey
Please set a new Wi-Fi network name (SSID) f	for the range extender if you wish, and set the security key for
your existing wireless network if required.	
Wi-Fi network name (SSID):	EDIMAX2.4G
Range extender SSID:	
Encryption	WPA2 V
Security Type	TKIP AES
Key Format	Passphrase 🔻
Wi-Fi password (Security Key):	abcd1234

4. Enter your existing wireless network's security key/password in the "Security Key" field and click "Next" to continue.

		ACIT Window Star Commen
	2	.4GHz Wireless Site Survey
Please set a new Wi-Fi n your existing wireless ne		D) for the range extender if you wish, and set the security key for
	Device SSID	EDIMAX2.4GHZ_2EX
	Security Key	abcd1234

5. Wait a moment while the BR-6428nS V3/BR-6228nS V3 tests the wireless connection.

EDİMAX		Range Extender
	Testing wireless connection 45%	

6. Select "Obtain an IP address automatically" or "Use the following IP address" for your BR-6428nS V3/BR-6228nS V3. 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" is the recommended setting for most users. The IP address will be displayed in brackets.

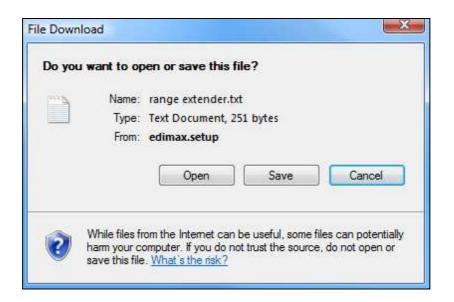
Connec	tion test complete. Ple	ease click '	'Next" v	vhen vou a	re ready to co	ntinue.
-				1		
	Obtain an IP add	ress auton	natically	(IP:10.0.	20.136)	
	Use the following	g IP addres	s			
	IP address :	192	. 168	. 9	. 3	
	Subnet Mask :	255	255	255		
	Default gateway :	0	. 0]. [0	. 0	

7. A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click "Next" to proceed.

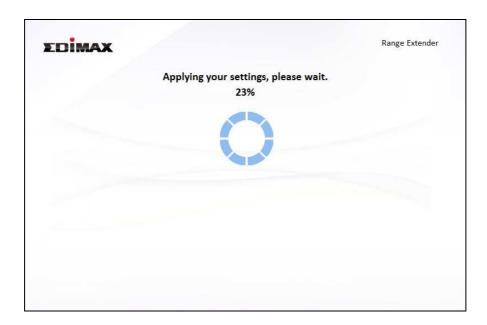
The device will use the same wireless password/security key as the existing wireless network.

DİMAX				Range Extender
onfiguration is complet nfiguration" to do so.			ckup your settings, please cl ady to continue.	ick "Backup this
	IP add	lress :	192.168.10.147	
(2	(2.4 GHz) Wi-Fi network name :		EDIMAX2.4GHZ_2EX	
Wi-Fi password :		abcd1234		
		Backup this conf	iguration	

If you wish to backup the BR-6428nS V3/BR-6228nS V3's settings, click "Backup this configuration" to open a new window and save your current configuration to a .txt file.



8. Please wait a moment until the BR-6428nS V3/BR-6228nS V3 is ready.



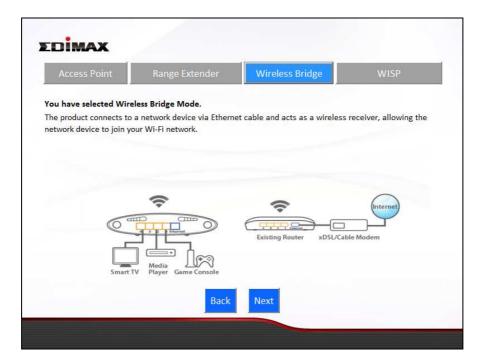
9.A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.

	Congratulati	ion!
You have successfully comp	eted setup. Please connect to th	ne device's new Wi-Fi network name (SSID) liste
below. For advanced setting	s, please access http://edimax.s	etup from your computer's web browser.
(2.4 GHz) Wi-Fi network name :	EDIMAX2.4GHZ_2EX
	Wi-Fi password :	abcd1234

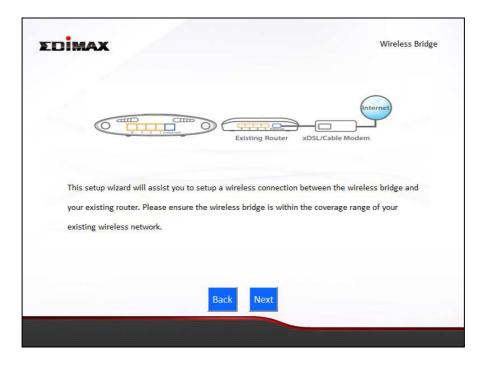
10. The BR-6428nS V3/BR-6228nS V3 is working and ready for use. Refer to IV-2. Connecting to a Wi-Fi network if you require more guidance.

II-4. Wireless Bridge Mode

1. Select "Wireless Bridge" from the top menu and click "Next".



2. Please ensure your BR-6428nS V3/BR-6228nS V3 is within Wi-Fi range of your existing wireless router. Click "Next" to continue.



3. Select the Wi-Fi network name (SSID) which you wish to connect to and click "Next" to continue.



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

	2.4GHz Wireless Site Survey	
f the router you wish to conn Setup wireless bridge manua		
Select	ridge manually. SSID	Signal
0	Matt	100%
Q	FREE WI-FI	100%
O	OBM_68U	100%
0	OBM to LAN	100%
0	Edimax IP CAM_2.4G	100%
0		
0	m	•

To connect to a hidden SSID, check the "Setup extender manually" box and enter the details manually on the next page, as shown below.

2.4GH	Iz Wireless Site Survey	
Please enter your existing Wi-Fi network name	e (SSID) and security key if required.	
Wi-Fi network name (SSID):		
Encryption	WPA Pre-shared Key 💌	
WPA Type	WPA(TKIP) WPA2(AES)	
Key Format	Passphrase 🔹	
Wi-Fi password (Security Key):		
	Back Next	

4. Enter your existing wireless network's security key/password in the "Security Key" field and click "Next" to continue.

EDİMAX		
	2.4GHz Wireless Site Survey	
Please enter you	existing Wi-Fi network security key	if required.
Device	SID FREE WI-FI	
Security K	y	
	Back Next	

5. Wait a moment while the BR-6428nS V3/BR-6228nS V3 tests the wireless connection.



7. Select "Obtain an IP address automatically" or "Use the following IP address" for your BR-6428nS V3/BR-6228nS V3. If you are using a static IP, enter the IP address, subnet mask and default gateway. Click "Next" to proceed to the next step.

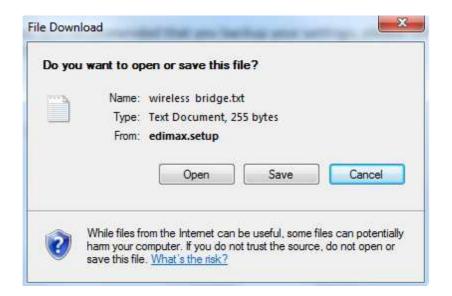
"Obtain an IP address automatically" is the recommended setting for most users. The IP address will be displayed in brackets.

	Obtain an IP add	ress autor	matically	(IP:192.	168.0.100)		
	O Use the following	g IP addre	ss				
	IP address :	192	. 168	. 2	. 3]	
	Subnet Mask :	255	. 255	. 255	. 0]	
	Default gateway :	0].[0	.0	. 0		

8. A summary of your configuration will be displayed, as shown below. Check that all of the details are correct and then click "Next" to proceed.

DİMAX			Wireless Bridg
		s recommended that you click "Next" when you are	backup your settings, please click "Backup this ready to continue.
		IP address :	192.168.0.100
(2.4 GHz)	Wi-Fi network name :	FREE WI-FI
		Wi-Fi password :	12345678
		Backup this confi	guration
		Back	Next

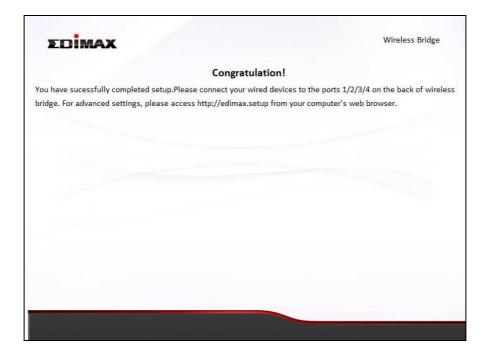
If you wish to backup the BR-6428nS V3/BR-6228nS V3's settings, click "Backup this configuration" to open a new window and save your current configuration to a .txt file.



9. Please wait a moment until the BR-6428nS V3/BR-6228nS V3 is ready.



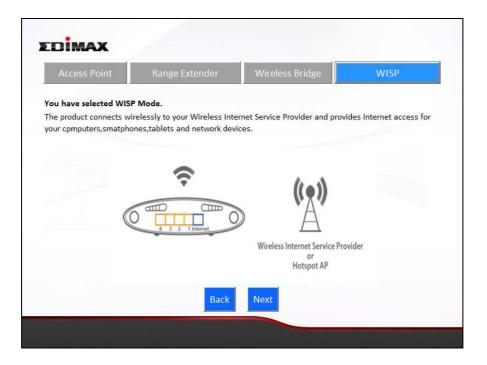
10. A final congratulations screen will indicate that setup is complete. Please close the browser window.



11. The BR-6428nS V3/BR-6228nS V3 is working and ready for use. You can now connect the BR-6428nS V3/BR-6228nS V3 to your network device using an Ethernet cable and connect to your network as usual.

II-5. WISP Mode

1. Select "WISP" from the top menu and click "Next".

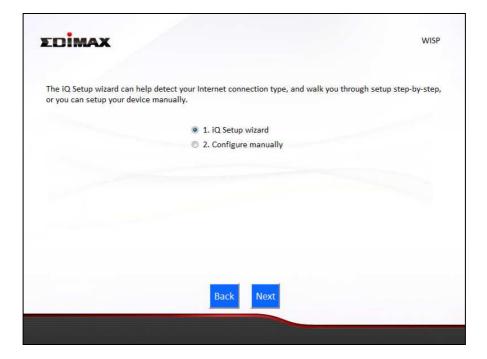


2. Please ensure your BR-6428nS V3/BR-6228nS V3 is within Wi-Fi range of your WISP network and click "Next" to continue.



3. Select whether to use the iQ Setup wizard (recommended) to detect your Internet connection type, or enter the settings manually.

A Manual configuration is only recommended for advanced users.



5. Select the WISP SSID which you wish to connect to and click "Next" to continue.

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

	2.4GHz Wireless Site Survey	
	all available WISP nearby. Please select the not listed, try clicking "Refresh". To connect	
Setup WISP man	ually. SSID	Signal
0	Matt	100%
(C)	FREE WI-FI	100%
O	OBM_68U	100%
Θ	edimax.setup	100%
	EdimaxHQ	100%
0		· · · · · · · · · · · · · · · · · · ·
0		

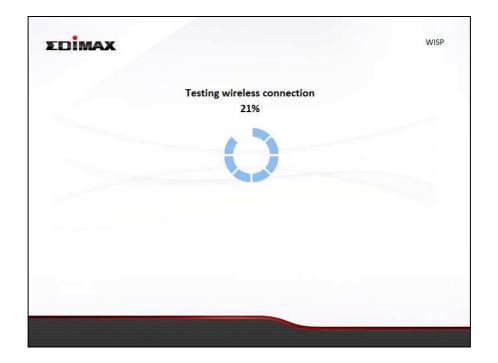
To connect to a hidden SSID, check the "Setup extender manually" box and enter the details manually on the next page, as shown below.

DİMAX		WISP
2.4GH	łz Wireless Site Survey	
Please enther your WISP's Wi-Fi network nam	e and the security key provide from your WI	SP if required.
Wi-Fi network name (SSID):		
Encryption	WPA Pre-shared Key 🔻	
WPA Type	WPA(TKIP) WPA2(AES)	
Key Format	Passphrase 🔻	
Wi-Fi password (Security Key):		
	Back Next	

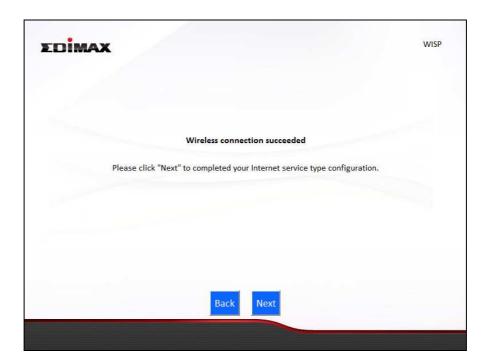
6. Enter your existing wireless network's security key/password in the "Security Key" field and click "Next" to continue.

2	4GHz Wireless Site Survey	
Please enter the required.	e security key provide from your WISP if	
Device SSID	FREE WI-FI	
Security Key		
	Back Next	

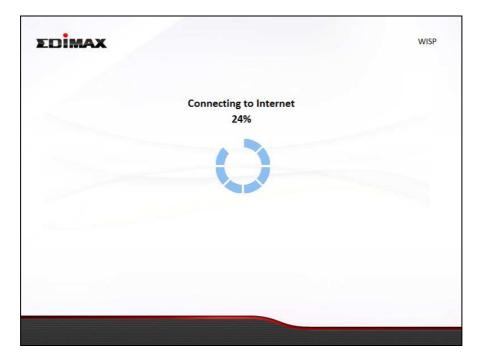
7. Wait a moment while the BR-6428nS V3/BR-6228nS V3 tests the wireless connection.



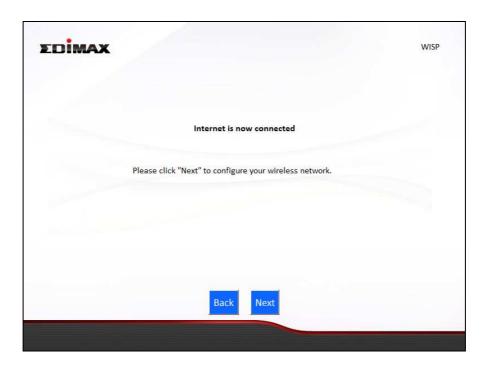
8. Click "Next" to continue your Internet service type configuration.



9. Wait a moment while the BR-6428nS V3/BR-6228nS V3 connects to the Internet.



10. When the Internet is connected, click "Next" to configure your wireless network.



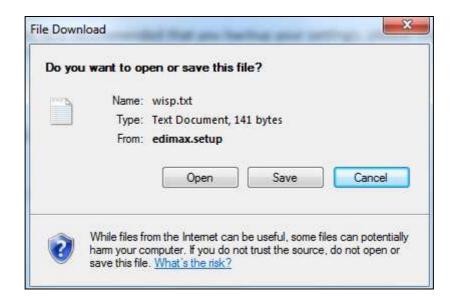
11. Enter a name and password for your 2.4GHz wireless network, then click "Next" to continue.

		WIS
Concession of the local division of the loca		
Please set your Wi-Fi netw	rork name (SSID) and Wi-Fi password.	
Wi-Fi network name (2.4GHz):	edimax_2.4G_8196D1	
Wi-Fi password (WPA2-AES):	abcd1234	
	(at least 8 characters)	
	Back Next	

12. A summary of your configuration will be displayed according to your connection type, as shown below. Check that all of the details are correct and then click "Next" to proceed.

			WIS
	ecommended that you bao k "Next" when you are re	kup your settings, please click "Backup this ady to continue.	
	Internet Type :	PPPoE	
(2.4 GHz)	Wi-Fi network name :	edimax_2.4G_8196D1	
	Wi-Fi password :	abcd1234	
	Backup this conf	iguration	
	Back	Next	

If you wish to backup the device's settings, click "Backup this configuration" to open a new window and save your current configuration to a .txt file.



13. Please wait a moment until the BR-6428nS V3/BR-6228nS V3 is ready.



14. A final congratulations screen will indicate that setup is complete. You can now connect to the device's new SSID(s) which are shown on the screen then close the browser window.

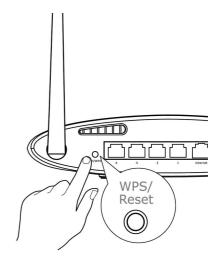
			WISP
	Congratulat	ion!	
You have successfully cor	npleted setup. Please connect to th	ne device's new Wi-Fi network name (S	SID) liste
		setup from your computer's web brows	
(2.4 G	Hz) Wi-Fi network name :	edimax_2.4G_8196D1	
	Wi-Fi password :	abcd1234	

15. The BR-6428nS V3/BR-6228nS V3 is working and ready for use. Refer to IV-2. Connecting to a Wi-Fi network if you require more guidance.

II-6. WPS Setup

If your wireless device supports WPS (Wi-Fi Protected Setup) then you can use this method to connect to the BR-6428nS V3/BR-6228nS V3's Wi-Fi network.

- Press the WPS button on the BR-6428nS V3/BR-6228nS V3 for 2 – 5 seconds to activate WPS. The WLAN LED will flash to indicate that WPS is active.
- 2. Within two minutes, press the WPS button on the wireless device/client to activate its WPS.
- **3.** The devices will establish a connection. Repeat for additional wireless devices.



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

II-7. Reset to Factory Default Settings

If you experience problems with your BR-6428nS V3/BR-6228nS V3, 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 found on the back panel for at least 10 seconds, until the power LED begins to flash.
- **2.** Release the button when the power LED is **flashing**.
- **3.** Wait for the BR-6428nS V3/BR-6228nS V3 to restart. The BR-6428nS V3/BR-6228nS V3 is ready for setup when the power LED displays **on**.

III. Browser Based Configuration Interface

After you have setup the BR-6428nS V3/BR-6228nS V3 as detailed in **II. Installation** or the included **Quick Installation Guide**, you can use the browser based configuration interface to configure advanced settings.



III-1. Login

 To access the browser based configuration interface enter http://edimax.setup into the URL bar of a browser on a network device connected to the same Wi-Fi network as the BR-6428nS V3/BR-6228nS V3.



If you can not access http://edimax.setup, connect the device to a computer using an Ethernet cable and try again.

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" screen. Use the menu down the left side to navigate.

Status				н
Setup Wizard	-System Status			
Internet	Syst	em	1	AN
LAN	Model Current Time	N300 Wi-Fi Router 2014/8/25 20:42:42		192.168.2.1 255.255.255.0
2.4GHz Wireless	Hardware Version	2014/8/25 20.42.42 Rev. A	DHCP Server	
2.4GHZ WIReless	Firmware Version	1.00	MAC Address	00:E0:4C:81:96:C1
Firewall				
QoS	Inte	met	2.4GHz	Wireless
Advanced	IP Address Mode	PPPoE Connect	Mode	AP
- 10 C M	IP Address	118.161.24.157	SSID	edimax_2.4G_8196D1
Administration	Subnet Mask	255.255.255.255	Channel Number	11
	Default Gateway Address	168.95.98.254	Security	
	MAC Address	00:E0:4C:81:96:C9	MAC Address	00:E0:4C:81:96:D1
	DNS 1	168.95.192.1		
	DNS 2	168.95.1.1		
	DNS 3	168.95.1.1		

III-2. Save Settings

1. After you configure any settings, click the "Save Settings" button at the bottom of the screen to save your changes.

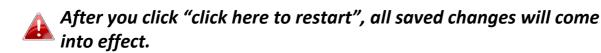


The device needs to restart in order to bring any changes into effect.

2. Then, click "Click here to restart" in order to restart the device and bring the changes into effect.

Settings have been saved. Please click here to restart the router and bring the new settings into effect.

3. To make several changes at once, use the "Save Settings" button after each change and then click "click here to restart" after your final change. Only one restart is necessary as long as each change is saved with the "Save Settings" button.



III-3. Main Menu

The main menu displays different options depending on your device's operating mode.

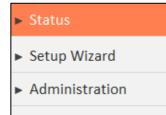


For Range Extender mode: WPS please refer to 2.4GHz Wireless → WPS

Wi-Fi Router

- Status Setup Wizard
- Internet
- LAN
- 2.4GHz Wireless
- ► Firewall
- QoS
- Advance
- Administration

Wireless Bridge



Access Point Status Setup Wizard LAN 2.4GHz Wireless Advance Administration

Range Extender

- Status Setup Wizard
- ► WPS
- Administration

WISP

Status	
 Setup Wizard 	
WISP	
► LAN	
2.4GHz Wireless	
► Firewall	
► QoS	
 Advanced 	
 Administration 	

III-3-1. Status



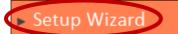
The "Status" page displays basic system information about the device, arranged into four categories:

System, LAN, Internet & 2.4GHz Wireless.

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

Sys	tem	l	AN
Model	N300 Wi-Fi Router	IP Address	192.168.2.1
Current Time	2014/8/25 20:42:18	Subnet Mask	255.255.255.0
Hardware Version	Rev. A	DHCP Server	Enable
Firmware Version	1.00	MAC Address	00:E0:4C:81:96:C1
Inte	rnet	2.4GHz	Wireless
IP Address Mode	PPPoE Connect	Mode	AP
IP Address	118.161.24.157	SSID	edimax_2.4G_8196D:
Subnet Mask	255.255.255.255	Channel Number	11
fault Gateway Address	168.95.98.254	Security	WPA2 (AES)
MAC Address	00:E0:4C:81:96:C9	MAC Address	00:E0:4C:81:96:D1
DNS 1	168.95.192.1		
DNS 2	168.95.1.1		
DNS 3	168.95.1.1		

III-3-2. Setup Wizard



You can run the setup wizard again to reconfigure the basic settings of the device, or you can run a wizard to

help you switch the device to a different operating mode. Select "Setup Wizard" or "Switch to Router/AP/Range Extender/Wireless Bridge/WISP mode" and then click "Run Wizard" to begin.

Setup Wiza	rd
۲	Setup Wizard
	This setup wizard is an intelligent and easy tool for you to complete the basic settings of the device
	quickly.
0	Switch to Router/Access Point/Range Extender/Wireless Bridge/WISP mode
	This setup wizard will guide you to switch the device to another mode.
	Run Wizard

Setup Wizard	This wizard will help you to set up the basic
	functions and settings of the device. For
	guidance about using the setup wizard, please
	refer to <u>II. Installation</u> .
Switch to Router/Access	This wizard will help you to switch the device
Point/ Range Extender/	to a different operating mode: Wi-Fi router
Wireless Bridge/ WISP	mode, access point mode, range extender,
mode	wireless bridge, or WISP mode (see below).

Switch to Router/Access Point/ Range Extender/ Wireless Bridge/ WISP mode:

- **1.** Follow the on-screen instructions to back up your current settings and then reset the device back to its factory default settings.
- **2.** After the device has reset you will see the screen below. Close your browser and open it again.

Reset to Defaults

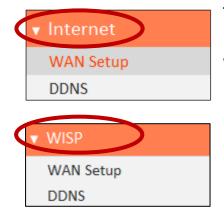
You have successfully reset the device to factory defaults. Please close the browser and open it again. This device will start running the setup wizard for you to switch the mode.

3. Follow the on-screen wizard to setup your device in a different mode. Refer to <u>II. Installation Step 3</u> onwards for help if needed.



If you don't see the "Get Started" screen, try reconnecting to the edimax.setup SSID and go to http://edimax.setup in a web browser.

III-3-3. Internet/WISP



The "Internet" menu provides access to WAN and DDNS settings. Click on an item from the submenu to view and/or configure the settings.

In WISP mode, the screen below will be displayed:

-WISP	
Enable / Disable	O Disable Enable
Basic Settings : SSID Site Survey Channel Number	FREE Wi-Fi 2.4G Select Site List 3
Security Setting : Encryption Security Type Pre-shared Key Format Pre-shared Key	WPA2 TKIP AES Passphrase 12345678 Save Settings

Enable / Disable	Enable or disable your WISP connection.	
SSID	The name of the WISP network which your	
	BR-6428nS V3/BR-6228nS V3 is connected to.	
	Manually enter an SSID if you wish or use	
	"Site Survey" below.	
Site Survey	Select wireless frequency and click "Select	
	Site List" to open a new window and select	
	your WISP network.	
Security Setting	Please refer to III-3-5-1. Basic for a	
	description of security settings.	

III-3-3-1. WAN Setup

Select a Wide Area Network (WAN) connection mode and configure the settings. If you are unsure about your connection type, contact your ISP.

WAN Connection Mode		
	Connection Mode	Dynamic IP 💌
Dynamic IP		Dynamic IP Static IP PPPoE
Dynamie i	Host Name	PPTP L2TP
	MAC Address	Clone MAC



In WISP mode, only Dynamic IP, Static IP & PPPoE are available for WAN Connection Mode.

III-3-3-1-1. Dynamic IP

Select "Dynamic IP". If your Internet service provider assigns IP address automatically using DHCP (Dynamic Host Configuration Protocol).

Dynamic IP	
Dynamic ii	
Host Name	
MAC Address	00000000000000000000000000000000000000
DNS Address	 Obtain an IP address automatically Use the following IP address
DNS1 Address	0.0.0.0
DNS2 Address	0.0.0.0
DNS3 Address	0.0.0.0
DNS Proxy	● Disable ○ Enable
DNS Proxy Rules (URL)	
MTU	1500 (512<= MTU Value <=1500)
πι	Disable Enable
	Save Settings
	Sure Settings

Host Name	Enter the host name of your computer.
MAC Address	For some applications, you may need to
	designate a specific MAC address for the
	router. Please enter the MAC address here. If
	you are connecting the router to a computer,
	press "Clone Mac" to automatically enter
	your computer's MAC address.
DNS Address	Select "Obtain an IP address automatically" or
	"Use the following IP address". Check with
	your ISP if you are unsure.
DNS Address 1,2 & 3	Enter the DNS address(es) assigned by your
	ISP here.
DNS Proxy	Enable or disable a DNS proxy server.
DNS Proxy Rules	When DNS proxy is enabled, enter the URL of
(URL)	a DNS proxy server.
MTU	Enter the maximum transmission unit (MTU)
	value of your network connection. The
	default value is 1500.
TTL	Enable/Disable time to live (TTL) function
	which limits the lifespan of network data to
	improve performance.

III-3-3-1-2. Static IP

Select "Static IP" if your ISP provides Internet access via a fixed IP address. Your ISP will provide you with such information as IP address, subnet mask, gateway address, and DNS address.

Static IP	
Fixed IP IP Address	172.1.1.1
Subnet Mask	255.255.0.0
Default Gateway Address	172.1.1.254
MAC Address	00000000000 Clone MAC
DNS1 Address	0.0.0.0
DNS2 Address	0.0.0.0
DNS3 Address	0.0.0.0
DNS Proxy	Isable Enable
DNS Proxy Rules (URL)	
MTU	1500 (512<= MTU Value <=1500)
πι	• Disable
	Save Settings

Fixed IP Address	Input the IP address assigned by your ISP
	here.
Subnet Mask	Input the subnet mask assigned by your ISP
	here.
Default Gateway	Input the default gateway assigned by your
Address	ISP here. Some ISPs may call this "Default
	Route".
MAC Address	For some applications, you may need to
	designate a specific MAC address for the
	router. Please enter the MAC address here. If
	you are connecting the router to a computer,
	press "Clone Mac" to automatically enter
	your computer's MAC address.
DNS Address 1, 2 &	Enter the DNS address(es) assigned by your
3	ISP here.
DNS Proxy	Enable or disable a DNS proxy server.
DNS Proxy Rules	When DNS proxy is enabled, enter the URL of
(URL)	a DNS proxy server.
TTL	Enable/Disable time to live (TTL) function
	which limits the lifespan of network data to
	improve performance.

III-3-3-1-3. PPPoE

Select "PPPoE" if your ISP is providing you Internet access via PPPoE (Point-to-Point Protocol over Ethernet).

РРРоЕ	
User Name	@wifi.hinet.net
Password	
MAC Address	00000000000000000000000000000000000000
DNS Address	Obtain an IP address automatically Use the following IP address
DNS1 Address	0.0.0.0
DNS2 Address	0.0.0.0
DNS3 Address	0.0.0.0
DNS Proxy	💿 Disable 🔍 Enable
DNS Proxy Rules (URL)	
πι	🖲 Disable 🔘 Enable
Service Name	
MTU	1392 (512<= MTU Value <=1492)
Connection Type	Continuous Connect Disconnect
Idle Time Out	10 (1-1000 minutes)
Enable Dual Wan Access :	
IGMP Source	етн О ррр
	Save Settings

User Name	Enter the user name assigned by your ISP here.
Password	Enter the password assigned by your ISP here.
MAC Address	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press "Clone Mac" to automatically enter your computer's MAC address.

	1
DNS Address	Select "Obtain an IP address automatically" or "Use the following IP address". Check with your ISP if you are unsure.
DNS Address 1, 2 & 3	Enter the DNS address(es) assigned by your ISP here.
DNS Proxy	Enable or disable a DNS proxy server.
DNS Proxy Rules (URL)	When DNS proxy is enabled, enter the URL of a DNS proxy server.
Service Name	Give this Internet service a name (optional).
MTU	Enter the maximum transmission unit (MTU) value of your network connection. The default value is 1392.
Connection Type	 Specify a connection type: "Continuous": Connected all the time. "Connect on Demand": Connect when you initiate an Internet connection. "Manual": Connect/disconnect manually using the "Connect" and "Disconnect" buttons.
Idle Time Out	Specify the amount of time the router waits before shutting down an idle connection. Only available when "Connect on Demand" (above) is selected.
Enable Dual-WAN Access	Enable/disable dual WAN access. When you enable dual WAN access, select an IGMP source and enter a "Host Name" and "MAC Address".

III-3-3-1-4. PPTP

Select "PPTP" if your ISP is providing you Internet access via PPTP (Point-to-Point Tunneling Protocol). Then select "Obtain an IP address automatically" or "Use the following IP address" depending on your ISP.

Dbtain an IP address automatically : Host Name MAC Address 0000000000 Clone MAC
MAC Address 00000000000 Clone MAC
Jse the following IP address :
Static IP Address 0.0.0.0
Subnet Mask 0.0.0.0
Default Gateway Address 0.0.0.0
MAC Address 0000000000 Cione MAC
DNS Address USE the following IP address
DNS1 Address 0.0.0.0
DNS2 Address 0.0.0.0
DNS3 Address 0.0.0.0
DNS Proxy
DNS Proxy Rules (URL)
Settings :
User ID
Password
PPTP Gateway 0.0.0.0
Connection ID (Optional)
MTU 1392 (512<= MTU Value <=1492)
BEZEQ-ISRAEL Enable (for use with BEZEQ network in Israel only)
Connection Type Continuous Connect Disconnect
Idle Time Out 10 (1-1000 minutes)

Host Name	Enter the host name of your computer here If required.
MAC Address	For some applications, you may need to designate a specific MAC address for the router. Please enter

	when "Connect on Demand" (above) is selected.
Idle Time Out	Specify the amount of time the router waits before shutting down an idle connection. Only available
	the "Connect" and "Disconnect" buttons.
	3. "Manual": Connect/disconnect manually using
	initiate an Internet connection.
	 "Connect on Demand": Connect when you
	1. "Continuous": Connected all the time.
Connection Type	Specify a connection type:
Connection Type	network services (Israel users only).
BEZEQ-ISRAEL	Check the "Enable" box if you are using BEZEQ
	1392.
	of your network connection. The default value is
MTU	Enter the maximum transmission unit (MTU) value
Connection ID	Specify a reference name/ID for the connection.
PPTP Gateway	Input the PPTP gateway assigned by your ISP here.
Password	Input the password assigned by your ISP here.
User ID	Input the user name assigned by your ISP here.
(URL)	proxy server.
DNS Proxy Rules	When DNS proxy is enabled, enter the URL of a DNS
DNS Proxy	Enable or disable a DNS proxy server.
	here.
DNS Address 1,2 & 3	Enter the DNS address(es) assigned by your ISP
	are unsure.
	the following IP address". Check with your ISP if you
DNS Address	Select "Obtain an IP address automatically" or "Use
	address.
	MAC" to automatically enter your computer's MAC
	your computer's MAC address here. Click "Clone
MAC Address	If your ISP filters access by MAC addresses, enter
Address	here. Some ISPs may call this "Default Route".
Default Gateway	Input the default gateway assigned by your ISP
Subnet Mask	Input the subnet mask assigned by your ISP here.
Static IP Address	Input the IP address assigned by your ISP here.
	automatically enter your computer's MAC address.
	router to a computer, press "Clone Mac" to
	the MAC address here. If you are connecting the

III-3-3-1-5. L2TP

Select "L2TP" if your ISP is providing you Internet access via L2TP (Layer 2 Tunneling Protocol).

-L2TP	
Obtain an IP address automatically :	
Host Name	
MAC Address	00000000000 Clone MAC
Use the following IP address :	
Static IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway Address	0.0.0.0
MAC Address	00000000000 Clone MAC
DNS Address	 Obtain an IP address automatically Use the following IP address
DNS1 Address	0.0.0.0
DNS2 Address	0.0.0.0
DNS3 Address	0.0.0.0
DNS Proxy	Isable Enable
DNS Proxy Rules (URL)	
L2TP Settings :	
User ID	
Password	
L2TP Gateway	0.0.0.0
MTU	1392 (512<= MTU Value <=1492)
Connection Type	Continuous Connect Disconnect
Idle Time Out	10 (1-1000 minutes)
	Save Settings

Host Name	Enter the host name of your computer here If required.
MAC Address	For some applications, you may need to designate a specific MAC address for the router. Please enter the MAC address here. If you are connecting the router to a computer, press "Clone Mac" to automatically enter your computer's MAC address.

Static IP Address	Input the IP address assigned by your ISP here.
Subnet Mask	Input the subnet mask assigned by your ISP here.
Default Gateway	Input the default gateway assigned by your ISP
Address	here. Some ISPs may call this "Default Route".
MAC Address	If your ISP filters access by MAC addresses, enter
	your computer's MAC address here. Click "Clone
	MAC" to automatically enter your computer's MAC
	address.
DNS Address	Select "Obtain an IP address automatically" or "Use
	the following IP address". Check with your ISP if you
	are unsure.
DNS Address 1,2 & 3	Enter the DNS address(es) assigned by your ISP
	here.
DNS Proxy	Enable or disable a DNS proxy server.
DNS Proxy Rules	When DNS proxy is enabled, enter the URL of a DNS
(URL)	proxy server.
User ID	Input the user name assigned by your ISP here.
Password	Input the password assigned by your ISP here.
L2TP Gateway	Input the L2TP gateway assigned by your ISP here.
Connection ID	Specify a reference name/ID for the connection.
MTU	Enter the maximum transmission unit (MTU) value
	of your network connection. The default value is
	1392.
Connection Type	Specify a connection type:
	1. "Continuous": Connected all the time.
	2. "Connect on Demand": Connect when you
	initiate an Internet connection.
	3. "Manual": Connect/disconnect manually using
	the "Connect" and "Disconnect" buttons.
Idle Time Out	Specify the amount of time the router waits before
	shutting down an idle connection. Only available
	when "Connect on Demand" (above) is selected.

III-3-3-1-6. WISP

Select "WISP" if you use a wireless internet service from Internet Service Provider (WISP).

WISP	
Enable / Disable	
Basic Settings : ESSID Site Survey Channel Number	Select Stie Survey
Security Setting : Encryption	Disable Save Settings

WISP	Enable or disable the WISP function.	
SSID	Enter the SSID of the WISP network, or click	
	"Select Site Survey" below to view all	
	available networks in a new window and	
	select the WISP network from there.	
Select Site Survey	Click "Select Site Survey" to display all	
	available wireless SSIDs in a new window and	
	select your WISP network.	
Channel Number	Enter the channel number of the WISP	
	network.	
Security Settings	Enter the security information required by	
	your ISP.	

III-3-3-2. DDNS

Dynamic DNS (DDNS) is a service which provides a hostname-to-IP service for dynamic IP users. The changing nature of dynamic IPs means that it can be difficult to access a service provided by a dynamic IP user; a DDNS service though can map such dynamic IP addresses to a fixed hostname, for easier access. The router supports several DDNS service providers, for more details and to register for a DDNS account please visit the DDNS providers website(s), examples of which are listed below.

DDNS	
Enable / Disable	© Enable 🖲 Disable
Provider	DynDNS 💌
Domain Name	
Account / E-mail	
Password / Key	
	C C
	Save Settings

Enable/Disable	Enable or disable DDNS	
Provider	Select DDNS service provider.	
Domain Name	Enter the domain name provided by the	
	DDNS provider.	
Account/Email	Please enter the DDNS registration	
	account/email.	
Password/Key	Enter the DDNS service password/key.	

The following DDNS services are supported:

3322	http://www.3322.org
DHS	http://www.dhs.org
DynDNS	http://www.dyndns.org
ODS	http://ods.org
TZO	http://www.tzo.com
GnuDIP	http://gnudip2.sourceforge.net
DyNS	http://www.dyns.cx/
ZoneEdit	http://www.zoneedit.com
CyberGate	http://cybergate.planex.co.jp/ddns/

NS2GO	http://www.ns2go.com/
NO-IP	http://www.noip.com/

III-3-4. LAN



You can configure your Local Area Network (LAN) on this page. You can enable the router to dynamically allocate IP addresses to your LAN clients, and you can

modify the IP address of the device. The device's default IP address is 192.168.2.1.

You can access the browser based configuration interface using the device's IP address instead of using the URL http://edimax.setup.

LAN IP	
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
802.1d Spanning Tree	Disable 🗸
DHCP Server	Enable 🗸
Lease Time	One hour V

IP Address	Specify the IP address here. This IP address	
	will be assigned to the BR-6428nS	
	V3/BR-6228nS V3 and will replace the default	
	IP address.	
Subnet Mask	Specify a subnet mask. The default value is	
	255.255.255.0	
802.1d Spanning	Select "Enable" or "Disable" to enable/disable	
Tree	802.1d Spanning Tree. This creates a tree of	
	connected layer-2 bridges (typically Ethernet	
	switches) within a mesh network, and	
	disables those links that are not part of the	
	tree, leaving a single active path between any	
	two network nodes.	
DHCP Server	Enable or disable the DHCP server.	
Lease Time	Select a lease time for the DHCP leases here.	
	The DHCP client will obtain a new IP address	
	after the period expires.	

Your device's DHCP server automatically assigns IP addresses to computers on its network, between a defined range of numbers.

DHCP Server	
Start IP	192.168.2.100
End IP	192.168.2.200

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.

Your device's DHCP server can be configured to assign static (fixed) IP addresses to specified network devices, identified by their unique MAC address.

Static D	HCP Leas	e Table			
	Only 16 sets of addresses are allowed.				
	NO.	MAC Address IP Address Select		Select	
	1	00:1b:63:cb:4c:b5	192.168.2.110		
			Delet	te Selected	Delete All
	🔽 Enabl	e Static DHCP Leases			
	New	MAC Address	IP Address	Ad	
	New			A	iu -

Enable Static DHCP Leases	Enable/disable static DHCP leases. This must be enabled in order to assign any network device a static IP address.	
MAC Address	Enter the specified network device's MAC address here.	
IP Address	Assign a fixed IP address for the specified network device here.	
Add	Add the information to the "Static DHCP Leases Table".	
Clear	Clear the MAC address and IP address fields.	
Delete Selected / Delete All	Delete selected or all entries from the table.	



The LAN IP page will be displayed as below when your device is set to access point mode. You can set theBR-6428nS V3/BR-6228nS V3 to obtain an IP address automatically or you can specify an IP address.

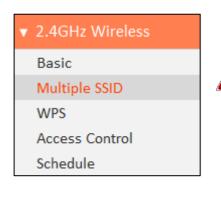
LAN IP		
Obtain	an IP address automatically	
Use the following IP address		
IP Address	192.168.2.1	
Subnet Mask	255.255.255.0	
Default Gateway Address		

III-3-5. 2.4GHz Wireless



The "2.4GHz Wireless" menu allows you to configure SSID and security settings for your Wi-Fi network along with a guest Wi-Fi network. WPS, access control and scheduling functions can also be managed from here.

Access Point Mode:



In Access Point mode, the "Guest" feature in the menu is replaced by "Multiple SSID".

III-3-5-1. Basic

The "Basic" screen displays settings for your primary 2.4GHz Wi-Fi network.

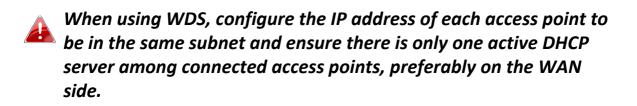
Basic Settings	
Disable Wireless	
Mode	AP
Band	2.4 GHz (b+g+n)
Wireless Network Name (SSID)	edimax_2.4G_EDF2D1
Broadcast SSID	◉ Enable ◎ Disable
	Enable Wireless Clients Isolation
Channel Number	Auto 💌
Site Survey	Select Site List
Wireless Clients	Show List

Disable Wireless	Check the box to disable the wireless function of your device.
Mode	Keep the default "AP" value for the device to act as a standard wireless access point, or

	select "AP Bridge-WDS" for the device to	
	function in WDS mode (see below).	
Band	Displays the wireless standard used for the	
Dana	BR-6428nS V3/BR-6228nS V3's "2.4GHz	
	(B+G+N)" means that 802.11b, 802.11g, and	
	(B+G+N)" means that 802.11b, 802.11g, and 802.11n wireless clients can connect to the	
	802.11n wireless clients can connect to the BR-6428nS V3/BR-6228nS V3.	
Wireless Network	This is the name of your Wi-Fi network for	
	identification, also sometimes referred to as	
Name (SSID)	"SSID". The SSID can consist of any	
	combination of up to 32 alphanumerical characters.	
Broadcast SSID	Enable or disable SSID broadcast. When	
Di Daucast SSID	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	
Enable Wireless	secure than a visible (enabled) SSID. Check the box to enable wireless clients	
Clients Isolation	isolation. This prevents wireless clients	
	connected to the BR-6428nS V3/BR-6228nS	
	V3 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.	
Channel Number	Select a wireless radio channel or use the	
	default "Auto" setting from the drop-down	
	menu.	
Site Survey	Click "Select Site List" to display a new	
Site Survey	window showing information about the	
	surrounding wireless environment. This	
	information is useful to select an effective	
	wireless channel number.	
Wireless 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.	

Mode	AP Bridge-WDS 💌
Band	AP
	AP Bridge-WDS

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



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



MAC Address 1 - 4	Enter the correct MAC address for other	
	access points in WDS mode.	
Set Security	Click "Set Security" to open a new window	
	and enter the security settings for WDS	
	(shown below). Click "Save" when finished.	



Please ensure you setup and save wireless security settings before you click "Set Security" to set WDS security settings.

AP Bridge-WDS Security Setting

Encryption	WPA Pre-shared Key 🔻
WPA Unicast Cipher Suite	WPA2 (AES)
Pre-shared Key Format	Passphrase 🔻
Pre-shared Key	
Save	Close
Wireless Security:	

Wireless Security	
Encryption	WEP
Key Length	64-bit 💌
Key Format	Hex (10 characters)
Encryption Key	•••••••••
Enable 802.1x Authentication	

Select an encryption type from the drop-down menu:

WPA Pre-shared Key" is the recommended and most secure *encryption type.*

In WISP mode, WPA RADIUS is unavailable for the wireless band that is used to connect to WISP's AP.

Wireless Security	
Encryption	Disable
	Disable
Enable 802.1x Authentication	WEP
	WPA Pre-shared Key WPA RADIUS

III-3-5-1-1. Disable

Encryption is disabled and no password/key is required to connect to the BR-6428nS V3/BR-6228nS V3.

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

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 server's information in the relevant	
	fields (below).	

Enable 802.1x Authentication

RADIUS Server IP address	
RADIUS Server Port	1812
RADIUS Server Password	

64

III-3-5-1-2. WEP

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

Wireless Security		
Encryption	WEP 💌	
Key Length	64-bit 💌	
Key Format	Hex (10 characters) 💌	
Encryption Key	•••••	✓ Hide
Enable 802.1x Authentication		

Key Length	Select 64-bit or 128-bit. 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).
Encryption 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 server's information in the relevant fields (below).

Enable 802.1x Authentication

1812	1812	

RADIUS Server IP address

RADIUS Server Port

RADIUS Server Password

III-3-5-1-3. WPA Pre-Shared Key

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

Wireless Security	
Encryption	WPA Pre-shared Key -
WPA Unicast Cipher Suite	● WPA (TKIP) ◎ WPA2 (AES) ◎ WPA2 Mixed
Pre-shared Key Format	Passphrase 💌
Pre-shared Key	☑ Hide

WPA Unicast Cipher Suite Pre-shared Key	Select from WPA (TKIP), WPA2 (AES) or WPA2 Mixed. WPA2 (AES) is safer than WPA (TKIP), but not supported by all wireless clients. 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). Choose from "Passphrase" (8-63
Format	alphanumeric characters) or "Hex" (up to 64 characters from 0-9, a-f and A-F).
Pre-shared 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.

III-3-5-1-4. 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.

Wireless Security	
Encryption	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), but not supported by all wireless clients. 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.

III-3-5-2. Guest/ Multiple SSID

You can setup an additional "Guest" Wi-Fi network so guest users can enjoy Wi-Fi connectivity without accessing your primary network. The "Guest" screen displays settings for your guest Wi-Fi network.

The guest network is separate from your primary network. The settings for your primary network can be found in the "Basic" menu.



In access point mode, the "Guest" feature in the menu is replaced by "Multiple SSID". The BR-6428nS V3/BR-6228nS V3 supports up to four additional SSIDs for each wireless band in access point mode.

Guest Basic Settings	
Enable Guest SSID	
Wireless Guest Name	edimax.1
	Enable Wireless Clients Isolation
Band	2.4 GHz (b+g+n)
Channel Number	Auto 💌 (Same as main SSID)
Guest Wireless Security	
Encryption	Disable
Enable 802.1x Authentication	

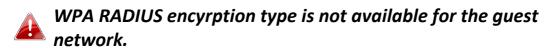


802.1x authentication is unavailable in WISP mode for the wireless band that is used to connect to WISP's AP.

Enable Guest SSID	Check/uncheck the box to enable/disable the	
	guest Wi-Fi network.	
Wireless Guest	Enter a reference/ID name for your guest	
Name	wireless network.	
Enable Wireless	Check the box to enable wireless clients	
Clients Isolation	isolation. This prevents wireless clients	
	connected to the BR-6428nS V3/BR-6228nS V3	
	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 BR-6428nS V3/BR-6228nS V3's frequency band: 2.4GHz (B+G+N): Allows 802.11b, 802.11g, and 802.11n wireless clients to connect to the BR-6428nS V3/BR-6228nS V3.
Channel Number	Channel number for the guest network is the same as the main SSID and cannot be adjusted independently.

Encryption	Please refer to III-3-5-1. Basic: Wireless
	Security for details about security settings.



MULTIPLE SSID:

The BR-6428nS V3/BR-6228nS V3 supports up to four additional SSIDs for each wireless band in access point mode. Once configured, these SSIDs are displayed in the "Multiple SSID Status" table as shown below. Use the "Multiple SSID Basic Settings" box to configure additional SSIDs.

Multiple SSID Status					
NO.	Enable	SSID	VLAN ID	Encryption	MAC Address
1	\checkmark	edimax.1	0	Disable	80:1F:02:ED:F2:D2
2	\checkmark	edimax.2	0	WPA2 (AES)	80:1F:02:ED:F2:D3
3	\checkmark	VLAN	1	WPA2 (AES)	80:1F:02:ED:F2:D4
4		edimax.4	0	Disable	80:1F:02:ED:F2:D5

Multiple SSID Basic Settings	
Multiple SSID	1 (MAC Address : 80:1F:02:ED:F2:D2)
Wireless Network Name (SSID)	edimax.1
	Enable Multiple SSID
	Enable Wireless Clients Isolation
Band	2.4 GHz (b+g+n)
Channel Number	Auto 👻 (Same as main SSID)
VLAN ID	0 (Untagged:0, Tagged:1~4094)

Multiple SSID	Use the drop down menu to select which SSID
	(numbered 1 – 4) to configure.
Wireless Network	Enter a reference/ID name to separate your
Name (SSID)	wireless network.
Enable Multiple	Check/uncheck this box to enable/disable the
SSID	specified SSID. Must be checked for the SSID to
	function.
Enable Wireless	Check the box to enable wireless clients
Clients Isolation	isolation. This prevents wireless clients
	connected to the BR-6428nS V3/BR-6228nS V3
	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
	BR-6428nS V3/BR-6228nS V3's frequency band:
	2.4GHz (B+G+N): Allows 802.11b, 802.11g, and
	802.11n wireless clients to connect to the
	BR-6428nS V3/BR-6228nS V3.
Channel Number	Channel number for the guest network is the
	same as the main SSID and cannot be adjusted
	independently.
VLAN ID	Set a VLAN ID for the specified SSID (see
	below).



A VLAN is a local area network which maps workstations virtually instead of physically and allows you to group together or isolate users from each other. VLAN IDs 1 – 4094 are supported.

III-3-5-3. WPS

Wi-Fi Protected Setup is a simple way to establish connections between WPS compatible devices. WPS can be activated on compatible devices by pushing a WPS button on the device or from within the device's firmware/configuration interface. 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.

5	
Tenable WPS	
Wi-Fi Protected Setup Information :	
WPF Protected Setup Information . WPS Status	Configured
Self Pin Code	91486257
SSID	edimax_2.4G_EDF2D1
Authentication Mode	WPA Pre-shared Key
Authentication Key	abcd1234
Device Configuration :	
Configuration Mode	Registrar
Configure via Push Button	Start PBC
Configure via Client Pin Code	Start PIN

Enable WPS	Check/uncheck this box to enable/disable WPS.			
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.			
SSID	Displays the SSID of the device.			
Authentication Mode	Displays the wireless security authentication mode of the device.			
Authentication 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.			

Button	Click "Start PBC" (Push-Button Configuration) to activate WPS on the access point. WPS will be active for 2 minutes.
Configure via 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-3-5-4. Access Control

Access Control is a security feature that can help to prevent unauthorized users from connecting to your wireless router.

This function allows you to define a list of network devices permitted to connect to the BR-6428nS V3/BR-6228nS V3. Devices are each identified by their unique MAC address. If a device which is not on the list of permitted MAC addresses attempts to connect to the BR-6428nS V3/BR-6228nS V3, it will be denied.

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

Access Control				
Enable Wireless Access Co	ntrol			
MAC Address	>>	Comment	A	ld
MAC Address	Device Name	IP Address	Comment	Select
			Delete Selected	Delete All
	Save Settin	ngs		

MAC address	Select a PC name from the drop-down list and click ">>" to add enter it into the blank field to the right.
	Click "Refresh' in the drop-down menu to refresh the list of available MAC addresses. If the address you wish to add is not listed, enter

	it manually. Enter a MAC address of computer or network			
	device manually 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.			

MAC address entries will be listed in the table as shown below. Select an entry using the "Select" checkbox.

MAC Address	Device Name	IP Address	Comment	Select
00:1b:63:cb:4c:b5	MACBOOK-4729BA	192.168.2.101		
			Delete Selected	Delete All

Delete Selected/	Delete selected or all entries from the table.
Delete All	

III-3-5-5. Schedule

The schedule feature allows you to automate the wireless radio to switch on/off at specified times. Multiple schedules can be configured. Check/uncheck the box "Enable Schedule Settings" to enable/disable the wireless on/off scheduling function.

The BR-6428nS V3/BR-6228nS V3 must remain connected to the Internet and use an NTP server for the schedule feature to function correctly.

Wireless Sche	edule					
☑ Enable Sche	dule Settings					
1. Weekday	🔲 Sunday 🔲 Thursday	🗖 Monday 🔲 Friday	Tuesday Saturda		🗖 Wednesda	iγ
2. Time	Hour 0 💌 Minute	00 🔻				
3. Command	Wireless On 💌					
						Add
	Weel	«day		Time	Command	Select
	Monday,Tuesday,Wedne	esday,Thursday,Friday		01:00	wireless off	
	Monday,Tuesday,Wedne	esday,Thursday,Friday		08:00	wireless on	
				l	Delete Selected	Delete All
		Save Set	ttings			
Sett	ings have been saved. Ple	ease click here to restar	t the router and br	ing the n	ew settings into effect.	

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

- **1.** Use the checkboxes to select which day(s) to include in the schedule.
- **2.** Specify a time (hour and minute) for the schedule using the drop-down menu.
- **3.** Select which command applies to this schedule from the drop-down menu, either "Wireless On" or "Wireless Off".

Add	Add the schedule to the table of active
	schedules.

Active schedules will be displayed in the table as shown below. Select an entry using the "Select" checkbox.

Weekday	Time	Command	Select
Monday, Tuesday, Wednesday, Thursday, Friday	01:00	wireless off	
Monday, Tuesday, Wednesday, Thursday, Friday	08:00	wireless on	
		Delete Selected	Delete All
Save Settings			
Settings have been saved. Please <u>click here to restart</u> the router and l	oring the new	w settings into effect.	

Delete Selected/	Delete selected or all entries from the table.
Delete All	

III-3-6. Firewall



The "Firewall" menu provides access to URL blocking, access control, DMZ and DoS functions to improve the security of your wireless network.

	ne router provides stateful packet inspection (SPI) firewall protection. Only packets matching a known ctive connection will be allowed by the firewall; others will be rejected.
SPI firewall 💿 Enable 🔘 Disable	SPI firewall 💿 Enable 🔘 Disable

SPI firewall	Enable or disable the Stateful Packet
	Inspection (SPI) firewall.

III-3-6-1. URL Blocking

This function can block Internet access by either specific URLs or keywords. Check/uncheck the "Enable URL Blocking" box to enable/disable URL blocking.

URL Blockin	g			
🗵 Enable Uf	RL Blocking			
	URL / Keyword : Add			
NO.	URL / Keyword	Select		
1	www.blockedwebsite.com			
	Delete Sel	ected Delete All		
	Save Settings			
Settings have been saved. Please click here to restart the router and bring the new settings into effect.				