

Your Optus Premium Speed WiFi Cable modem **USER GUIDE**

Full of
handy hints.



P/N 202-10818-02

'yes'
OPTUS

Introduction

Welcome to the exciting world of Optus Broadband and high quality Optus Local Access Telephony. Your new WiFi Cable Modem acts as a cable modem for providing premium speed internet with the ability to also provide your home phone service.

This guide provides procedures for operating and troubleshooting your WiFi Cable Modem.

Please note: This equipment requires power to operate. If you have a telephony service, this is also provided via this equipment, please ensure that the equipment remains powered at all times to ensure uninterrupted service.

Carefully read all safety and operating instructions before operating this product. Retain this guide for future use.

Customer

Username@optusnet.com.au

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Before you begin

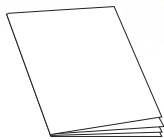
Your WiFi Cable Modem package will contain the following items:



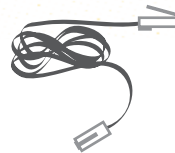
CG 3000 WiFi Cable Modem



Wireless Information Card



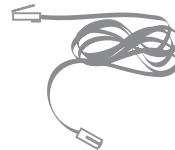
Install Guide



Ethernet Cable



Power Supply



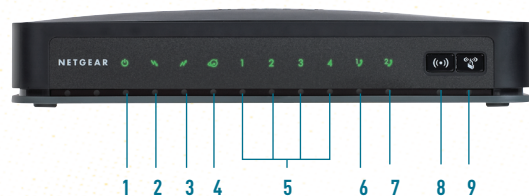
Telephone Cable



Optus CD Rom

Front Panel Description

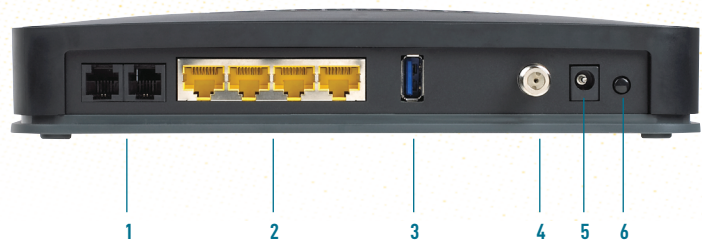
The front panel of your WiFi Cable Modem provides status LED's that indicate how well and what state your WiFi Cable Modem is operating. See below table for more information on front panel LED status indicator functions.



1. POWER	ON , power is applied to the WiFi Cable modem
2. DS	ON , the WiFi Cable modem is receiving data from the cable network
3. US	ON , the WiFi Cable modem is sending data to the cable network
4. INTERNET	ON , the WiFi Cable modem is registered on the network and fully operational
5. LAN 1-4	ON , a device is connected to one of the Ethernet ports BLINKING indicates that data is being transferred over the Ethernet connection
6. TEL2	ON indicates telephony service is enabled. Blinks when line 2 is in use OFF indicates that phone service for TEL 2 is not enabled
7. TEL1	ON indicates telephony service is enabled. Blinks when line 1 is in use OFF indicates that phone service for TEL 1 is not enabled
8. WIRELESS LINK	By default, the wireless modem router is set up to work as a wireless access point. Pressing this button turns the wireless access point feature on and off. You can also do this through the Wireless Settings screen.
9. WPS	You can use the Wi-Fi Protected Setup (WPS) feature with clients on the network that are Wi-Fi certified and WPA capable.

Back Panel Description

The following picture shows the description and function of the back panel components on your modem.



1. TELEPHONE 1 AND 2	RJ-11 telephone ports connect to home telephone wiring to conventional telephones or fax machines
2. LAN	Four RJ-45 Ethernet ports connect to the Ethernet port on your PC or your home network
3. USB	Connects to a printer or mass storage device. This feature is currently disabled. This can only be made active by a remote software upgrade Note: Your service does not support data connections via USB, please connect your computer via the Ethernet port to ensure optimal connection speed.
4. CABLE	F-connector connects to an active cable signal from Optus
5. POWER	Connects your residential gateway to the AC power adapter that is provided with your WiFi Cable modem Caution: Avoid damage to your equipment. Only use the power supply that is provided with your modem
6. ON/OFF SWITCH	Turns the device on or off. It is recommended that the device remains on at all times.

Macintosh Installation

To use your WiFi Cable Modem with a Macintosh computer please ensure your computer is set up to use DHCP (consult your Macintosh user guide for more information) and then connect the Ethernet cable to your Macintosh and the Modem.

When power is applied to the WiFi Cable Modem, the test light turns on for about 15 seconds and then goes off. The Power, Internet and Wireless lights should all be lit.

Wait for the Internet light to turn amber.

Using Push 'N' Connect (WPS) to Configure Your Wireless

Network

If your wireless clients support Wi-Fi Protected Setup (WPS), you can use this feature to configure the router's SSID and security settings and, at the same time, connect the wireless client securely and easily to the router. 1 WPS automatically configures the SSID and wireless security settings for the router (if the router is in its default state) and broadcasts these settings to the wireless client.



NETGEAR's Push 'N' Connect feature is based on the Wi-Fi Protected Setup (WPS) standard. All other Wi-Fi-certified and WPS-capable products should be compatible with NETGEAR products that implement Push 'N' Connect.

If the router has already been configured manually, and either WPS-PSK or WPA2-PSK security has been enabled, a wireless client can be connected quickly and simply by using the WPS method of connecting to the wireless network. In this case, the existing wireless settings are broadcast to the WPS-capable client.



If you choose to use WPS, the only security methods supported are WPA-PSK and WPA2-PSK. WEP security is not supported by WPS.

These instructions assume that you are configuring WPS on the router for the first time and connecting a WPS-capable device.

For a list of other Wi-Fi-certified products available from NETGEAR, go to <http://www.wi-fi.org>.

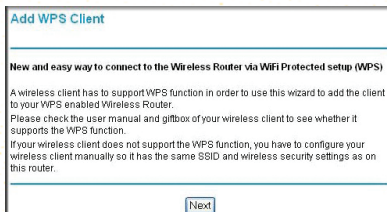
To set up basic wireless connectivity:

1. Log in to the wireless modem router at its default address of <http://192.168.0.1>.
On the router main menu.



You can also enter either of these addresses to connect to your wireless router:
<http://www.routerlogin.net> or
<http://www.routerlogin.com>.

2. On the router main menu, select **Add a WPS Client** (computers that will connect wirelessly to the router are clients). The Add WPS Client wizard screen displays. **Click Next**.



3. Select the method for adding the WPS client. A WPS client can be added using the Push Button method or the PIN method.

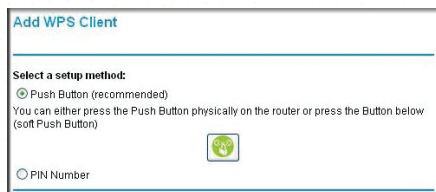
Using the Push Button.

This is the preferred method.

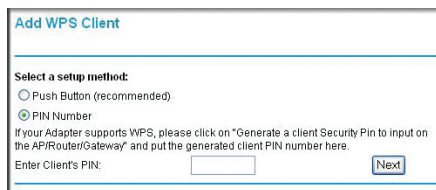
- Select the Push Button radio box and either press the WPS Push Button on the side of the router or click the soft WPS Push Button on the screen (as shown on right).
- The router will attempt to communicate with the client; you have 2 minutes to enable WPS from the client device using the client's WPS networking utility.

Entering a PIN. If you want to use the PIN method, select the PIN radio box. A screen similar to the one shown on the right displays.

- Go to your wireless client and, from obtain the wireless client's security PIN, or follow the client's WPS utility instructions to generate a security PIN.
- Then, enter this PIN in the **Enter Client's PIN** field provided on the router and click Next. You have 4 minutes to enable WPS on the router using this method.



The screenshot shows a web interface titled "Add WPS Client". Under the heading "Select a setup method:", there are two radio button options. The first option, "Push Button (recommended)", is selected with a green dot. Below this text, it says "You can either press the Push Button physically on the router or press the Button below (soft Push Button)". To the right of this text is a green circular icon with a white push button symbol. The second option, "PIN Number", is not selected.



The screenshot shows the same "Add WPS Client" web interface. In this view, the "PIN Number" radio button option is selected with a green dot. Below the options, there is a paragraph of text: "If your Adapter supports WPS, please click on 'Generate a client Security Pin to input on the AP/Router/Gateway' and put the generated client PIN number here." Below this text is a label "Enter Client's PIN:" followed by a text input field. To the right of the input field is a "Next" button.

Using either method, the client wireless device will attempt to detect the WPS signal from the router and establish a wireless connection in the time allotted.

- If no connection is detected, then no SSID or security settings are configured on the router.
- If a connection is established, the router WPS screen displays a message confirming that the wireless client was successfully added to the wireless network. (The router has generated an SSID, implemented WPA/WPA2 wireless security (including a PSK security password) on the router and has sent this configuration to the wireless client.)

4. Note the new SSID and WPA/WPA2 password for the wireless network.

To access the Internet from any computer connected to your wireless modem router, launch a browser such as Microsoft Internet Explorer or Mozilla Firefox. You should see the wireless modem router's Internet LED blink, indicating communication to the ISP.



If you are planning a mixed network of WPS capable devices and non-WPS capable devices, NETGEAR suggests that you set up your wireless network and security settings manually first, and use WPS only for adding additional WPS capable devices.

For more information on setting up your wireless network and configuring your wireless security settings, see the User Manual located online at **help.optuszoo.com.au/help/cable**



If you require Wi-Fi support for your Optus-supplied NETGEAR Wi-Fi ADSL Modem Router and Wi-Fi Adapter, please contact NETGEAR on 1300 361 254.

Using a Non-Netgear wireless adapter or wireless enabled computer

You may already have a computer with wireless capability. You will need to enter your Wireless security information, such as your SSID and WPA passphrase into the Wireless Network Setup utility:

1. Power on your laptop and when Windows has started, go to the Start menu.
2. Click on the **Control Panel** and **Switch to Classic View**.
3. Double-click on the **Wireless Network Setup Wizard** and follow the prompts.
4. Enter the wireless information for your network.

This information can be found on the wireless information card that came with your Optus WiFi Cable Modem, or on the label printed on the base of your WiFi Cable Modem.

Keep me handy
your user information

SSID: _____
PASSPHRASE: _____

For wireless support please contact Netgear on 1300 361 254

NETGEAR
Connect with Innovation

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- Both the **SSID** and **WPA** passphrase are all in uppercase characters.
- The SSID consists of the characters “**OPTUSV**” followed by the last 6 characters of the CM MAC Address. These characters are the letters A-F and the digits 0-9.
- The WPA passphrase consists of three or four 5-character “**words**” followed by a 5 digit random number consisting of the digits 1-9 only.

There is no particular significance to the words used – words have been used rather than random letters to make the passphrase easier to remember and type.

If you would prefer to use a different passphrase, this can be changed on the Wireless Settings page.

For Optus Cable Broadband support in setting up a wired Internet connection from your modem to your computer, please contact Optus on 133 937

Changing your WiFi Cable Modem password

If you wish to change your WiFi Cable Modem password, please follow the steps below:

1. Open your web browser and change the address to **http://192.168.0.1**
2. Enter the default username and password as follows:
Default Username: admin
Default Password: password
3. From the menu on the top click **Administration** and then select the management tab.
4. To change the password, type a new password and retype it in the **Re-Enter New Password** box to confirm it. Then click **Save settings** to have the password changed.
5. Write down your new password and keep it safe. You may want to write it down with the Settings Summary page if you printed it earlier.

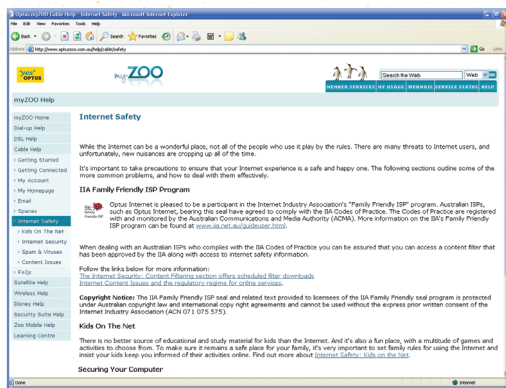
Note: You will need to use this new password to access any of your WiFi Cable Modem's advanced features or to reconfigure your service. If you forget this password you can reset your WiFi Cable Modem by pressing and holding the reset button in for five seconds, this will also delete any other customised settings you have set.



Security

The Internet is your gateway to the world and while security issues shouldn't stop you enjoying your Internet experience, you need to ensure that you take precautions to protect your computer.

optuszoo.com.au/help/cable/safety for more information.



Managing your Optus Cable account

For information on managing your Optus Cable account see **optuszoo.com.au/help/cable/myaccount**

Technical Support Contact Details

For Optus Cable Broadband support in setting up a wired Internet connection from your modem to your computer, please contact Optus on **133 937**.

Frequently Asked Questions

This section provides answers to frequently asked questions regarding your Optus Telephony and Broadband Service.

Q. What if I don't subscribe to a telephony service from Optus, can I still use this WiFi cable modem to make and receive phone calls?

A. No. A Telephone service is enabled for each telephone port on the WiFi cable modem. Please contact Optus on **133 937** or visit your nearest Optus Outlet to arrange installation of your telephone service.

Q. Can I use my existing phone number with the WiFi cable modem?

A. In most cases you should be able to keep your existing phone number. Please contact Optus on **133 937** or visit your nearest Optus Outlet for more information about using an existing telephone number.

Q. Do I automatically receive broadband with the WiFi cable modem?

A. Your device acts as a cable modem and may be used to provide a telephone service, broadband service, or both services. Please contact Optus on **133 937** or visit your nearest Optus Outlet for more information if you are not currently subscribing to Optus Broadband.

Q. How many telephones can I connect?

A. You can connect up to two phone lines with a maximum of two extensions on each phone line. If you have existing phone sockets in the house, we may use these extensions where applicable.

Q. Can I use my Optus Broadband and make telephone calls at the same time?

A. Absolutely! The Telephone service is provided separately from your broadband service. Your broadband service does not affect the quality of your telephone calls. If these services are enabled by Optus, you can make telephone calls and use your Optus broadband at the same time.

