

BiPAC 7800GZ

**3G (HSPA) 802.11g ADSL2+
VPN Firewall Router**

Quick Start Guide

Declaration of Conformity

Konformitätserklärung

in accordance with the Radio and Telecommunications Terminal Equipment Act (FTEG)
and Directive 1999/5/EC (R&TTE Directive)

gemäß dem Gesetz über Funkanlagen und Telekommunikationsendeinrichtungen (FTEG)
und der Richtlinie 1999/5/EG (R&TTE)

The Manufacturer: *Billion Electric Co., Ltd.*

Hersteller:

*8F, No. 192, Sec. 2, Chung Hsing Rd.,
Hsin Tien City, Taipei Hsien*

declares that the product: *BiPAC 7800GZ*

erklärt, dass das Produkt:

*Radio equipment
Funkanlage*

Intended purpose: *3G (HSPA) 802.11g/ ADSL2+ VPN Firewall Router*
Verwendungszweck:

**complies with the essential requirements of §3 and the other relevant provisions of the FTEG
(Article 3 of the R&TTE Directive), when used for its intended purpose.**

bei bestimmungsgemäßer Verwendung den grundlegenden Anforderungen des § 3 und den übrigen
einschlägigen Bestimmungen des FTEG (Artikel 3 der R&TTE) entspricht.

Harmonised standards: Health and Safety requirements contained in §3 (1) 1. (Article 3 (1) a)

Harmonisierte Normen: Gesundheit und Sicherheit gemäß §3 (1) 1. (Artikel 3 (1) a))

EN60950-1:2001+A11:2006, EN 50385: 2002

Harmonised standards: Protection requirements with respect to EMC §3 (1) 2, (Article 3 (1) b))

Harmonisierte Normen: Schutzanforderungen in Bezug auf die EMV §3 (1) 2, Artikel 3 (1) b))

*EN 301 489-1 V1.6.1 2005, EN 301489-17 V1.2.1 2002, EN 55022:2006 (Class B), EN 61000-3-2:
2006, EN 61000-3-3:1995+ A1:2001+ A2:2005, EN 55024:1998+A1:2001+ A2:2003 (IEC 61000-4-
2 : 1995+A1:1998+A2:2000, IEC 61000-4-3 : 2006, IEC 61000-4-4 : 2004, IEC 61000-4-5 : 2005,
IEC 61000-4-6 : 2007, IEC 61000-4-8 : 1993+A1:2000, IEC 61000-4-11 : 2004)*

Harmonised standards: Measures for the efficient use of the radio frequency spectrum

Harmonisierte Normen: Maßnahmen zur effizienten Nutzung des Funkfrequenzspektrums

ETSI EN 300 328 V1.7.1:2006, EN 301511 V9.02 , EN 301908 -1 V2.2.1 :2003,

EN 301908 -2 V3.2.1 :2006

Interface specification: Air interface of the radio systems pursuant to § 3(2) (Article 3(2))

Schnittstellenspezifikation: Luftschnittstelle bei Funkanlagen gemäß § 3(2) (Artikel 3(2))

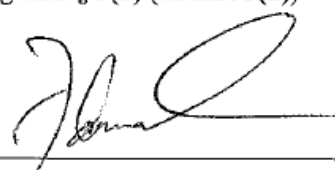
2.412 – 2.472 GHz

K. ANDERSON

(Place)

25 Aug 2009

(Date)



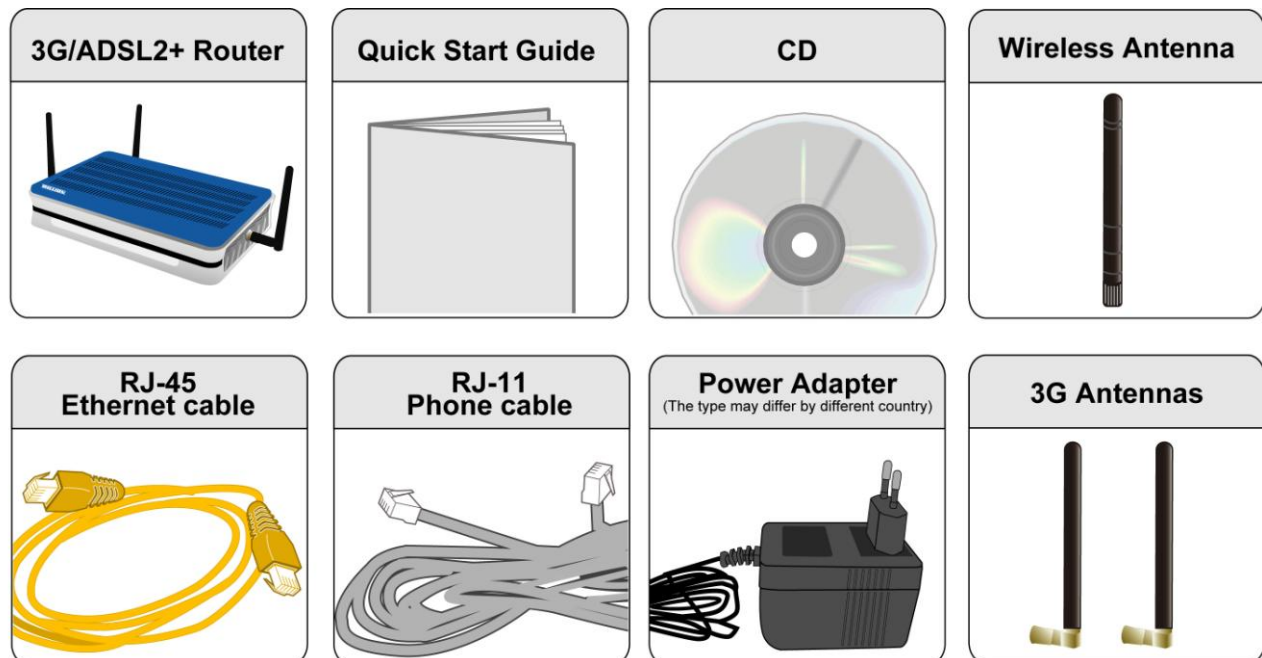
*Edward Kung
Managing Director
Etec Components Ltd.*



PLEASE READ THE QUICK START GUIDE AND FOLLOW THE STEPS CAREFULLY. THIS QUICK START GUIDE WILL HELP YOU INSTALL THE DEVICE PROPERLY AND AVOID IMPROPER USAGE. IF YOU NEED MORE INFORMATION ON THIS SOFTWARE CONFIGURATION, PLEASE REFER TO THE USER MANUAL ON CD-ROM.

Package Contents

- BiPAC 7800GZ 3G (HSPA) 802.11g ADSL2+ VPN Firewall Router
- CD containing the on-line manual
- RJ-11 ADSL/ telephone cable
- Ethernet (RJ-45) cable
- One 2dBi Wireless detachable antenna
- Two 3G antennae
- Power adapter
- This Quick Start Guide
- Splitter/ Micro-filter (Optional)



Warning

- Do not use the router in high humidity or high temperatures.
- Do not use the same power source for the router as other equipment.
- Do not open or repair the case yourself. If the router is too hot, turn off the power immediately and have it repaired at a qualified service center.
- Avoid using this product and all accessories outdoors.

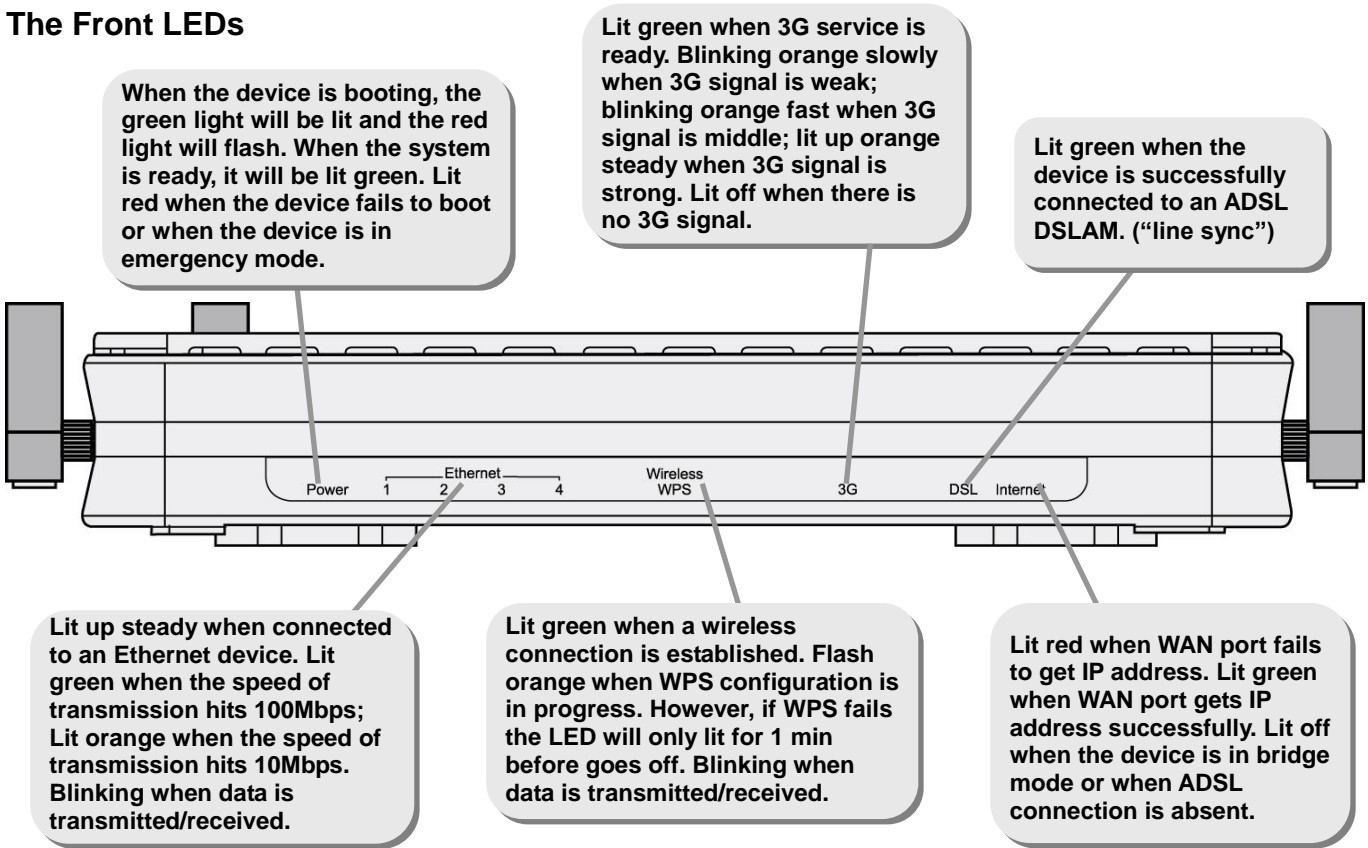


Attention

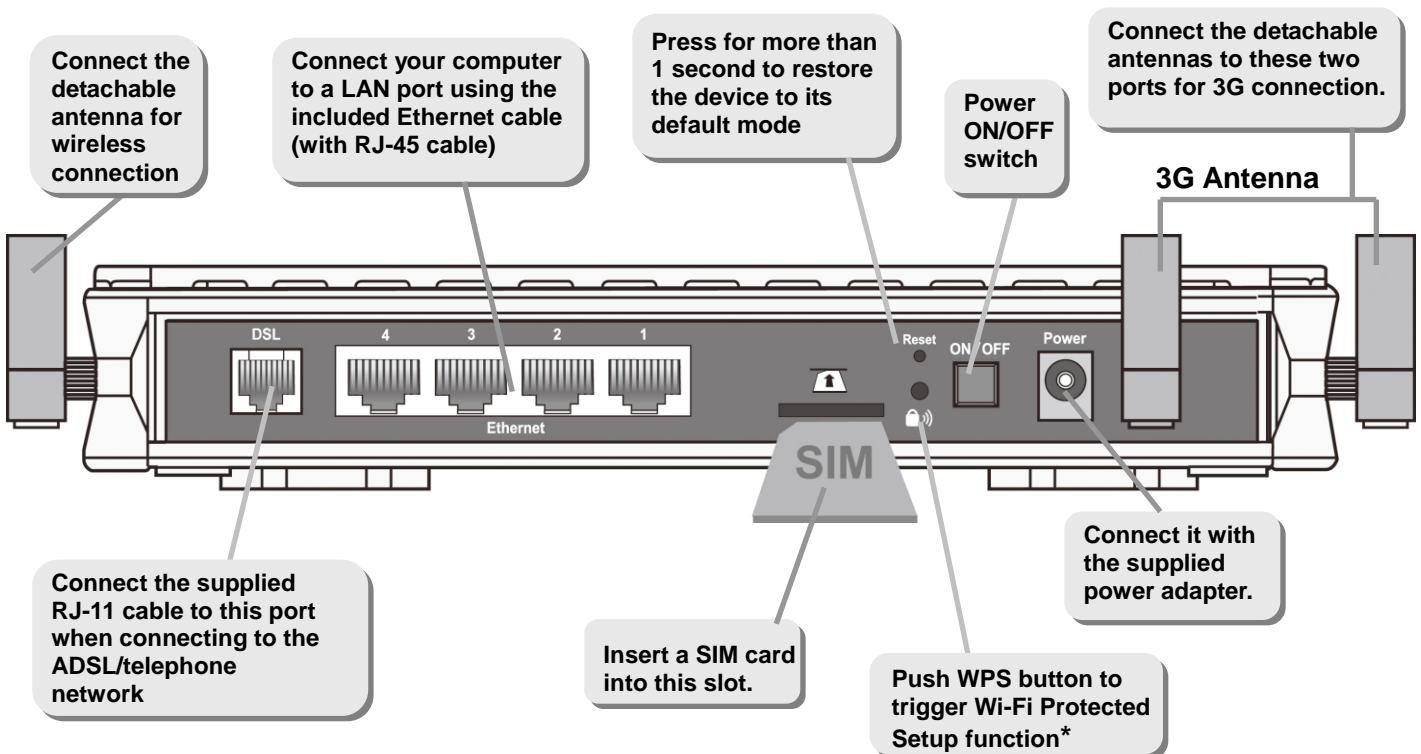
- Place the router on a stable surface.
- Only use the power adapter that comes with the package. Using a different voltage rating power adaptor may damage the router.

Hardware Overview

The Front LEDs



The Rear Ports

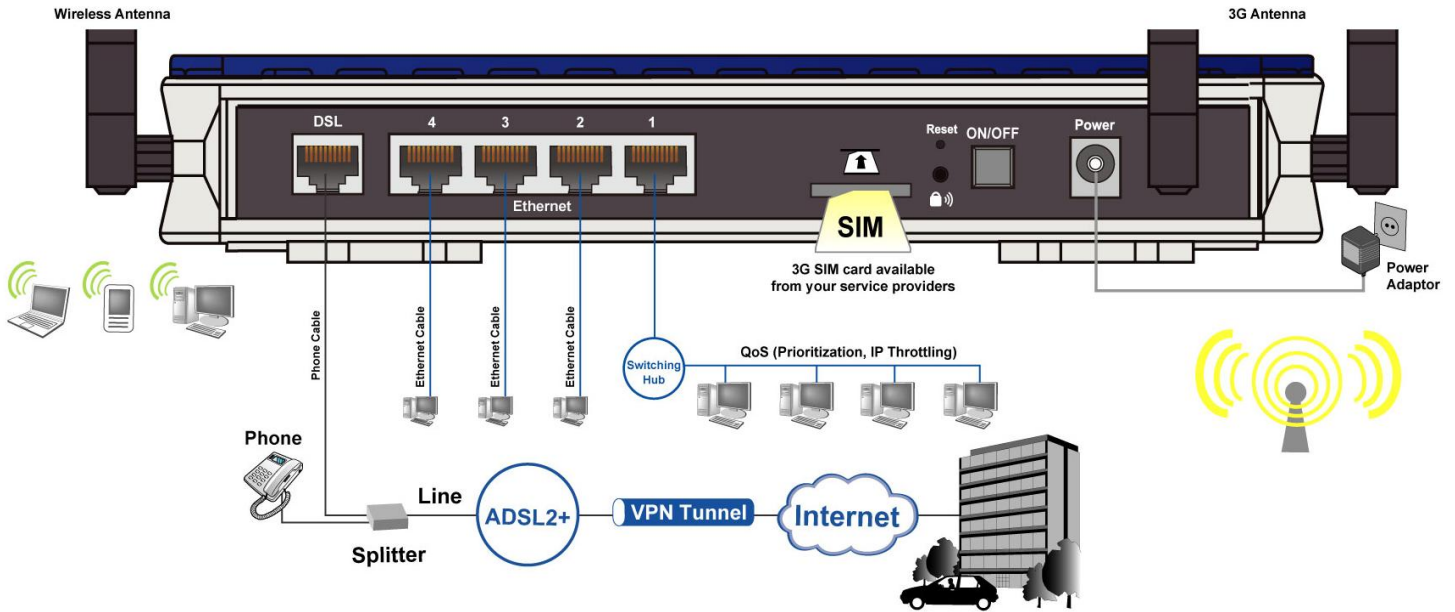


* Note: For WPS configuration, please refer to the WPS section of User Manual.

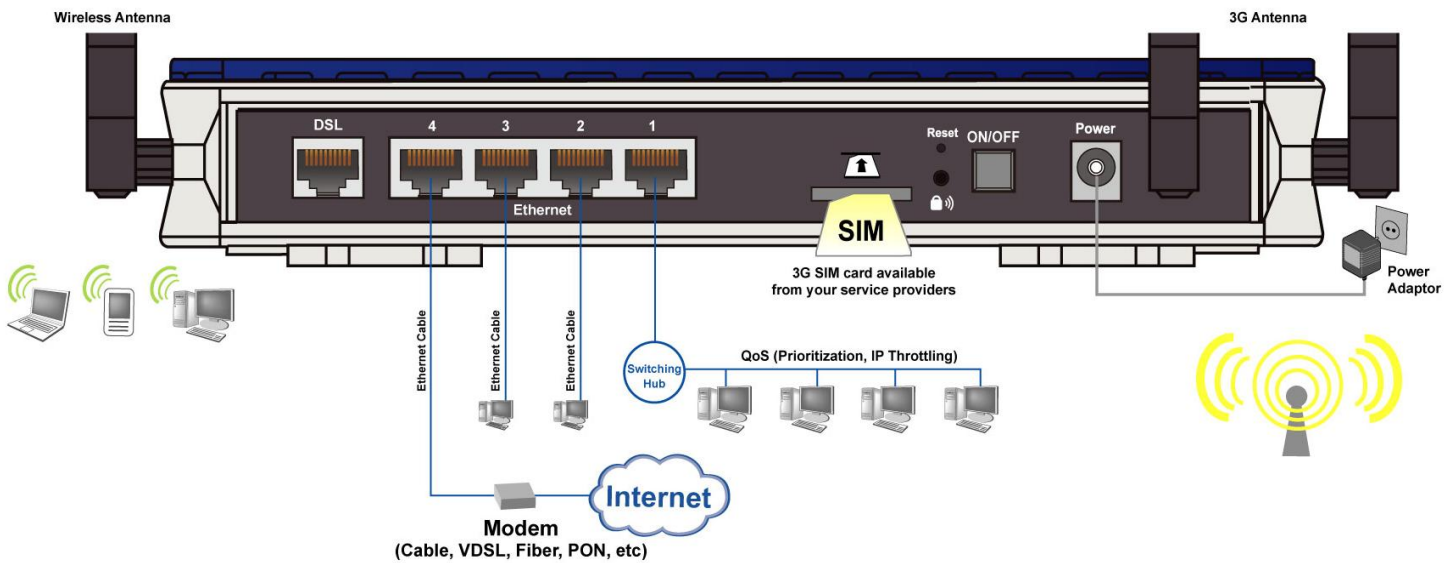
Hardware Connection

BiPAC 7800GZ offers three modes to connect to the internet. Besides using ADSL, users can set EWAN (Ethernet port # 4) or 3G for internet connection. BiPAC 7800GZ also allows Dual WAN connection: ADSL fail-over to 3G, EWAN fail-over to 3G, ADSL fail-over to EWAN, and counter likewise.

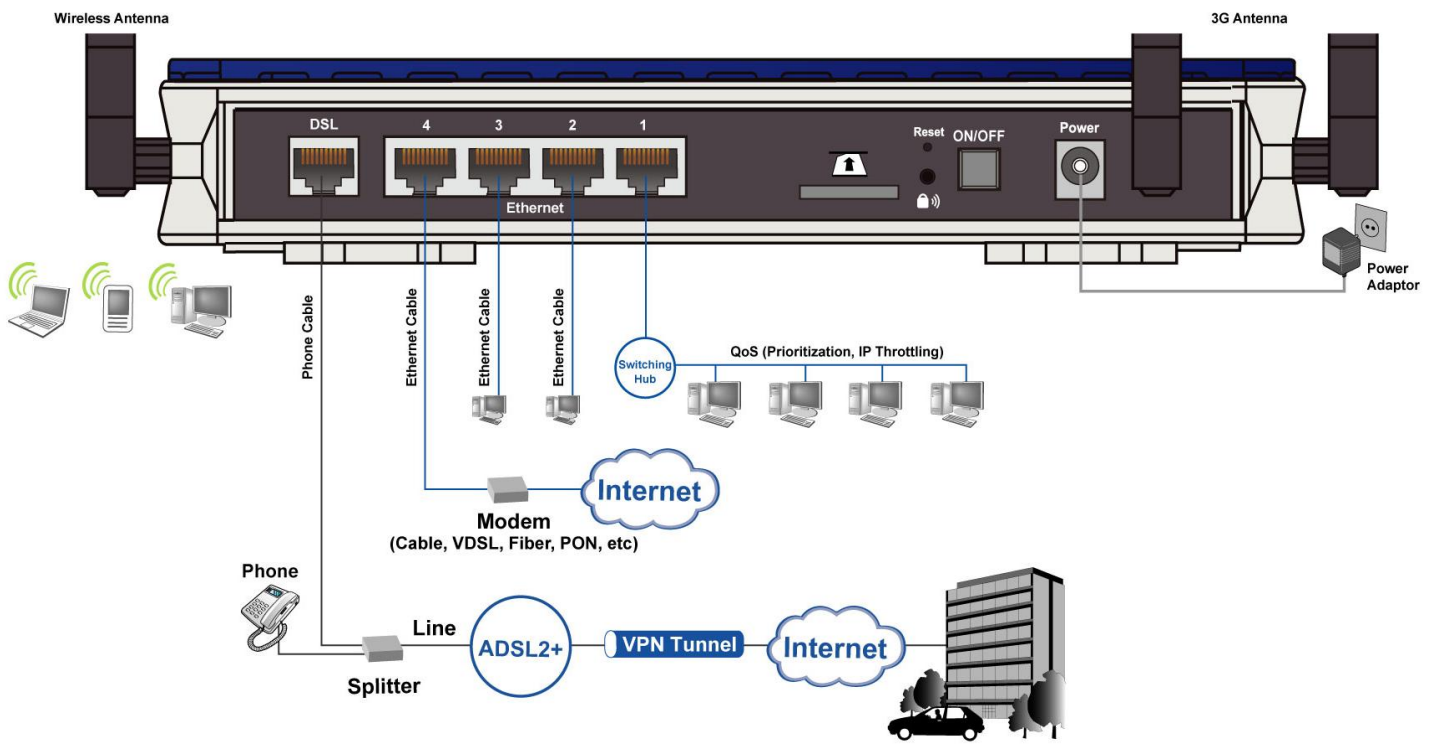
ADSL fail-over to 3G



Broadband (EWAN) fail-over to 3G



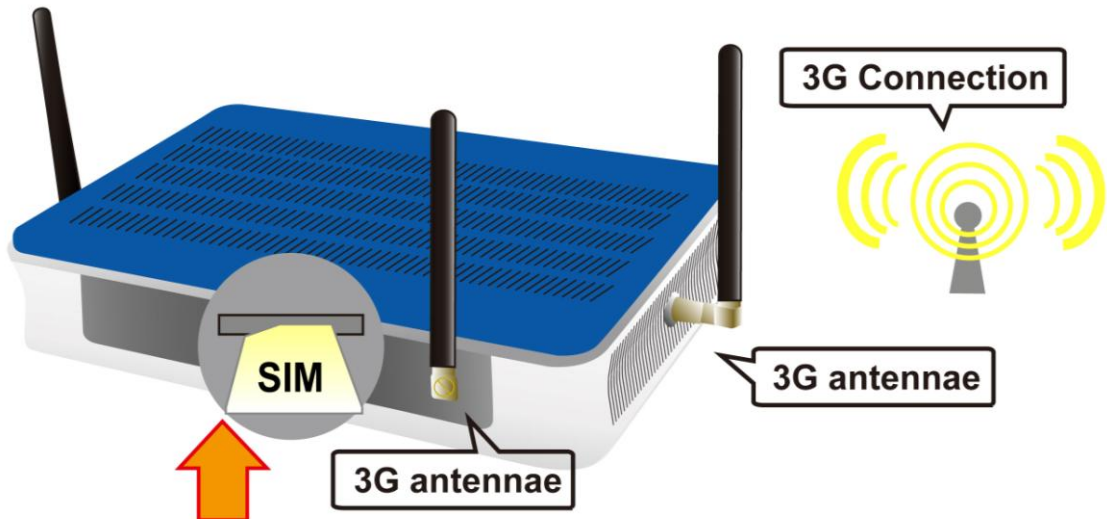
ADSL fail-over to EWAN



Hardware Installation

1. 3G Connection

Slide the SIM card into the card slot of the device with the gold contact facing down. Make sure that the SIM card has been slid into the bottom of the slot with a click. When removing the SIM card, press the SIM card again it will be ejected from the card slot.



Attention

Connect the detachable 3G antennae to the two jacks on the back and right side of device as it shows as above. Making sure they are firmly screwed in.

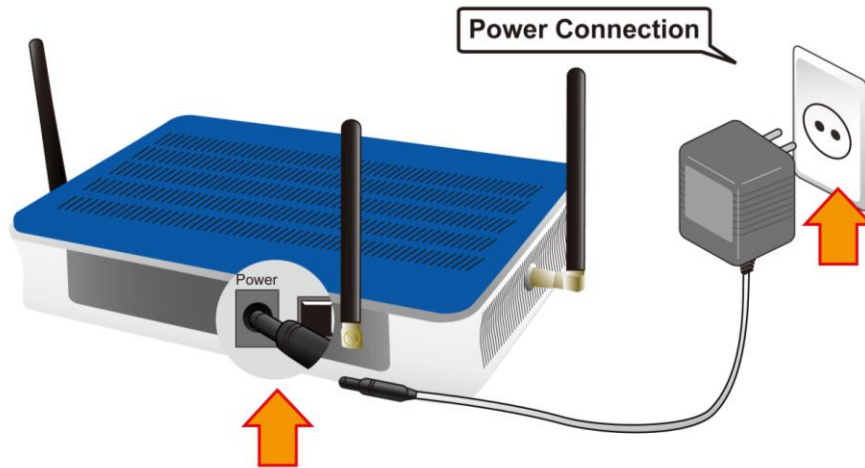


Warning

Before inserting or removing the SIM card, you must disconnect the router from the power adapter.

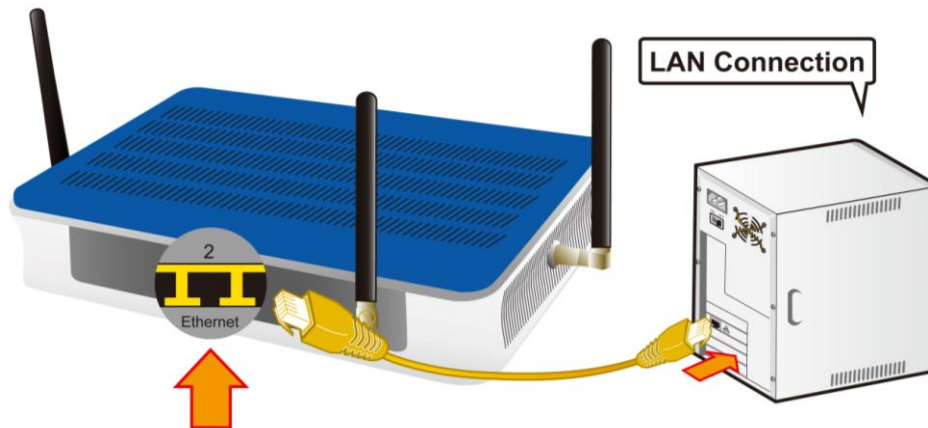
2. Power Connection

Plug the supplied power adapter into the wall jack and the other side to the router. Please note that the plug type may differ according to country. Please make sure when press Power Switch the front LEDs will be lit or off.



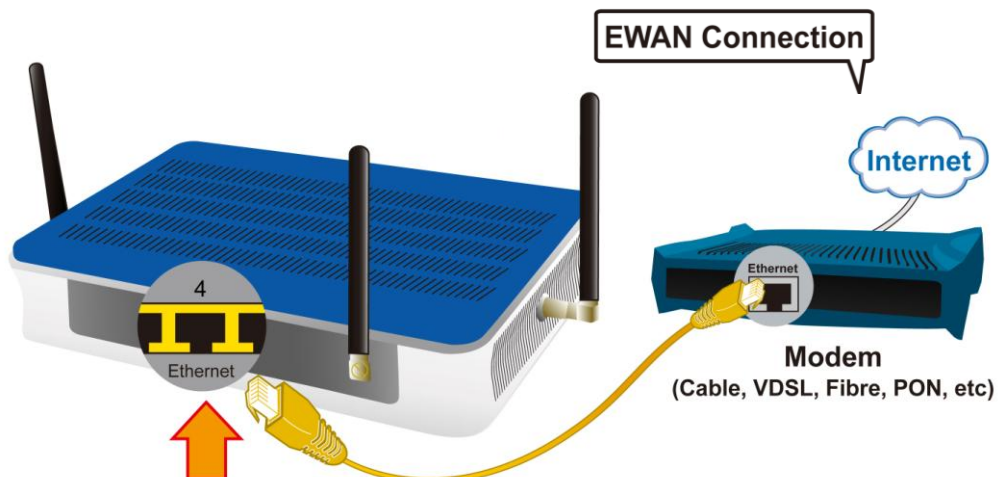
3. LAN Connection

Connect the supplied RJ-45 Ethernet cable to one of the Ethernet ports, and the other side to the PC's Ethernet interface.



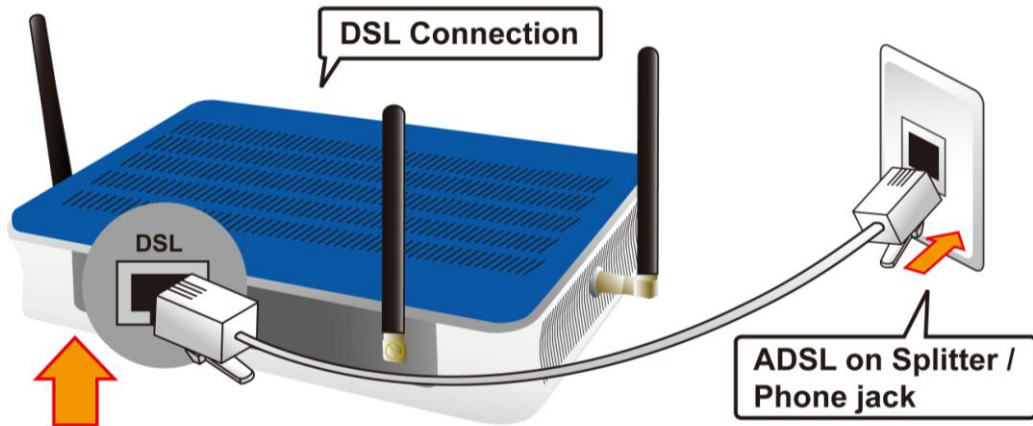
4. EWAN Connection

Connect RJ-45 Ethernet cable to the Ethernet port # 4 (EWAN), and connect the other side to another alternative broadband device, such as Cable Modem, VDSL, Fibre Modem or PON optic lines. Please refer to User Manual for detail instruction.



5. ADSL Connection

Connect the supplied RJ-11 phone cable to the router's ADSL port, and the other side to the phone jack on the wall.

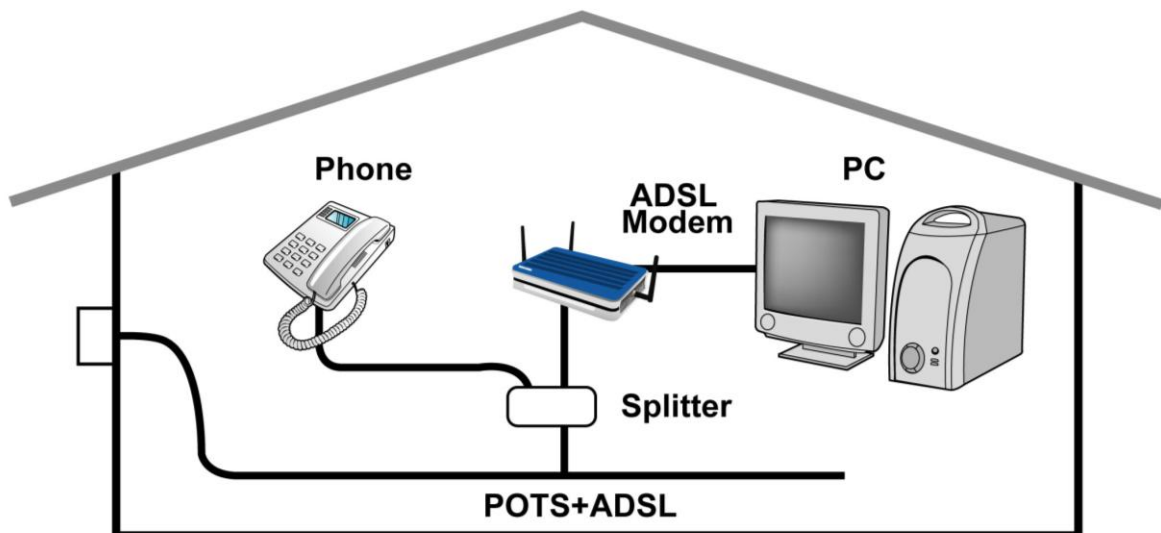


6. Splitter/ Micro-filter Connection

Splitter / Micro-filters are important for ADSL installation, they help ensure that high-frequency signals are directed to the ADSL modem, and low-frequency signals are directed to the telephone or other analog voice-channel device to prevent inter-modulation distortion and get good speeds and stable ADSL sync rate.

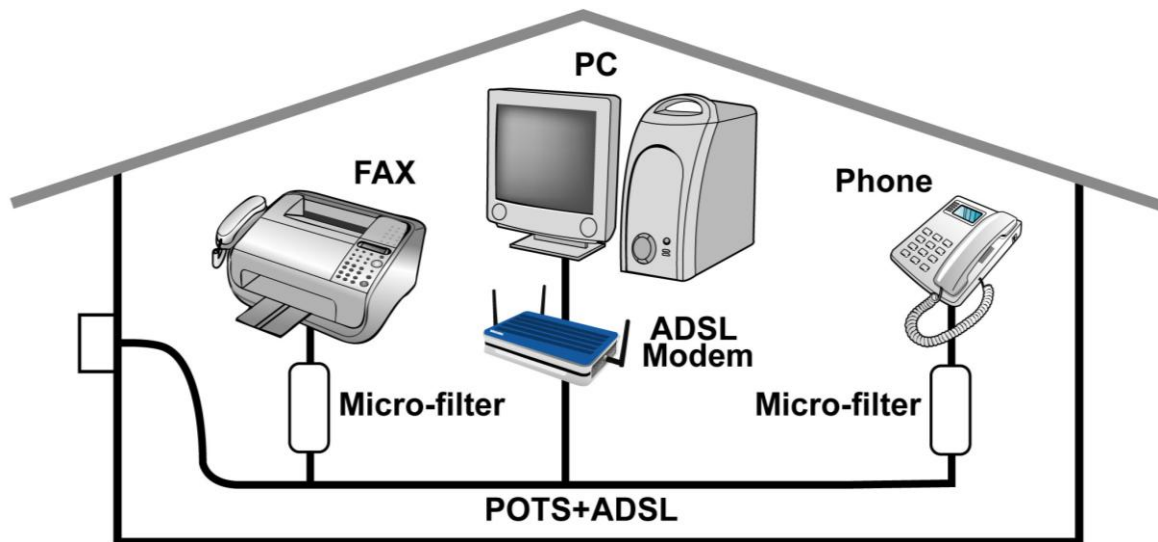
a) Splitter connection

If the installation has only a single telephone and a single ADSL modem, then a splitter can be employed.



b) Micro-filter connection

If the installation has several telephones or other analog devices then an internal micro-filter can be employed at each analog device.



Troubleshooting

1. None of the LEDs are on when you turn on the router.

Check the connection between the adaptor and the router. If the error persists, you may have a hardware problem. In this case you should contact technical support.

2. You have forgotten your router login and/or password.

Try the default login and password, please refer to User Manual. If this fails, you can restore your router to its factory settings by holding the Reset button on the back of your router for 1~2 seconds.

3. Can't ping any PCs on the LAN.

Check the Ethernet LEDs on the front panel. The LED should be on for a port that has a PC connected. If it is off, check the cables between your router and the PC. Make sure you have uninstalled any software firewall for troubleshooting. Verify that the IP address and the subnet mask are consistent between the router and the workstations.

4. Frequent loss of ADSL line sync (disconnections).

Ensure that all other devices connected to the same telephone line as your router (e.g. telephones, fax machines, analogue modems) have a line filter connected between them and the wall socket (unless you are using a Central Splitter or Central Filter installed by a qualified and licensed electrician), and ensure that all line filters are correctly installed and the right way around. Missing line filters or line filters installed the wrong way around can cause problems with your ADSL connection, including causing frequent disconnections. If you have a back-to-base alarm system you should contact your security provider for a technician to make any necessary changes.

5. Either 3G or wireless performance is limited.

Make sure you install the right antennae on the right jacks as mentioned in the package contents, hardware overview and hardware installation. If it remains occur, please refer to User manual or consult your service provider.

Product Support and Contact Information

Most problems can be solved by referring to the **Troubleshooting** section in the User Manual. If you cannot resolve the problem with the **Troubleshooting** chapter, please contact the dealer where you purchased this product.

Contact Billion

Billion Australia - <http://au.billion.com>

Basic Support Hotline - (08) 8132 6868 (Basic Support)

Helpdesk – <http://au.billion.com/helpdesk/> (Lodge a support ticket)

Billion Support Forums – <http://au.billion.com/forums> (Get help & suggestions from Billion & other users)

Download site - <http://au.billion.com/product/fd.php> (Download latest firmware, drivers & User Guides)