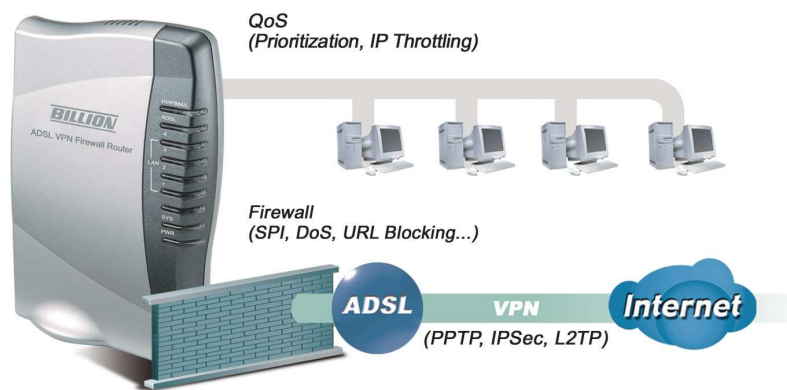




**BIPAC- 7402**

**ADSL Modem/Router**

**Features >>** VPN with 3DES Accelerator,  
QoS (Quality of Service) & 4-  
port Switch!!



**Quick Start Guide**

## IMPORTANT notice from Billion...

This Quick Start Guide (QSG) is to guide user to connect to the Internet in a very short time. Having Internet access will not be far away from this point of time.

This router, Billion 7402, has been customised for New Zealand users. That is, its factory default profile is pre-configured for New Zealand. Hence, less steps in configuring your router.

There are 2 User's Manuals included in the package: (1) Quick Start Guide (this booklet your are reading) (2) Billion 7402 Series ADSL Router Universal User's Manual (File name: **Universal Manual** and it is saved on the CD included in the package). Both manuals should be read in conjunction with each other.

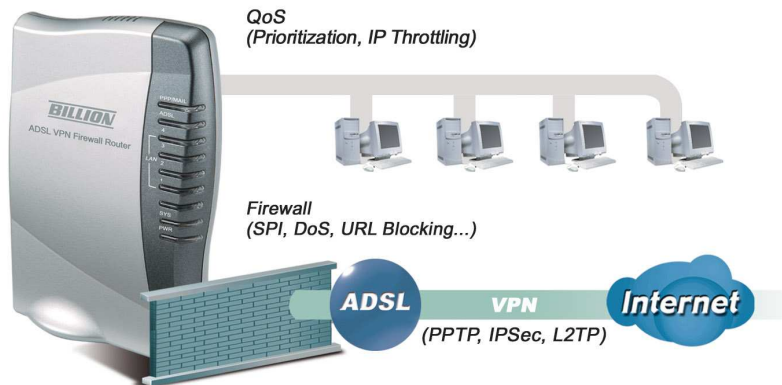
Why read QSG? Because it is designed for New Zealand users whereas the *Billion 7402 ADSL Router Universal Manual* guides international and/or advanced users.

## Package Contents

- Billion 7402 ADSL Modem/Router
- Drivers & Utilities CD
- This Quick Start Guide
- One RJ-11 (A-Type) "ADSL Router-to-ADSL splitter" telephone cable [both ends are of square shape]
- One RJ-11 (B-Type) "ADSL splitter-to-telephone walljack" telephone cable [one end is of square shape only]
- One RJ-45 (CAT-5) straight (standard) LAN cable
- One ADSL line filter/splitter (call "splitter" for short)
- One PS2/RS-232 cable (Console Port cable).
- One DC 12V 1A Power adaptor

## WARNING!

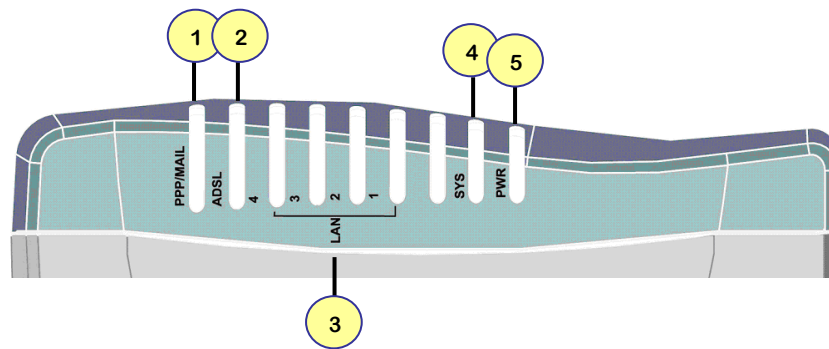
The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.



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**To know about your ADSL Modem/Router...**


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**The Front Panel LEDs of Billion 7402**


LED	Meaning
1 <b>PPP/MAIL</b>	Lit steady when there is a PPPoA / PPPoE connection. Lit and flashed periodically when there is email in the Inbox.
2 <b>ADSL</b>	Lit when successfully connected to an ADSL DSLAM ("linesync").
3 <b>LAN</b>	Lit when connected to an Ethernet device. Green for 100Mbps; Orange for 10Mbps. Blinking when data is Transmitted / Received.
4 <b>SYS</b>	Lit when the system is ready.
5 <b>PWR</b>	Lit when power is ON.

Please follow Billion's

## **READY? & GO! Program**

to complete the setup of the router and enjoy the *high speed* of Internet!!

### **1. READY?**

[Do you have the following installed on your PC?]

- ✓ An Ethernet (LAN)
- ✓ TCP/IP protocol
- ✓ A web browser. E.g. Internet Explorer 5.0 or Netscape 6 or later.
- ✓ Your Internet account details. i.e. username and password supplied by your Internet Service Provider (ISP)

### **2. GO!**

#### **2.1**[Hardware Chapter]

Please check out the Rear Ports of 7402 on next page (page 5) to know what to connect using what kind of cable.

Connect your router to your PC and to other devices using the accessories provided according to the rear ports layout on next page.

## The Rear Ports of 7402

<p><b>LINE</b></p> <p>[RJ-11 A-Type Connector or Modem Line Port]</p>	<p><b>(3.1)</b> Plug in RJ-11-A cable to this LINE port and another end of cable to the MODEM port on the SPLITTER.</p> <p><b>(3.2)</b> Splitter's tail will plug into the walljack.</p> <p><b>(3.3)</b> Plug in RJ-11-B cable to PHONE port on the SPLITTER and another end of cable to any Telephone device. <b>Warning:</b> ALL telephone devices in the residence <b>MUST</b> be connected through splitters.</p>	
<p><b>Console</b></p>	<p>Connect a PS2/RS-232 cable to this port when connecting to a PC's RS-232 port (9-pin serial port).</p>	
<p><b>LAN</b></p> <p>No.1~4 [RJ-45 Connector or Ethernet Port]</p>	<p>Connect the supplied standard cable to this port while another end connects to the LAN port of the PC.</p> <p><i>This LAN port can AUTO-DETECT standard and crossover cables</i></p>	
<p><b>Reset Button</b></p>	<p>Press it if you intend to restore the factory default settings back.</p>	
<p><b>Power Socket</b></p>	<p>Connect the supplied power adapter to this jack.</p>	
<p><b>Power Switch</b></p>	<p>Recommend turn it on AFTER everything is connected properly.</p>	

**2.2[Software Chapter]**

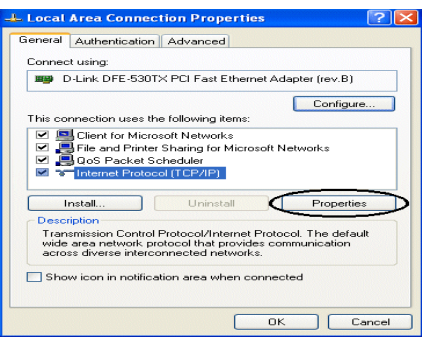
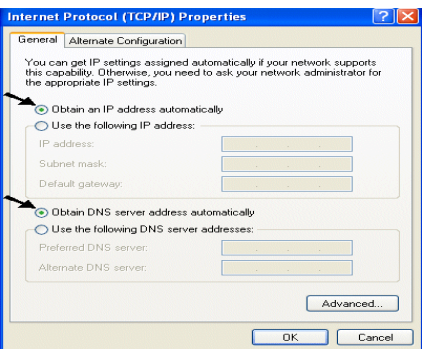
**2.2.1 Connection Mode**

**LAN (Ethernet) port users:**

Please follow the "Configuring the Network Properties on a PC" section (Procedure 2.2.2) on the bottom of this page to modify the network settings.

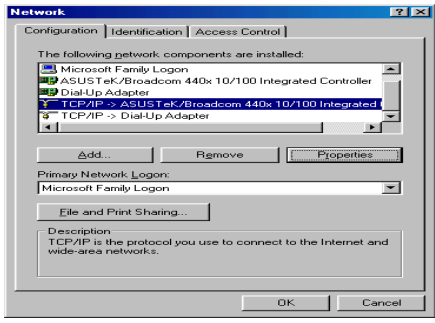
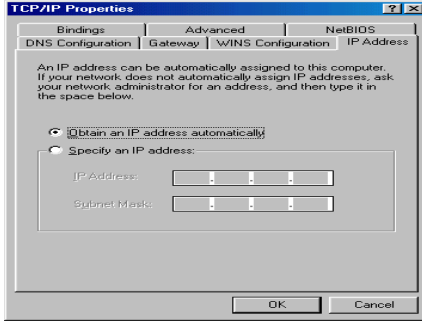
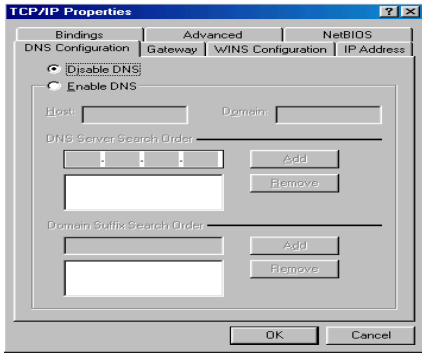
**2.2.2 Configuring the Network Properties on PC**

**Windows XP/2000 users**

<ol style="list-style-type: none"><li>1. Click <b>Start</b> and go to <b>Settings→Control Panel→Network Connections</b>.</li><li>2. Right-click <b>Network Connections</b> icon, choose <b>Properties</b>.</li><li>3. Select <b>Internet Protocol (TCP/IP)</b> and click <b>Properties</b>.</li></ol>	
<ol style="list-style-type: none"><li>4. Select the <b>Obtain an IP address automatically</b> and the <b>Obtain DNS server address automatically</b> radio buttons.</li><li>5. Click <b>OK</b> to finished the configuration.</li></ol>	

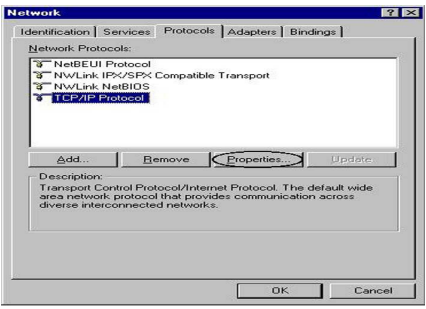
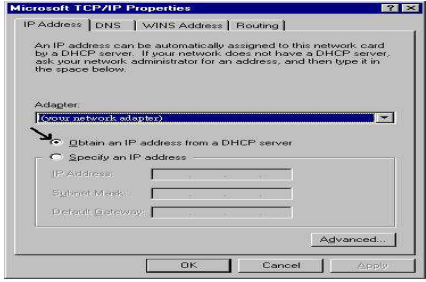
**Please go to Procedure 2.2.3 on page 8 to continue.**

Windows 95/98/Me users

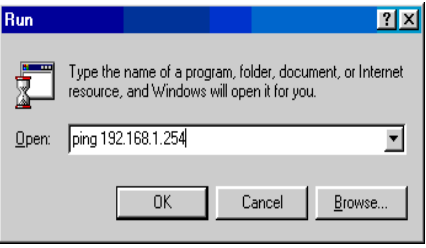
<ol style="list-style-type: none"> <li>1. Click <b>Start</b> and go to <b>Settings→Control Panel→Network</b>.</li> <li>2. Select <b>Internet Protocol (TCP/IP)→[Name of Your Network Card]</b> and Click <b>Properties</b>.</li> </ol>	
<ol style="list-style-type: none"> <li>3. Select the <b>IP Address</b> tab. In this page, click the <b>Obtain an IP address automatically</b> radio button.</li> </ol>	
<ol style="list-style-type: none"> <li>4. Then select the <b>DNS Configuration</b> tab.</li> <li>5. Select the <b>Disable DNS</b> radio button and click <b>OK</b> to finish the configuration then prepare to <b>Restart</b> your computer.</li> </ol>	

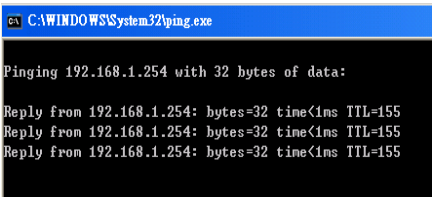
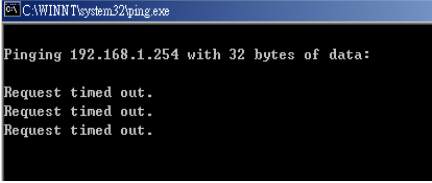


**Windows NT 4.0 users**


<p>1. Click <b>Start</b> and go to <b>Settings→Control Panel→Network</b>.</p> <p>2. Select <b>Internet Protocol (TCP/IP)→[Name of Your Network Card]</b> and Click <b>Properties</b>.</p>	
<p>3. Select the <b>Obtain an IP address from a DHCP server</b> radio button and click <b>OK</b>.</p>	

**2.2.3 Verifying if your PC connects to the Router successfully**  
(This checking is OPTIONAL. Otherwise, go to 2.2.4)

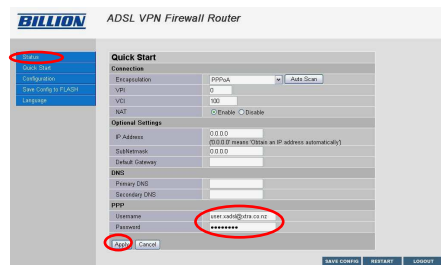
<p>To see if this ADSL Router is visible on the local network, go to <b>Start / Run</b>. In the Run dialog box, type <b>“ping 192.168.1.254”</b> then press <b>OK</b>.</p>	
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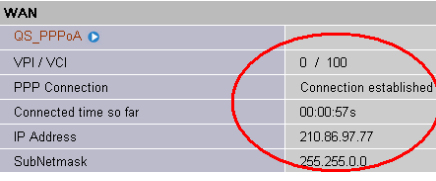
<p><u>Snapshot of a Successful Connection</u></p> <p>A command prompt window will pop out. If your ping is successful which means your local network is able to reach to the device, then the command prompt window will close up automatically.</p>	
<p><u>Snapshot of a Failed Connection</u></p> <p>Connection fails, when you see “<b>Request timed out</b>” in the command prompt window. You may need to check your set up.</p>	

### 2.2.4 Configuring the ADSL Modem/Router

<p>1. Open the web browser and type <a href="http://192.168.1.254">http://192.168.1.254</a> in the browser’s address field and press Enter. This number is the default IP address for this router.</p> <p>Enter the default  <b>User name: admin</b>  <b>Password: admin</b></p> <p>Then press <b>OK</b> to enter the router setup page.</p>	
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2. Click **Quick Start** on the pane at the left-hand-side.
3. Check the Encapsulation is PPPoA and Values of Virtual Circuit ID, VPI & VCI are 0 and 100 respectively. Please refer to the figure on the right-hand-side. (Note: Some ISPs use PPPoE as their encapsulation, if unsure please click **Auto Scan** or check it with your ISP)
4. Enter your Internet Account Details, then click **Next**.  
Other settings (e.g. Optional Settings & DNS) are for advanced users, please do NOT change them.  
**User Name** → MUST fill in  
**Password** → MUST fill in  
**IMPORTANT:** When entering the **User Name**, please ensure user ID followed by a @ symbol followed by the domain name e.g. [user@isp.co.nz](mailto:user@isp.co.nz)  
Note that for the **Xtra Velocity Service** the customer user ID has “.xadsl” appended to it i.e. [user.xadsl@xtra.co.nz](mailto:user.xadsl@xtra.co.nz) Other ISPs may or may not have similar requirements, the user will need to check this with their ISP. Also, the User Name and Password are CASE SENSITIVE!
5. Click **Apply**.



<p>6. A "Successful" message should appear.</p>															
<p>7. Click <b>SAVE CONFIG</b> and then <b>Apply</b> to save settings you have made permanently.</p> <p>A "Save Config to FLASH Successful" message should appear.</p> <p>Note: You could still connect to the Internet without saving config to FLASH, but when the router is being switched off and back on again, you will have to re-enter your Internet account details.</p>															
<p>8. Click <b>F5</b> key to return to the Home Page of Router. And then check the table of WAN and see if the Internet Access is established (i.e. PPP Connection).</p>	 <table border="1"> <thead> <tr> <th colspan="2">WAN</th> </tr> </thead> <tbody> <tr> <td>QS_PPPoA</td> <td></td> </tr> <tr> <td>VPI / VCI</td> <td>0 / 100</td> </tr> <tr> <td>PPP Connection</td> <td>Connection established</td> </tr> <tr> <td>Connected time so far</td> <td>00:00:57s</td> </tr> <tr> <td>IP Address</td> <td>210.86.97.77</td> </tr> <tr> <td>SubNetmask</td> <td>255.255.0.0</td> </tr> </tbody> </table>	WAN		QS_PPPoA		VPI / VCI	0 / 100	PPP Connection	Connection established	Connected time so far	00:00:57s	IP Address	210.86.97.77	SubNetmask	255.255.0.0
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PPP Connection	Connection established														
Connected time so far	00:00:57s														
IP Address	210.86.97.77														
SubNetmask	255.255.0.0														
<p><b>CONGRATULATIONS! YOU ARE DONE!!</b></p>	<p><b>Go and surf the Internet now!</b></p>														

<p><b>Not Connected???</b></p> <p>Click F5 key to return to the Home Page of Router and check the WAN table and see if you have the figure shown on the right-hand-side.</p> <p>You MUST go back to <b>Quick Start</b> and check if you mis-entered your username and/or password (remember, they are case sensitive and no space spam before or after the texts). If all correct and it still shows “Invalid Username or Password”, then please check this with your ISP.</p>	<table border="1"><thead><tr><th colspan="2">WAN</th></tr></thead><tbody><tr><td>QS_PPPOA</td><td></td></tr><tr><td>VPI/VCI</td><td>0 / 100</td></tr><tr><td>PPP Connection</td><td>Incorrect Username or Password</td></tr><tr><td>IP Address</td><td>0.0.0.0</td></tr><tr><td>SubNetmask</td><td>0.0.0.0</td></tr></tbody></table>	WAN		QS_PPPOA		VPI/VCI	0 / 100	PPP Connection	Incorrect Username or Password	IP Address	0.0.0.0	SubNetmask	0.0.0.0
WAN													
QS_PPPOA													
VPI/VCI	0 / 100												
PPP Connection	Incorrect Username or Password												
IP Address	0.0.0.0												
SubNetmask	0.0.0.0												

**3. Product Support and Contact Information**

<p>Most problems can be solved by referring to the <b>Troubleshooting</b> section in the User's Manual. If you cannot resolve the problem with the <b>Troubleshooting</b> chapter, please contact the dealer where you purchased this product.</p>	
For further assistances with the product, please feel free to contact and visit us at:	<a href="http://www.billion.com">http://www.billion.com</a>
New Zealand Customer Technical Support:	<p><b>Mail to:</b> <a href="mailto:helpdesk@morningstar.co.nz">helpdesk@morningstar.co.nz</a></p> <p><b>FREE Phone:</b></p> <p>0800 008 765</p>