



Half Bridge Mode Setup Guide



About Half Bridge Mode

When the PPP Half Bridge is enabled the modem essentially becomes invisible. The WAN IP address from the ISP is passed straight through the modem to the local client PC. Only one PC is able to access the Internet using half bridge mode as NAT is disabled.

Half bridge mode can only be used when a single IP address has been assigned by the ISP, it is not suitable for services that provide multiple IP addresses. Half bridge mode is used when the use of NAT or NAPT is not desired and there is a single computer attached to the modem. When the half-bridged modem is used in conjunction with a router handling DHCP, only then can multiple computers connect to the internet.

Half Bridge Mode Uses

When using a separate firewall to protect your network, half bridge mode will allow the firewall to appear on the internet using the publicly accessible IP address assigned by your ISP. This configuration lets the dedicated firewall/server have full control of the inbound and outbound traffic and is the primary purpose for this mode.

Security Consideration

When NAT is disabled a network server/ computer is more vulnerable to attack from the internet so extra care should be given to security. A dedicated firewall and up-to-date anti virus software should be employed as a basic requirement. Regular operating system security updates should also be applied to all network pcs and servers.



NB6Plus4 Half Bridge Mode Setup

- 1. Navigate to <u>http://192.168.1.1</u> in a web browser.
- 2. Enter 'admin' as both the username and password and click Ok.
- 3. Select Advanced > Internet > Connections.



4. Select the **Edit** icon at the right hand side of the current connection as highlighted above.



- 5. Set the **VPI** and **VCI**. For most Australia ISPs use **VPI**: 8 and **VCI**: 35. For New Zealand ISPs use **VPI**: 0 and **VCI**:100.
- 6. Set the **Service Category** as "UBR without PCR" and press the **Next** button.

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- 7. Leave the Internet connection Protocol as set as either PPPoE or PPPoA, IpoA.
- 8. Enabling **QoS** (Quality of Service) is optional.



9. Press the **Next** Button.



- 10. Set **Obtain an IP address automatically** unless you have been assigned a static WAN (public) IP address by your ISP.
- 11. Untick enable NAT and tick to enable PPP IP Extension.
- 12. Keep Add Default Route enabled. Leave MTU as default.



13. Press the **Next** button.



14. Enter your **PPP** (broadband) **username** and **password** and set **Session established by** to Always On.



15. Press the **Next** button.



 $16. \mbox{ Tick to enable 'Enable this Internet connection'.}$

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17. Press the **Apply** button.



18. Note the question mark under the **PVC name**. This means a reboot is required for the new settings to take effect. Click on **Finish** to apply the new settings.





19. A message will display that the router is rebooting.





- 20. Once the modem reboots to verify the modem is in half bridge mode open a **command prompt** (Start > All Programs > Accessories > Command prompt).
- 21. Type '**ipconfig**' (without quotes) and press enter. The IP address should be a WAN (public) IP address, not the local (private) address such in the 192.168.1.x range.

c. minoomonsystemoziemu.exe



The modem is now in half bridge mode.