

NetComm NB3 My ADSL Modem PPPoE Half Bridge Procedure

Overview:

The outcome of this procedure will place the NB3 into half bridge mode where the NB3 will establish the PPPoE connection with your ISP (Internet Service Provider). The NB3 will then assign the allocated public IP address to a single connected DHCP client Ethernet interface.

The method of connection is commonly used when connecting the NB3 to either of the following

- Another router that doesn't include embedded PPPoE authentication software.
- Linux firewall distributions such as Smoothwall, IPCop etc.
- You simply require NAT (Network Address Translation) to be completely disabled but prefer the NB3 to establish and maintain your DSL connection allowing a connected device / machine to perform routing and fire walling functions.

Instructions:

1. Reset the NB3 to factory defaults by holding the tiny button on the back for 10 seconds whilst the unit is powered.
2. Using a web browser log into NB3's web based configuration ie <http://192.168.1.1> which is the default IP for accessing the NB3 via the ethernet connection.
3. When prompted enter username and password of 'root' and 'root' (defaults) respectively to log into the NB3 configuration.
4. From the **Home** tab select **Quick Configuration** scroll down to the **PPP** section then enter your username and password in the corresponding fields that you have been provided with to connect to your ISP. Keep in mind this is case sensitive then click the **Submit** button on this page.

The screenshot shows the NetComm NB3 web configuration interface. At the top, there are tabs for Home, LAN, WAN, Bridging, Routing, and Services. Below these, there is a breadcrumb trail: Home | System Mode | Quick Configuration. The main content area is divided into sections. The 'PPP' section is highlighted with a red box and contains the following fields: 'Gateway IP Address' (0.0.0.0), 'Username' (netcomm@csp.you), 'Password' (masked with dots), and 'Use DNS' (radio buttons for Enable and Disable). Below the PPP section is the 'DNS' section with 'Primary DNS Server' and 'Secondary DNS Server' fields, both set to 0.0.0.0. At the bottom of the form, there are four buttons: Submit, Delete, Cancel, and Help. The 'Submit' button is highlighted with a red box.

- Once complete select the **System Mode** option from the **Home** tab followed by enabling **ZIPB** (Zero Installation PPPoE Bridge) prior to selecting the **Submit** button.

Home | System Mode | Quick Configuration

System Mode

This page is used to enable/disable various system features.

Feature	Enabled	Disabled
Bridging:	<input checked="" type="radio"/>	<input type="radio"/>
WAN to WAN Bridging:	<input checked="" type="radio"/>	<input type="radio"/>
BRAS:	<input type="radio"/>	<input checked="" type="radio"/>
ZIPB:	<input checked="" type="radio"/>	<input type="radio"/>

Submit Cancel Help

- From the **Services** tab then **IP Filter** and set the **Security Level** to **None**

LAN | WAN | Bridging | Routing | Services | Admin

NAT | RIP | FireWall | **IP Filter** | DNS | Blocked Protocols




IP Filter Configuration

This Page is used to View and Modify IP Filter Global and Rule Configuration.

Security Level: None **Public Default Action:** Accept

Private Default Action: Deny **DMZ Default Action:** Accept

- Move to the **Admin** tab then **Commit and Reboot**, click **Commit** then the **Reboot** buttons and wait approximately 1 minute whilst the NB3 reboots.
- To verify that the NB3 has established an Internet connection simply check that a green circle is present under the **Home** page **Status** column for your **WAN Interface**.

WAN Interfaces							
Interface	Encapsulation	IP Address	Mask	Gateway	Lower Interface	VPI/VCI	Status
ppp-0	PPPoE	220.240.1.131	255.255.255.255	203.194.30.200	aal5-0	8/35	
LAN Interface							
Interface	Mac Address	IP Address	Mask	Lower Interface	Speed	Duplex	Status
eth-0	00:85:A0:01:01:00	192.168.1.1	255.255.255.0	-	100BT	Full	
usb-0	-	192.168.1.2	255.255.255.0	-	-	-	

- Once your Internet connection is established the NB3 should now pass the assigned public IP address to a solely connected DHCP client Ethernet interface.

In some instances you may need to renew / repair the DHCP connection in order for the connected interface to pickup your public address.

Note: As NAT will be disabled in this mode it is recommended to enable another form of fire walling whether it be hardware or software based behind the NB3. This should help prevent any damage from external Internet attacks.