# **Configuring Billion Modem for SpinTel NBN**

### How do you know if your Billion modem is compatible with nbn?

There are 2 different types of ports you need to check whether your modem is compatible with the type of nbn service that you have on your premise.

**1. DSL port** - often grey in colour, uses RJ11 cable. This is the same as the old telephone cable you would use to plug your home phone into the wall socket.



2. WAN port - Also known as the internet port that uses RJ-45 Ethernet cable to connect your Billion modem to the nbn connection device.



Some modems have both of these ports, and some only have one. To identify which port is required for your nbn type of service, check the table below.

NBN type	Modem connection type	Authentication
Fibre to the Premise	Router/WAN connection	IPOE/Dynamic/DHCI
Fixed Wireless	Router/WAN connection	IPOE/Dynamic/DHCI
Hybrid Fibre Coaxial	Router/WAN connection	IPOE/Dynamic/DHCI

Fibre to the Curb	Router/WAN connection	IPOE/Dynamic/DHCI
Fibre to the Node	VDSL Modem required	IPOE/Dynamic/DHCI
Fibre to the Basement	VDSL Modem required	IPOE/Dynamic/DHCI

# How Do You Set up Your Billion Modem?

- 1. If there is **no NBN Connection Box** installed, connect the DSL port on the back of your Billion modem to your phone wall socket using a phone cable.
- 2. If **there is an NBN Connection Box** installed, connect to the WAN/Internet port on the back of your modem to your NBN Connection Box.
- 3. Connect any of the LAN ports on the back of your modem to your PC (optional)
- 4. Plug the NBN connection box, if there's any, to the power socket
- 5. Connect the power port on the back of your modem to your power socket.
- 6. Ensure the modem is not locked to a specific provider. If it is, contact your provider to unlock it or use an unlocked modem.
- 7. Perform a factory reset on the modem if needed. Reconnect your devices using the default login credentials, which are typically found on the modem label.
- 8. Open a web browser and enter the modem's default IP address to configure the modem for IPoE set-up.

## How Do You Log Into Your Billion Modem?

To access modem gateway, enter <u>http://192.168.1.254</u> in the address bar of a web browser. If the IP address does not work or if it has been changed, check your router's IP address. For instructions, click <u>here</u>.

Windows Security	×
The server 192.168.1.254 is asking for your user name and password. The server reports that it is from BiPAC 8700NEXL R2. Warning: Your user name and password will be sent using basic authentication on a connection that isn't secure.	:
User name   Password   Remember my credentials	
OK Cancel	

Enter **admin** for both the username and password and click **OK** to login.

If you have changed the login credentials, please enter the current username and password for your modem interface.

Once you have logged on to your Billion Router via your web browser, you can begin to set it up according to your requirements. Follow the steps below to update your ISP credentials.

1. Go to **Configuration** and select **WAN** 



2. If your modem has any existing profiles configured, make sure to remove them to avoid double authentication or connection issues, then click **Add** to create a new WAN service

WAN Ser	rvice							
ATM Inter	face							
3G/4G LTE	Interface							
					A1.4T	C.L.		
Interface	Description	TEL No.	APN	Username	NAL	Firewall	Dial on demand	Edit

3. Select the relevant settings depending on your NBN connection type.

#### For FTTP, FTTC, HFC, and FW

#### WAN Port: Ethernet

#### Type: IP over Ethernet

Configuration			
▼WAN Service			
Parameters			
WAN Port	Ethernet 🗸		
Туре	IP over Ethernet		
Description			
802.1P Priority	-1 [tagged: 0-7; untagged: -1]	802.1Q VLAN ID	-1 [tagged: 0-4094; untagged: -1]
Obtain an IP address automatically	✓ Enable		
Option 60 Vendor ID			
Option 61 Client ID			
Option 125	⊙ Disable ○ Enable		
WAN IP Address			
WAN Subnet Mask			
WAN gateway IP Address			
IPv6 for this service	Enable		
Obtain an IPv6 address automatically	✓ Enable		
WAN IPv6 Address/Prefix Length			
WAN Next-Hop IPv6 Address			
NAT	Enable	Fullcone NAT	Enable
Firewall	Enable		
IGMP Multicast Proxy	Enable	IGMP Multicast Source	Enable
No Multicast VLAN Filter	Enable		
MLD Multicast Proxy	Enable	MLD Multicast Source	Enable
MTU	1500	MAC Spoofing	
Next			

#### For FTTN/FTTB

WAN Port: DSL

Layer2 Interface: PTM

Type: IP over Ethernet

Configuration			
▼WAN Service			
Parameters			
WAN Port	DSL 💌		
Layer2 Interface	OATM <sup>©</sup> PTM		
Туре	IP over Ethernet		
VPI / VCI	0 [0-255] / 35 [32-65535]	Encapsulation Mode	LLC/SNAP-BRIDGING
Description			
802.1P Priority	-1 [tagged: 0-7; untagged: -1]	802.1Q VLAN ID	-1 [tagged: 0-4094; untagged: -1]
Obtain an IP address automatically	✓ Enable		
Option 60 Vendor ID			
Option 61 Client ID			
Option 125	Disable      Denable		
WAN IP Address			
WAN Subnet Mask			
WAN gateway IP Address			
IPv6 for this service	✓ Enable		
Obtain an IPv6 address automatically	Enable		
WAN IPv6 Address/Prefix Length			
WAN Next-Hop IPv6 Address			
NAT	✓ Enable	Fullcone NAT	Enable
Firewall	Enable		
GMP Multicast Proxy	Enable	IGMP Multicast Source	Enable
No Multicast VLAN Filter	Enable		
MLD Multicast Proxy	Enable	MLD Multicast Source	Enable
MTU	1500	MAC Spoofing	

4. Leave the other settings to their default values and click **Next** to proceed to configure the wireless settings.

5. Once done, click **Continue** to apply. A success page will appear, and you're all set!

Wait 3-5 minutes for the modem to go online, then test the service. Reboot the modem if needed.

Online URL: <u>https://articles.spintel.net.au/article/configuring-billion-modem-for-spintel-nbn.html</u>