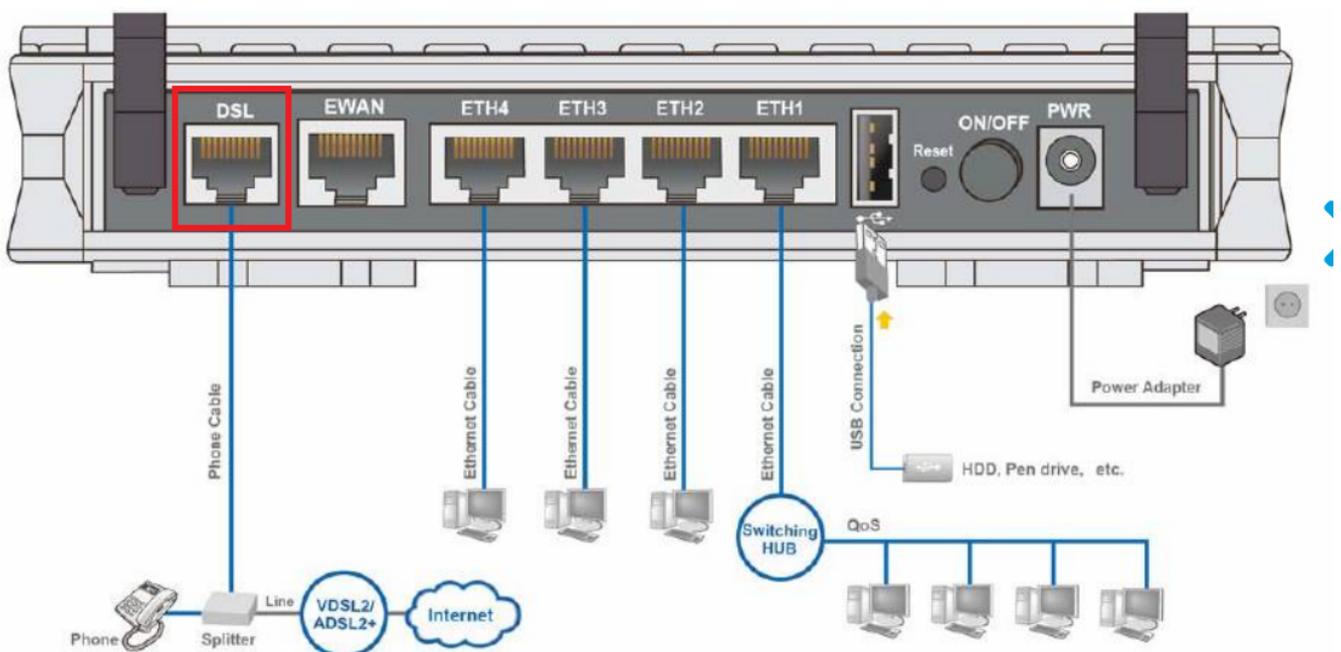


Configuring Billion Modem for SpinTel NBN

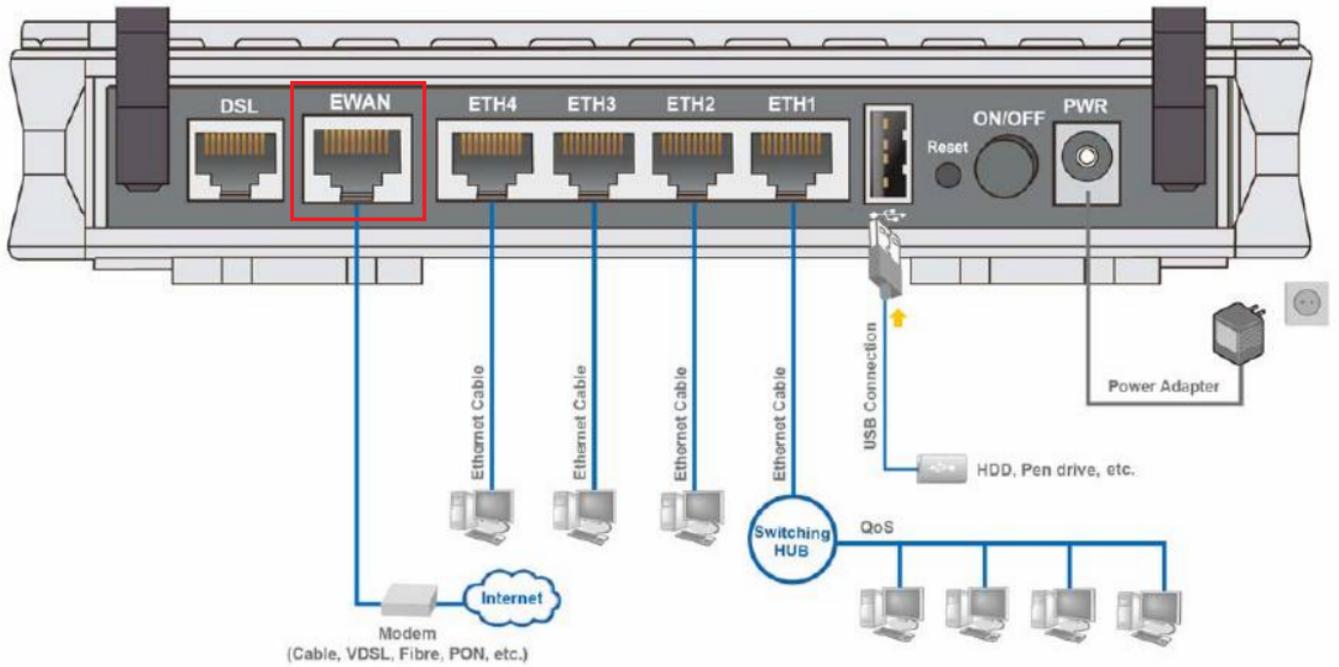
How do you know if your Billion modem is compatible with nbn?

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/DHCP
Fixed Wireless	Router/WAN connection	IPOE/Dynamic/DHCP
Hybrid Fibre Coaxial	Router/WAN connection	IPOE/Dynamic/DHCP

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

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 <http://192.168.1.254> 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 [here](#).

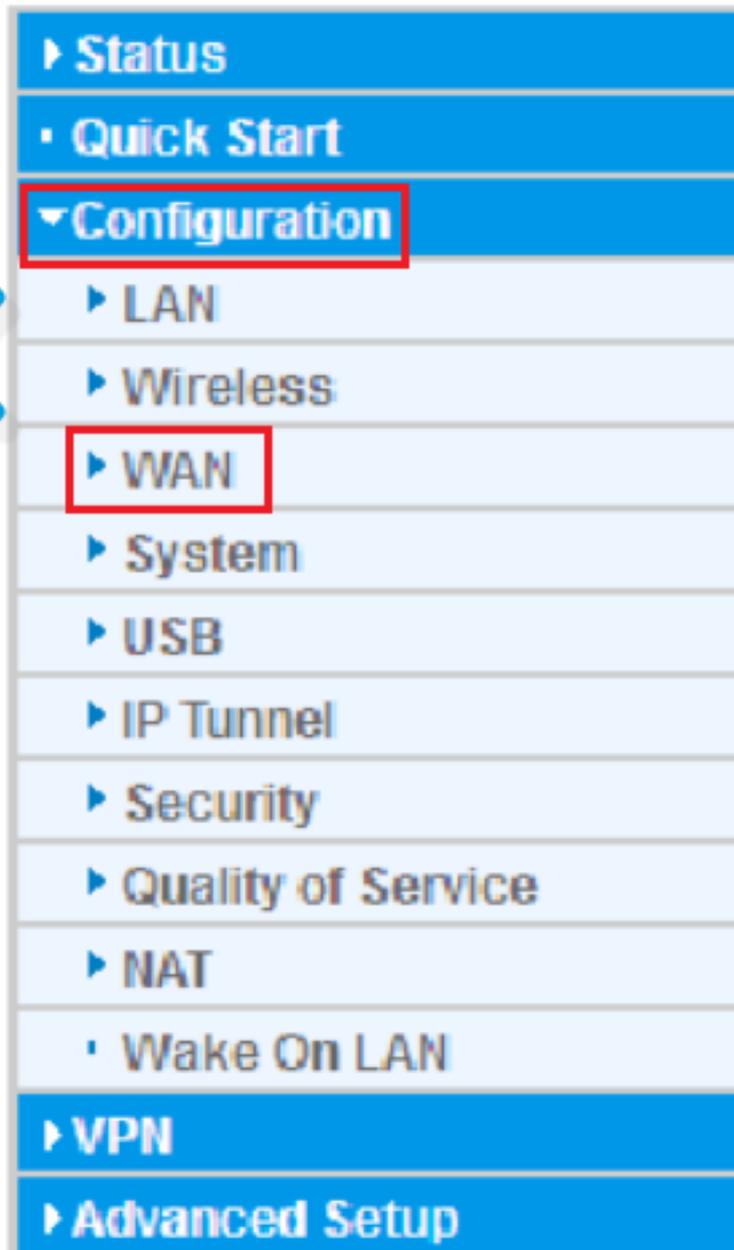


Enter **admin** for both the username and password and click **OK** to login.

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



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

For FTTP, FTTC, HFC, and FW

WAN Port: **Ethernet**

Type: **IP over Ethernet**

The screenshot shows the 'Configuration' page for 'WAN Service'. The 'Parameters' section is expanded, showing various settings. The 'WAN Port' dropdown is set to 'Ethernet' and the 'Type' dropdown is set to 'IP over Ethernet'. The '802.1P Priority' is set to '-1' and the '802.1Q VLAN ID' is set to '-1'. The 'Obtain an IP address automatically' checkbox is checked. The 'Option 60 Vendor ID' and 'Option 61 Client ID' fields are empty. The 'Option 125' radio buttons are set to 'Disable'. The 'WAN IP Address', 'WAN Subnet Mask', and 'WAN gateway IP Address' fields are empty. The 'IPv6 for this service' checkbox is checked. The 'Obtain an IPv6 address automatically' checkbox is checked. The 'WAN IPv6 Address/Prefix Length' and 'WAN Next-Hop IPv6 Address' fields are empty. The 'NAT' checkbox is checked, and the 'Fullcone NAT' checkbox is unchecked. The 'Firewall' checkbox is checked. The 'IGMP Multicast Proxy' checkbox is unchecked, and the 'IGMP Multicast Source' checkbox is unchecked. The 'No Multicast VLAN Filter' checkbox is unchecked. The 'MLD Multicast Proxy' checkbox is unchecked, and the 'MLD Multicast Source' checkbox is unchecked. The 'MTU' is set to '1500' and the 'MAC Spoofing' checkbox is unchecked. The 'Next' button is highlighted with a red box.

WAN Port	Ethernet		
Type	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	<input checked="" type="checkbox"/> Enable		
Option 60 Vendor ID			
Option 61 Client ID			
Option 125	<input checked="" type="radio"/> Disable <input type="radio"/> Enable		
WAN IP Address			
WAN Subnet Mask			
WAN gateway IP Address			
IPv6 for this service	<input checked="" type="checkbox"/> Enable		
Obtain an IPv6 address automatically	<input checked="" type="checkbox"/> Enable		
WAN IPv6 Address/Prefix Length			
WAN Next-Hop IPv6 Address			
NAT	<input checked="" type="checkbox"/> Enable	Fullcone NAT	<input type="checkbox"/> Enable
Firewall	<input checked="" type="checkbox"/> Enable		
IGMP Multicast Proxy	<input type="checkbox"/> Enable	IGMP Multicast Source	<input type="checkbox"/> Enable
No Multicast VLAN Filter	<input type="checkbox"/> Enable		
MLD Multicast Proxy	<input type="checkbox"/> Enable	MLD Multicast Source	<input type="checkbox"/> 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: ATM PTM

Type: 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 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

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:

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