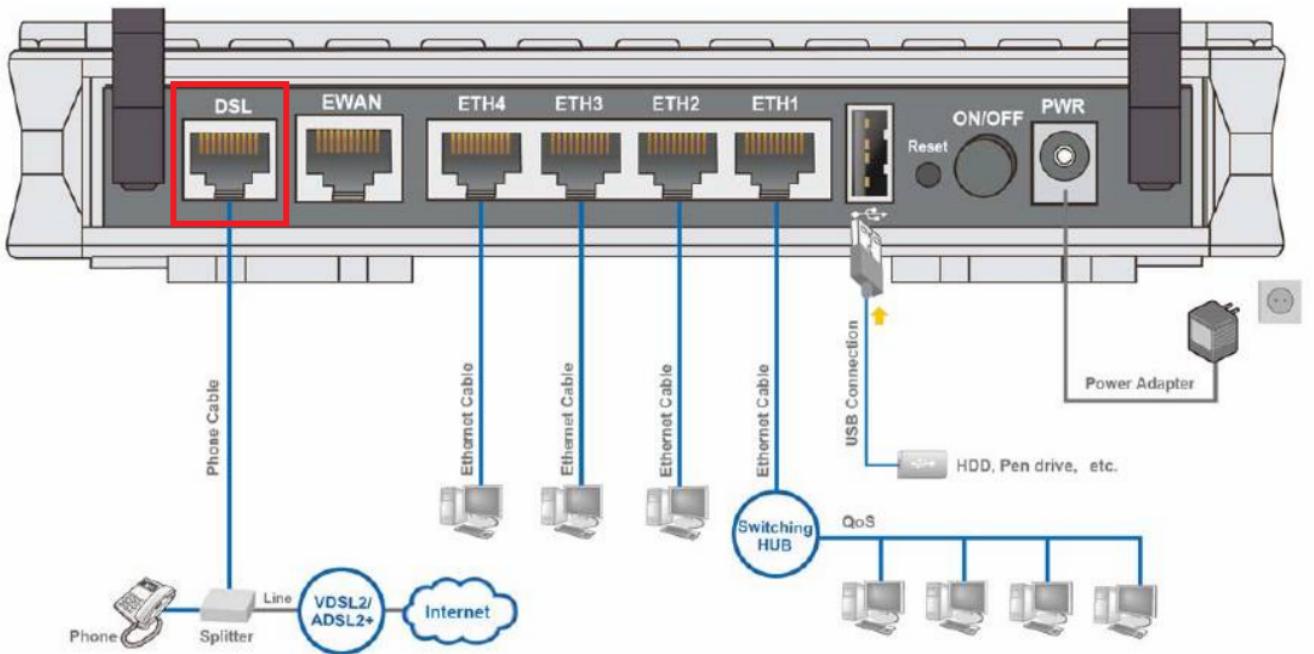


Configuring Billion Modem for SpinTel NBN

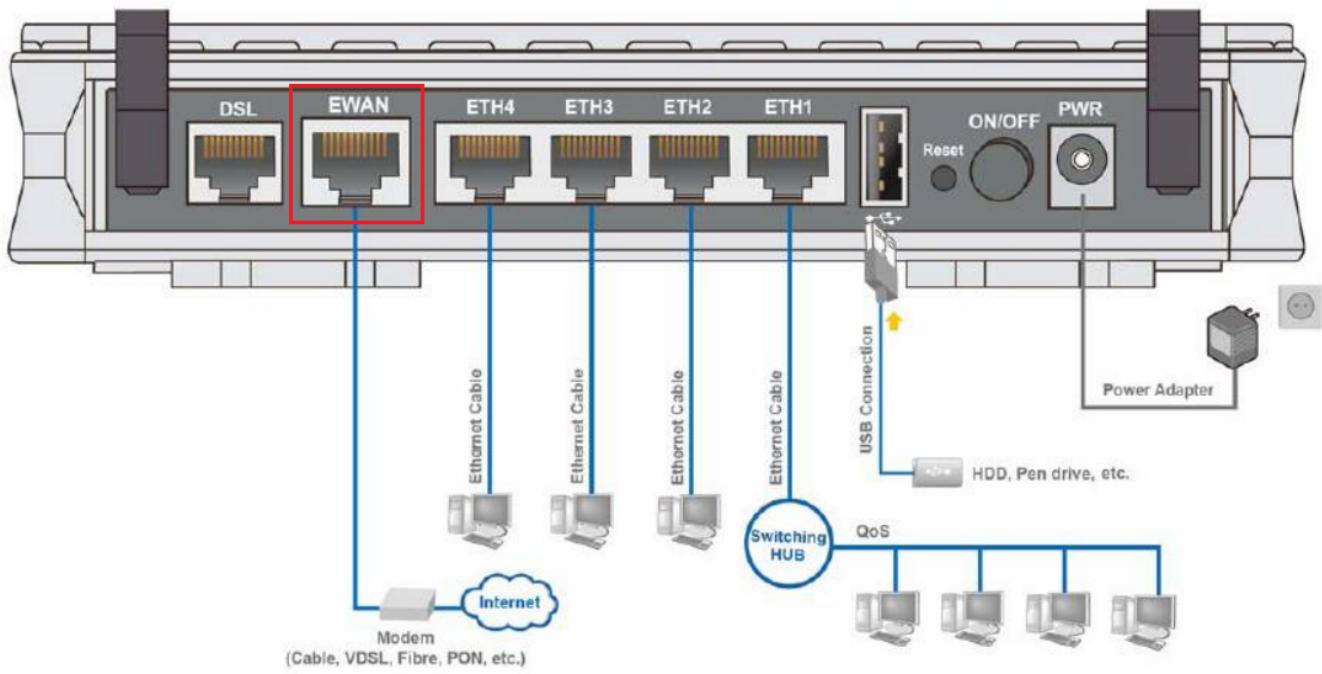
How do you know if your Billion modem is compatible with nbn?

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](#).

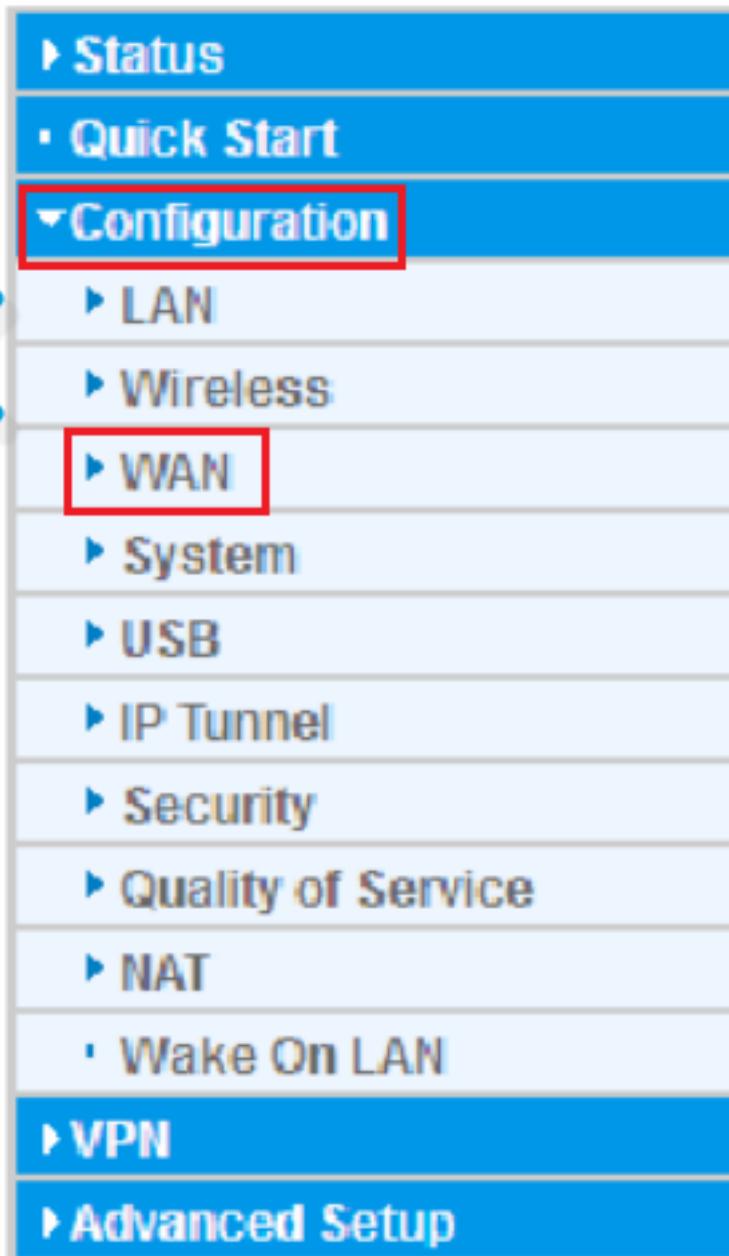


Enter **admin** for both the username and password and click **OK** to login.

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

The image shows a table for managing WAN services. The columns are: Interface, Description, TEL No., APN, Username, NAT, Firewall, Dial on demand, and Edit. There is one row for 'USB3G0' with the following values: Description: *99***1#, APN: Internet, Username: (empty), NAT: Enabled, Firewall: Enabled, Dial on demand: Enabled, and Edit: (button). At the bottom left of the table is a red box around the 'Add' button, and at the bottom right is a 'Remove' button.

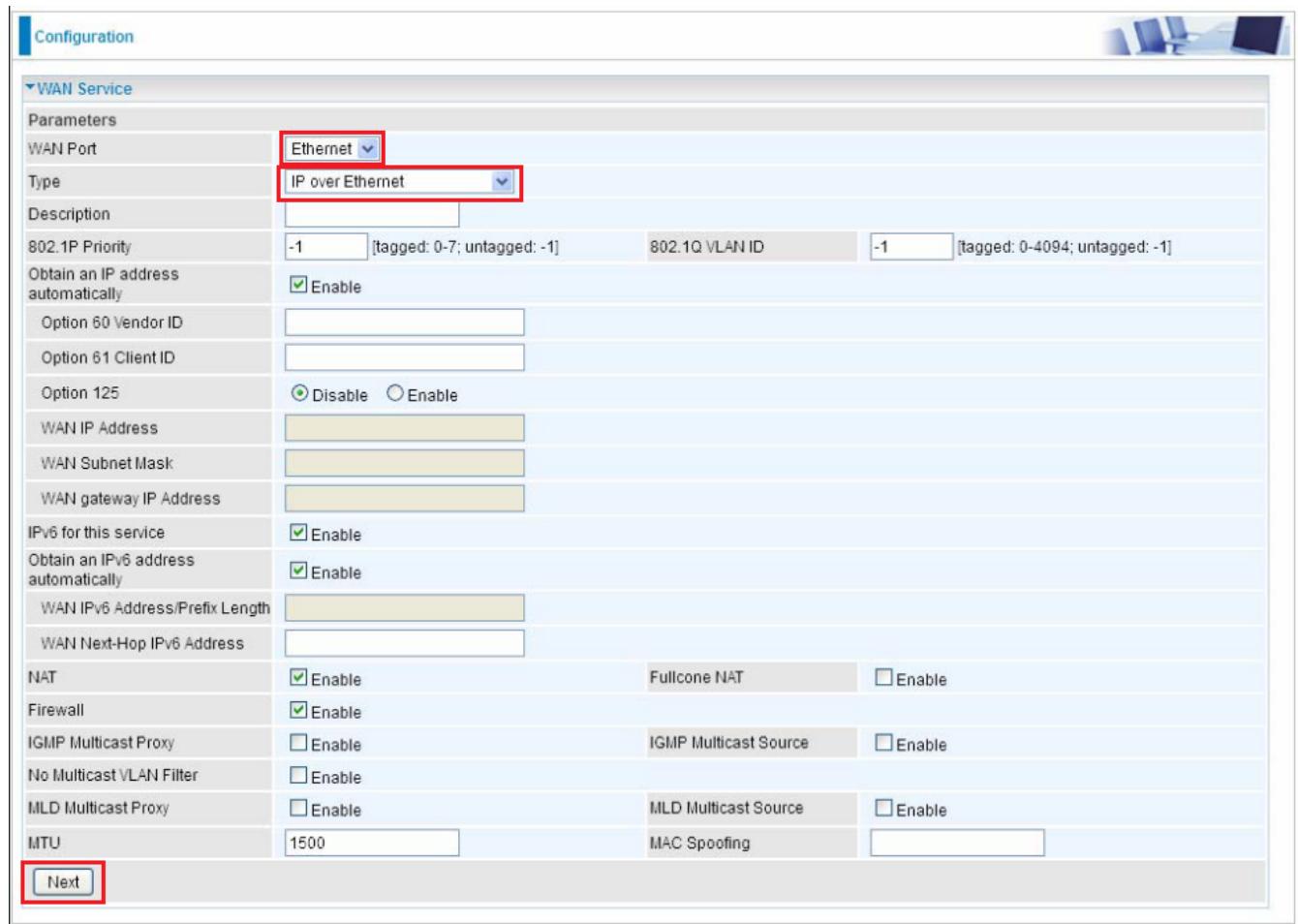
WAN Service								
ATM Interface								
3G/4G LTE Interface								
Interface	Description	TEL No.	APN	Username	NAT	Firewall	Dial on demand	Edit
USB3G0	*99***1#	Internet			Enabled	Enabled	Enabled	<input type="button" value="Edit"/>

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

For FTTP, FTTC, HFC, and FW

WAN Port: Ethernet

Type: IP over Ethernet



The screenshot shows a 'Configuration' interface with a 'WAN Service' section. The 'WAN Port' dropdown is set to 'Ethernet' and the 'Type' dropdown is set to 'IP over Ethernet'. The 'Next' button at the bottom is highlighted with a red box.

Parameter	Value	Notes
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

For FTTN/FTTB

WAN Port: DSL

Layer2 Interface: PTM

Type: IP over Ethernet

Configuration

WAN Service

Parameters

WAN Port	DSL
Layer2 Interface	<input type="radio"/> ATM <input checked="" type="radio"/> PTM
Type	IP over Ethernet
VPI / VCI	0 [0-255] / 35 [32-65535]
Description	
802.1P Priority	-1 [tagged: 0-7; 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
Firewall	<input checked="" type="checkbox"/> Enable
IGMP Multicast Proxy	<input type="checkbox"/> Enable
No Multicast VLAN Filter	<input type="checkbox"/> Enable
MLD Multicast Proxy	<input type="checkbox"/> Enable
MTU	1500

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>