

*NetComm*<sup>®</sup>

NETCOMM LIBERTY™ SERIES

3G Wireless N300

VoIP Router



# 1

## Hardware Installation



1. Attach the supplied antenna to the circular antenna port on the back of the NetComm 3G18WW (this should be attached onto the port in a clockwise direction).
2. Connect a compatible 3G USB Modem to the “3G USB” port on the front of the NetComm Router.

Please note: You can also connect an Ethernet cable from your ADSL/Cable modem's LAN port to your 3G18WW's WAN port for fixed line connections.

3. Connect the power adapter to the power socket on the back of the NetComm 3G18WW.
4. Plug the power adapter into the wall socket and switch on the power.
5. Wait approximately **60 seconds** for the NetComm 3G18WW to power up.

# 2

## Connecting to the Router via a Cable



1. Connect the **yellow Ethernet cable** provided to one of the ports labelled **“LAN1-LAN4”** on the back of the NetComm 3G18WW.
2. Connect the other end of the Ethernet cable to your computer or to another Ethernet-enabled device like a gaming console, a TV or a home cinema system.
3. Wait approximately **30 seconds** for the connection to establish.

# 3

## Connecting to the router via Wireless



You can connect multiple wireless devices, including laptops, desktops and PDA's to your router by following these two basic steps.

1. Using your wireless device, scan the wireless networks in your area and select the network called **NetComm Wireless**, then click **connect**.

Please note: If you changed the wireless network name during set-up, select the new name

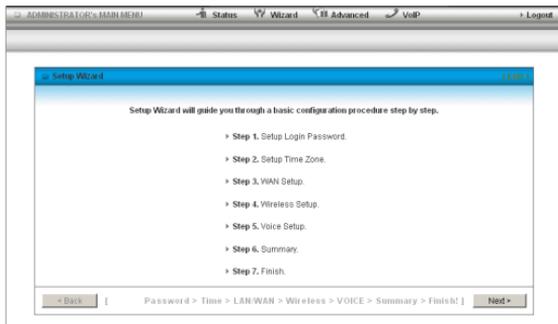
2. Enter the following default security key: **a1b2c3d4e5**.

Please note: If you changed the wireless security password during set-up, you will have to use the new password

To ensure wireless security, we recommend that you change the default settings through the web Interface.

# 4

## Connecting the Router to the Internet



After completing the hardware installation, you will need to enter the necessary settings to be able to connect to your applicable service provider. This is done with an easy to use wizard that will guide you through the set-up process.

1. On your computer, open a web-browser (such as Internet Explorer, Firefox, or Safari), type **192.168.20.1** into the address bar at the top of the screen and press **Enter**.
2. At the login screen, type “admin” into the system password field and then click **Login** to continue. This will take you directly to the set-up wizard page.

### 3. Follow the instructions to:

- Change the admin password so only you can access the routers settings.
- Select your time zone.
- Choose whether you want your WAN connection to auto detect or if you would like to set it up manually.
- Select whether you would like to connect with 3G (Wireless WAN) or ADSL/Cable (Ethernet WAN). If you select Ethernet WAN you can also select the connection type. We recommend to keep the default settings (Auto-detect WAN type) if you are unsure.
  - If you select to use 3G you can choose to have your modem auto connect or you can control the connection manually.
  - If you select to use ADSL/Cable, you will be prompted to enter additional information from your ISP.
- Select whether you want to use a wireless connection and what you would like the wireless network name (SSID) to be. If you change the wireless network name, make sure you remember it so you can connect to it later.
- Select your wireless security level. Again, if you change the wireless security password, make sure you write it down so you can use these details to connect wirelessly later.
- Setup your VoIP connection. Enter the information as supplied by your VoIP Service Provider.

4. Once finished, click on **Apply Settings** and allow the router approximately **one minute** to complete the configuration.
5. Click on **Finish** to restart the router.

If you are connected successfully to 3G Mobile Broadband, the 3G LED  will be lit.

You can also check on the status of your connection by clicking "Status" after logging in to the web based user interface.

## List of Mobile Broadband Service Providers and APNs:

Mobile Service Provider	APN - Access Point Name
<b>AUSTRALIA</b>	
Telstra	Telstra.internet Telstra.pcpack Telstra.datapack Telstra.extranet
Optus – Postpaid	connect
Optus – Prepaid	preconnect
Three – Postpaid	3netaccess
Three – Prepaid	3services
Vodafone – Postpaid	vfinternet.au
Vodafone – Prepaid	vfprepaymbb
Crazy John's	purtona.net
DoDo	dodolns1
Blink	splns888a1
Internode	Internode
Primus	primuslns1
TPG	internet
Exetel	Exetel1
Westnet	Splns555a1
iiNet	iiNet
<b>NEW ZEALAND</b>	
Vodafone NZ	www.vodafone.net.nz
CallPlus	www.callplus.net.nz
Slingshot	www.slingshot.net.nz
Telstra Clear	www.telstraclear.net.nz
Telecom NZ XT	internet.telecom.co.nz
2degrees	internet

# 5

## Making Calls over the Internet Using VoIP Service



The NetComm 3G18WW allows you to make VoIP calls over the Internet by simply plugging a standard analogue telephone into the router and using a VoIP Service Provider (VSP).

Before you get started making a call, make sure you've checked the following:

1. Have you inserted your 3G USB modem into your 3G18WW router?
2. Have you set up a VoIP account with a VoIP service provider (e.g. MyNetFone, Engin, ...)?

Note: The VoIP service provider will issue a phone number or Direct in dial number (DID) for inbound calls, so other people can reach you when calling from their standard landline phone or a mobile phone.

Note: VoIP calls originating from your connected analogue telephone will appear to callers as originating from this assigned number (Caller ID) if not configured otherwise.

### 3. Have you registered your VoIP account in the router's setting?

Note: As all Voice Service Providers use different settings, please refer to the Online User Manual for details on how to configure VoIP on your 3G18WV.

### 4. Is your router powered on?

### 5. Do you have your telephone connected (via a telephone cable) to the Line port on the rear of the 3G18WV?

### 6. Is the phone LED light on and can you hear a dial tone when you pick up your handset?

## How to receive a call:

When an incoming call is received, the phone LED  will start flashing and the phone connected to the 3G18WV will ring.

For more detail on how to configure VoIP and other router settings, please refer to the Online User Manual, which can be downloaded in PDF format from the website:

**<http://www.netcomm.com.au/3G18WV>**

Note: Please refer to your VoIP service provider for required settings and activation of your VoIP phone service and information about the call charges that apply. For assistance with the operation of your telephone handset, please refer to the documentation provided by the manufacturer of your analogue telephone.

6

Congratulations!



**You have successfully completed the set-up process and should now be connected to the Internet.**

# 7 Troubleshooting



## **I cannot connect via 3G**

- Make sure that you are using a compatible 3G USB modem. Check <http://www.netcomm.com.au/support/3g-modem-compatibility-list> for the most recent 3G compatibility list.
- Try manually entering the information required to connect via 3G such as APN, User Name and Password. These details are supplied by your 3G Internet Service Provider.

## **Cannot establish a wireless connection**

- Make sure the wireless switch on your laptop is in the on position.
- Ensure your device and wireless adapter are using the same wireless security settings.

## Front Panel

The router has been designed to be placed on a desktop. All of the cables exit from the rear for better organization. The LED indicator display is visible on the front of the router to provide you with information about network activity and device status. See below for an explanation of each of the indicator lights.



Front Panel	Icon	Description
WWW		Lights up when the router is connected to the internet via a fixed line WAN
LAN 1–4		Solid green light when LAN connection is established. Blinks on LAN port traffic
Power		Illuminates to indicate the router is powered on
3G		Solid green light when the router is connected via 3G, blinks on traffic
Phone		Solid green light when you are logged into your VoIP service
		Blinks on incoming or active call
Wireless		Solid green light when WLAN is enabled. Blinks on traffic (data transfer)
3G USB port		Insert your 3G USB modem stick here.
Reset button	RESET	By using a paper clip, hold this button down for more than 10 seconds to reset to factory defaults
WPS button	WPS	Hold and release this button in under 10 seconds to enable the WPS push-button connect function

Please note: When performing a firmware upgrade, all the lights will flash to indicate the upgrade is in progress.

## Rear Panel

Attach the antenna here. The antenna attaches in a clockwise direction.



Port	Description
WAN	RJ-45 WAN Ethernet port for fixed-line connection (ADSL/Cable/Satellite)
LAN 1	RJ-45 LAN port for wired Ethernet clients (computers, laptops, etc)
LAN 2	RJ-45 LAN port for wired Ethernet clients (computers, laptops, etc)
LAN 3	RJ-45 LAN port for wired Ethernet clients (computers, laptops, etc)
LAN 4	RJ-45 LAN port for wired Ethernet clients (computers, laptops, etc)
Line	RJ-11 Phone port for handset(s) for using VoIP functionality
On/Off	Press button to power on / off
Power	Power connector, connects to a DC 12V 1.5A Power Adapter