

CLOUDMESH GATEWAY

NF18MESH

Quick Start Guide

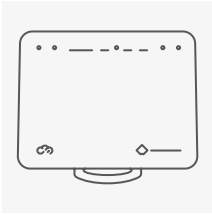




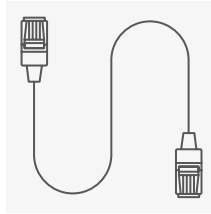
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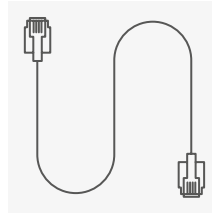
WHAT'S IN THE BOX



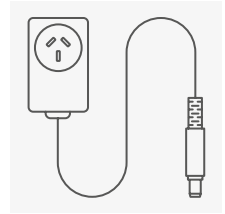
1x NF18MESH
CloudMesh Gateway



1x RJ45
Ethernet Cable



1x RJ11
Telephone Cable

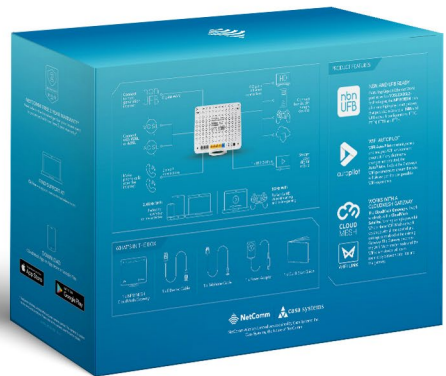


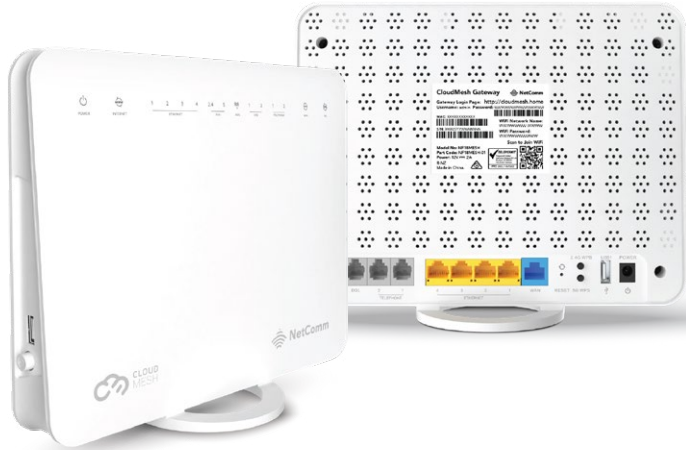
1x Power Supply
(12V/2A)

GETTING STARTED

Pre-configured?

If you received your gateway from your service provider (ISP/RSP) please follow the instructions they have provided with the gateway.





Before you begin

Ensure that you have the following information from your service provider:

- › How your **INTERNET SERVICE** will physically connect to your gateway, see below.
- › The **Settings** specific to your type of service.

There are two ways to connect your gateway to the internet service:

Ethernet WAN

This is the most common access type in Australia and New Zealand and covers fixed line technologies such as **UFB** and **nbn™ FTTP, HFC and FTTC**, as well as **Fixed Wireless** and the **Sky Muster™** Satellite services.

This type of internet service uses the blue **WAN** port on the back of the gateway to connect to the dedicated connection box installed by your access network provider.

Refer to page 5.

ADSL or VDSL

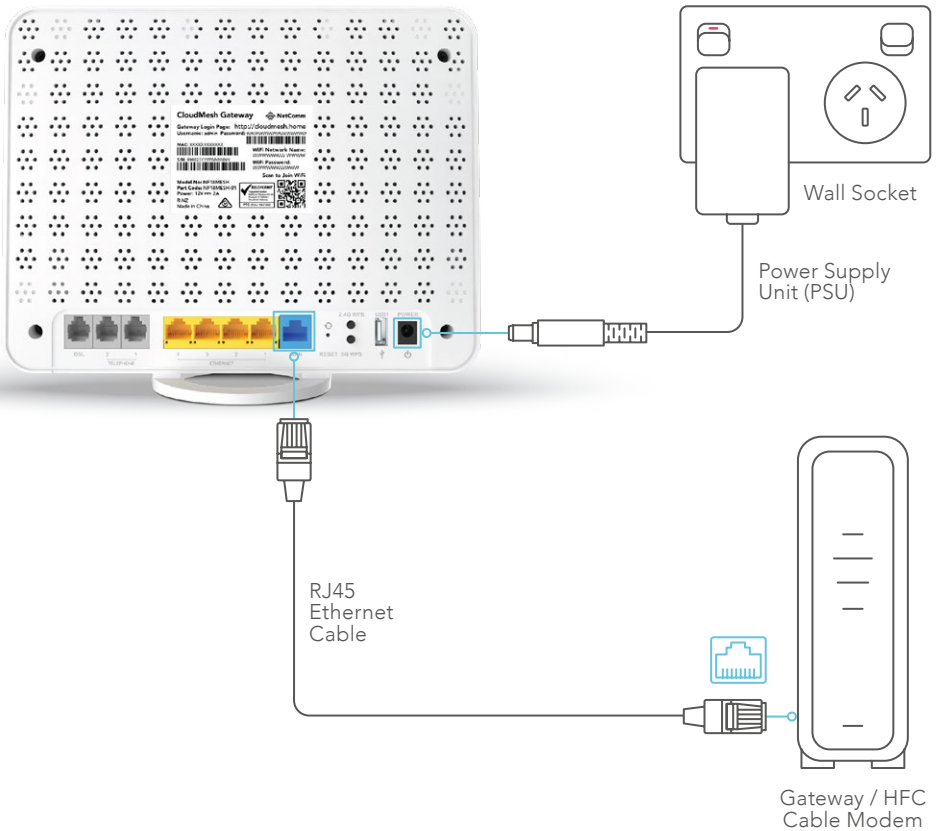
These access types are provided by **nbn™ FTTB, FTTN** or **ADSL/VDSL** over a traditional telephone line.

This connection uses the grey **DSL** port on the back of the gateway.

Refer to page 7.

INSTALLING THE GATEWAY VIA ETHERNET CONNECTIONS

- 1 Connect the **Ethernet cable** supplied by your network carrier to the **blue WAN port** on the back of the **gateway** and then connect the other end to your network carrier's upstream device, for example an FTTP gateway or HFC cable modem.



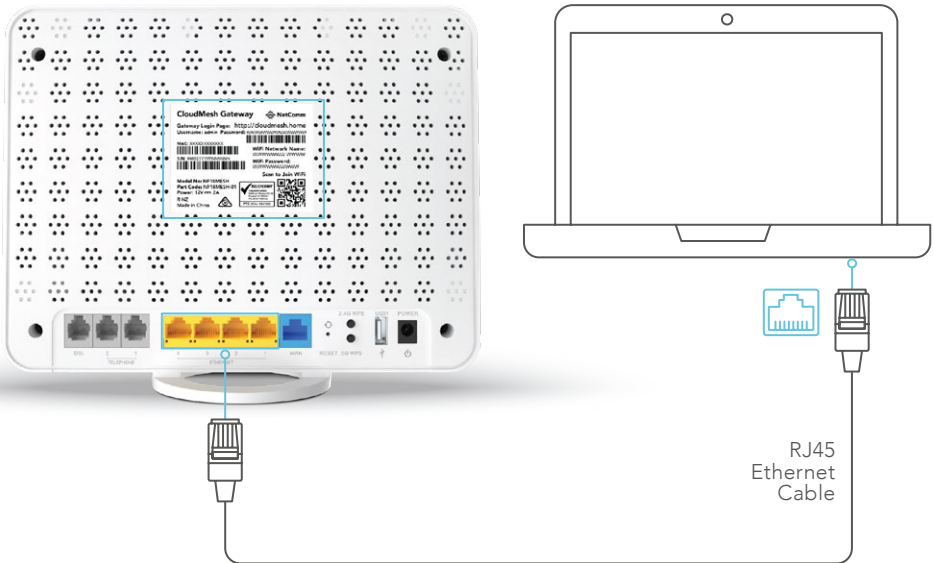
- 2 Connect the included **power supply** to the **power jack** of the **gateway** and then plug it into an available **wall socket**.

- 3 Press the **ON/OFF button** to power the gateway on. The **POWER** light will turn **red**.
When the gateway has finished starting up, the **POWER** will turn **green**.



- 4 To connect using WiFi, use your computer to scan for wireless networks and select the **Wi-Fi Network Name** and use the **Wi-Fi Password** also printed on the back of the **gateway** to log on.

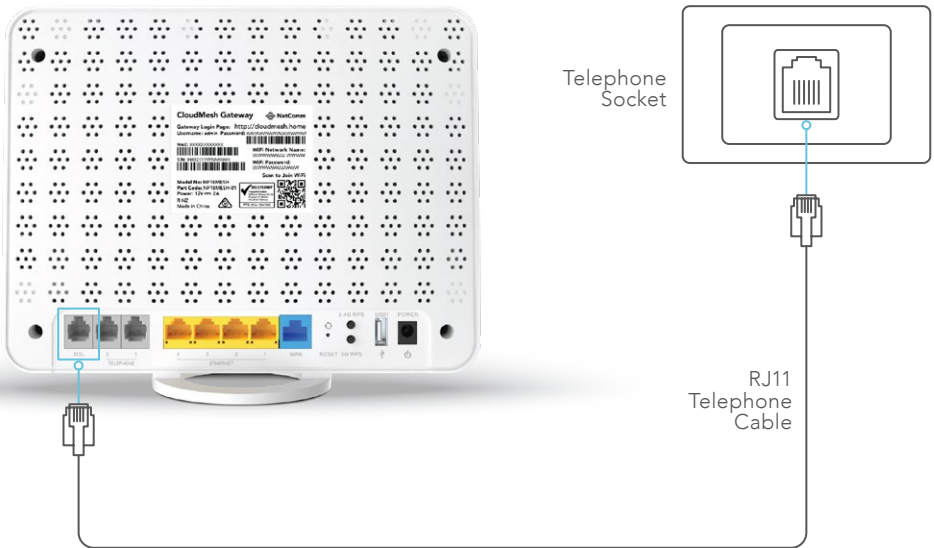
Alternatively, connect the supplied **RJ45 Ethernet cable** from your **computer** to one of the yellow **Ethernet ports** (1-4) on the back of the **gateway**.



Once the connection is established, go to the **Log in to the Web Interface** section of this guide on **page 11**.

INSTALLING THE GATEWAY VIA DSL CONNECTIONS

- 1 Connect the supplied **grey RJ11 cable** from the **grey DSL port** of the **gateway** to the wall **telephone socket**.

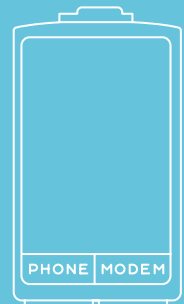


OPTIONAL CONNECTION WITH SPLITTER

If your **telephone line** delivers **both** your **internet** as well as **traditional telephone service**, you will require an **In-line DSL Splitter/Filter**.

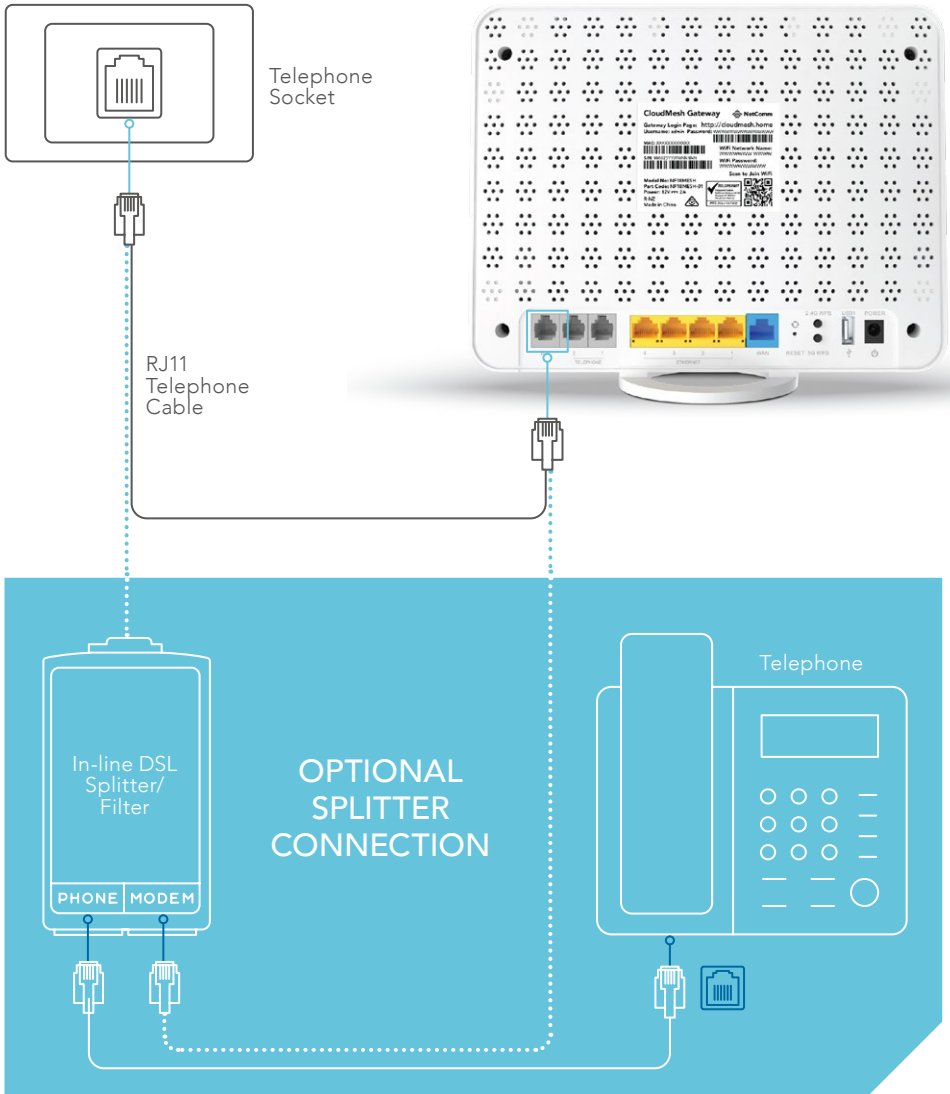
In this case, your installation will follow the **dotted lines** on the diagram on the **next page**.

Otherwise, you will need to complete the setup yourself.



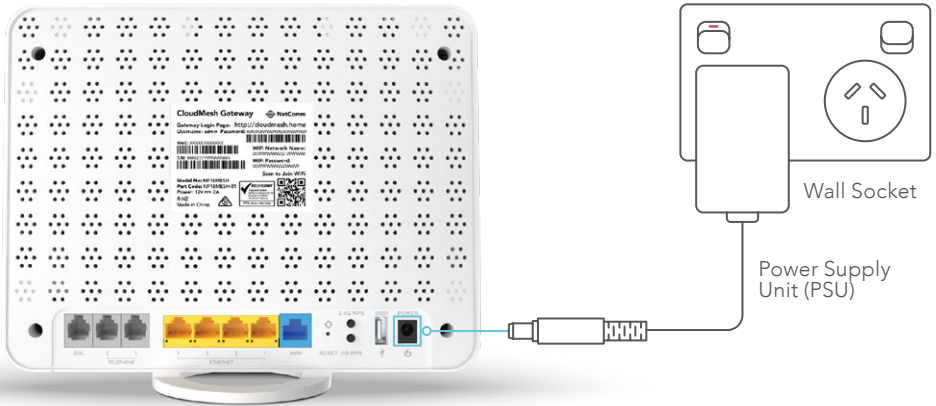
2

If you have a **VoIP** service, connect your **telephone handset** to one of the **grey TELEPHONE** ports on the back of the **gateway**.



3

Connect the included **power supply** to the **POWER** jack of the **gateway** and then plug it into an available **wall socket**.



4

Press the **ON/OFF** button to power the gateway on. The **POWER** light will turn **red**.

When the gateway has finished starting up, the **POWER** will turn **green**.

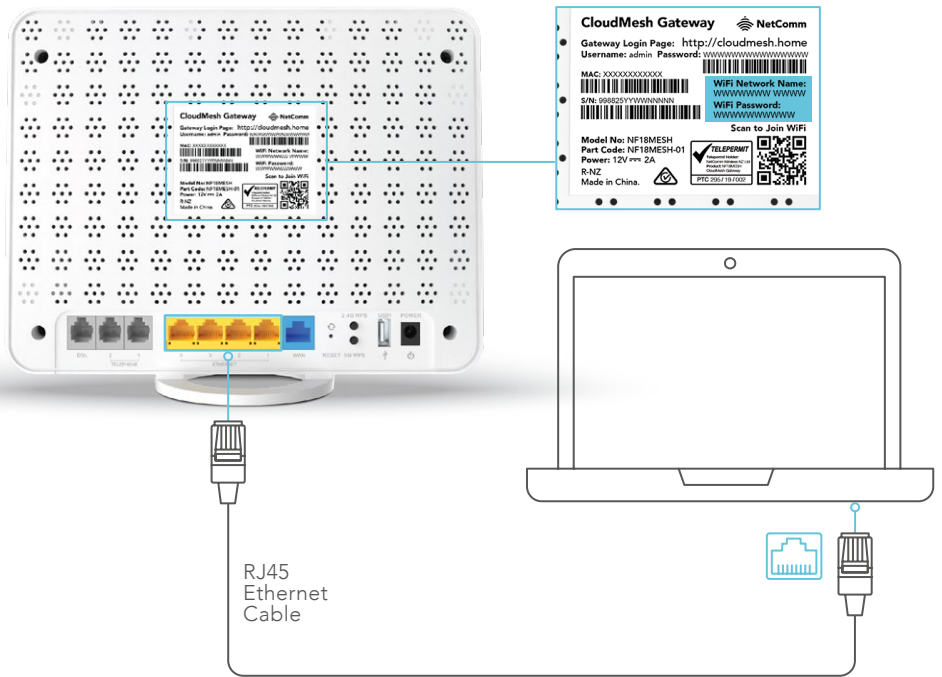
-  Power
-  Power



5

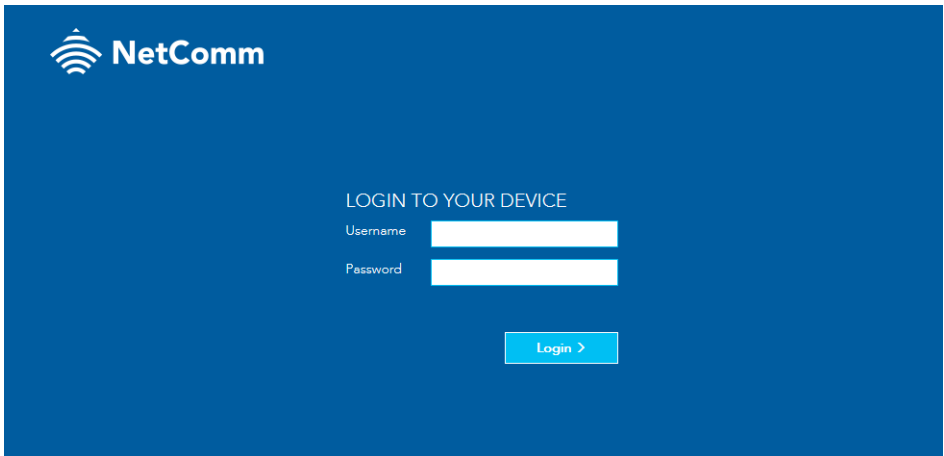
To connect using Wi-Fi, use your computer to scan for wireless networks and select the **Wi-Fi Network Name** and use the **Wi-Fi Password** also printed on the back of the **gateway** to log on.

Alternatively, connect the supplied **RJ45 Ethernet cable** from your **computer** to one of the yellow **Ethernet ports** (1-4) on the back of the **gateway**.



Once the connection is established, go to the **Log in to the Web Interface** section of this guide on **page 11**.

LOGGING IN TO THE WEB INTERFACE



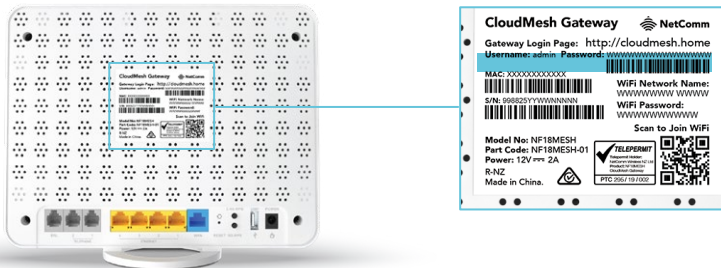
1

Open a **web browser** (such as Mozilla Firefox® or Google Chrome™), type **http://cloudmesh.home** into the address bar and press **Enter**.

If you encounter difficulties connecting, type **http://192.168.20.1** and press **Enter**.

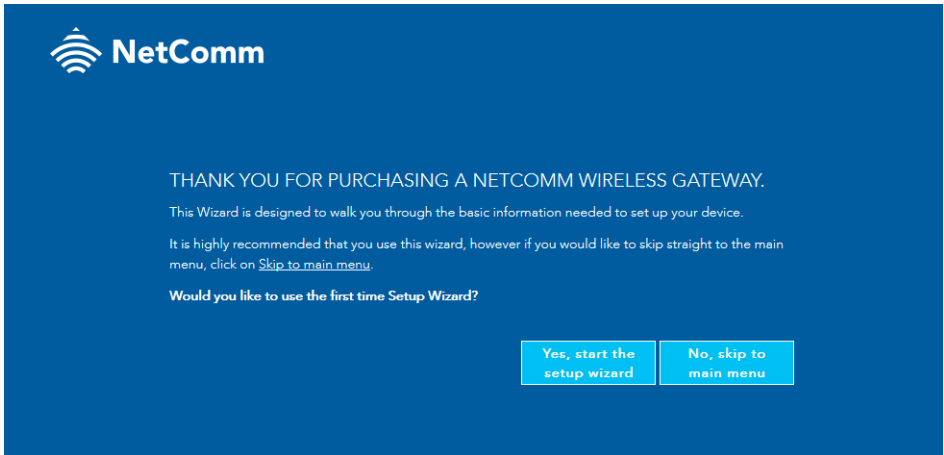
2

At the login screen, type **admin** into the **Username** field. In the **Password** field, enter the **password printed on the gateway label** (affixed to the back panel of the gateway) then click the **Login >** button.



Note – The graphics that appear in this section represent the display from a Windows browser. The same graphics will display differently when viewed on a hand held device.

USING THE FIRST-TIME SETUP WIZARD



Upon first login, the gateway displays the first-time setup wizard. We recommend using the wizard to configure your internet connection. Click the **Yes, start the setup wizard** button.

NEXT STEPS

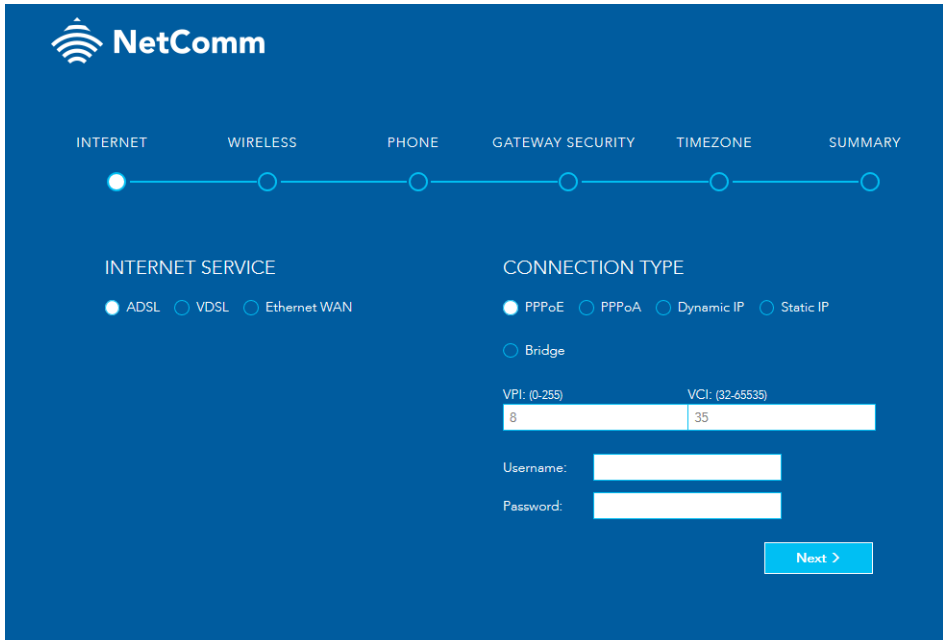
If your **Internet Service** is:

ADSL go to **page 13**

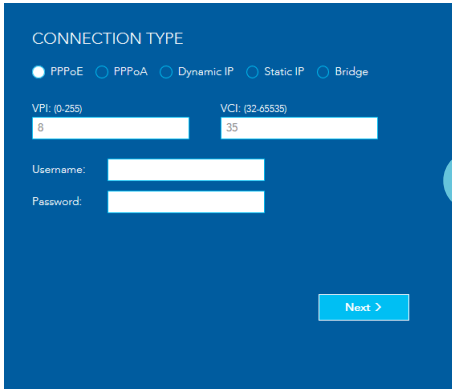
VDSL go to **page 16**

Ethernet WAN go to **page 19**

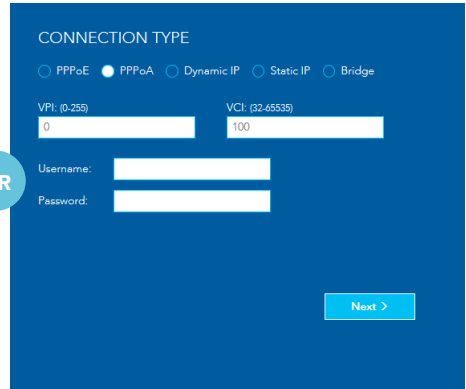
USING THE FIRST-TIME SETUP WIZARD INTERNET ADSL



- 1** Under **INTERNET SERVICE**, select **ADSL**.
If you are unsure of your service type, contact your ISP.
- 2** Under **CONNECTION TYPE**, select the type of connection your ISP has configured for you, i.e. PPPoE, PPPoA, Dynamic IP, Static IP or Bridge.
- 3** Enter the details required for your specific **Connection Type**.
See **pages 14-15** for details of the respective connection settings for each type.



OR



PPPoE

Enter the VPI and VCI values and the username and password required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

PPPoA

Enter the VPI and VCI values and the username and password required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

CONNECTION TYPE

PPPoE PPPoA Dynamic IP Static IP Bridge

VPI: (0-255) VCI: (32-65535)

Next >

OR

CONNECTION TYPE

PPPoE PPPoA Dynamic IP Static IP Bridge

VPI: (0-255) VCI: (32-65535)

WAN IP Address:

WAN Subnet Mask:

WAN Gateway IP Address:

Primary DNS server:

Secondary DNS server:

Next >

Dynamic IP

Enter the VPI and VCI values required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

Static IP

Enter the VPI and VCI values, WAN IP Address, WAN Subnet Mask, WAN Gateway IP Address, Primary DNS server and Secondary DNS server required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, **page 22**.

CONNECTION TYPE

PPPoE PPPoA Dynamic IP Static IP Bridge

VPI: (0-255) VCI: (32-65535)

Next >

OR

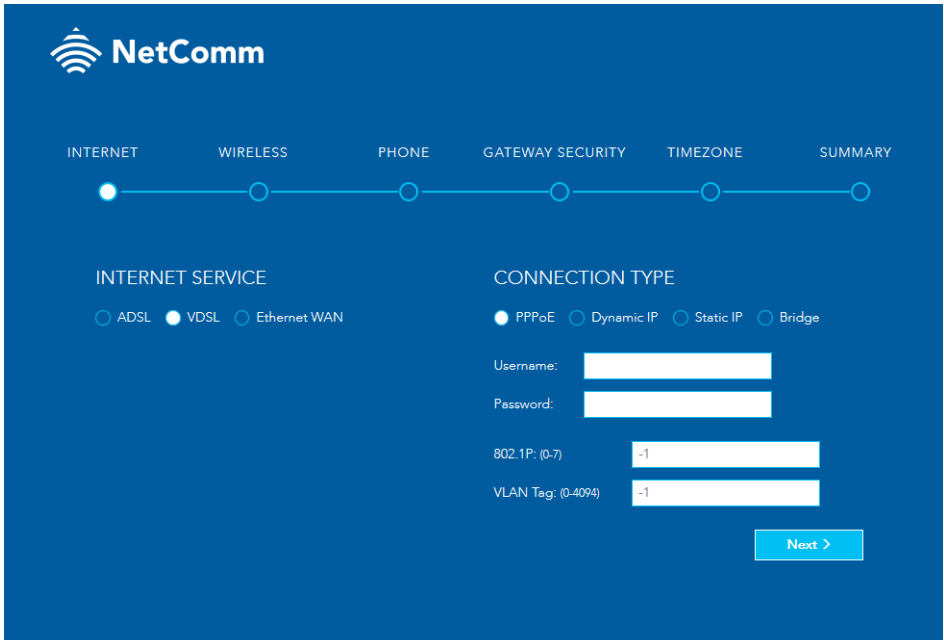
Bridge

Enter the VPI and VCI values required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go DIRECTLY to the **GATEWAY SECURITY** settings, see **page 24**.

USING THE FIRST-TIME SETUP WIZARD INTERNET VDSL



- 1** Under **INTERNET SERVICE**, select **VDSL**.
If you are unsure of your service type, contact your ISP.
- 2** Under **CONNECTION TYPE**, select the type of connection your ISP has configured for you, i.e. PPPoE, Dynamic IP, Static IP or Bridge.
- 3** Enter the details required for your specific **Connection Type**.
See **pages 17-18** for details of the respective connection settings for each type.

CONNECTION TYPE

PPPoE Dynamic IP Static IP Bridge

Username:

Password:

802.1P: (0-7)

VLAN Tag: (0-4094)

Next >

OR

CONNECTION TYPE

PPPoE Dynamic IP Static IP Bridge

802.1P: (0-7)

VLAN Tag: (0-4094)

Next >

PPPoE

Enter the username and password, 802.1P priority and VLAN Tag required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

Dynamic IP

Enter the 802.1P priority and VLAN Tag required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

CONNECTION TYPE

PPPoE Dynamic IP Static IP Bridge

WAN IP Address:

WAN Subnet Mask:

WAN Gateway IP Address:

Primary DNS server:

Secondary DNS server:

802.1P: (0-7)

VLAN Tag: (0-4094)

Next >

OR

CONNECTION TYPE

PPPoE Dynamic IP Static IP Bridge

802.1P: (0-7)

VLAN Tag: (0-4094)

Next >

Static IP

Enter the WAN IP Address, WAN Subnet Mask, WAN Gateway IP Address, Primary DNS server and Secondary DNS server, 802.1P priority and VLAN Tag required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

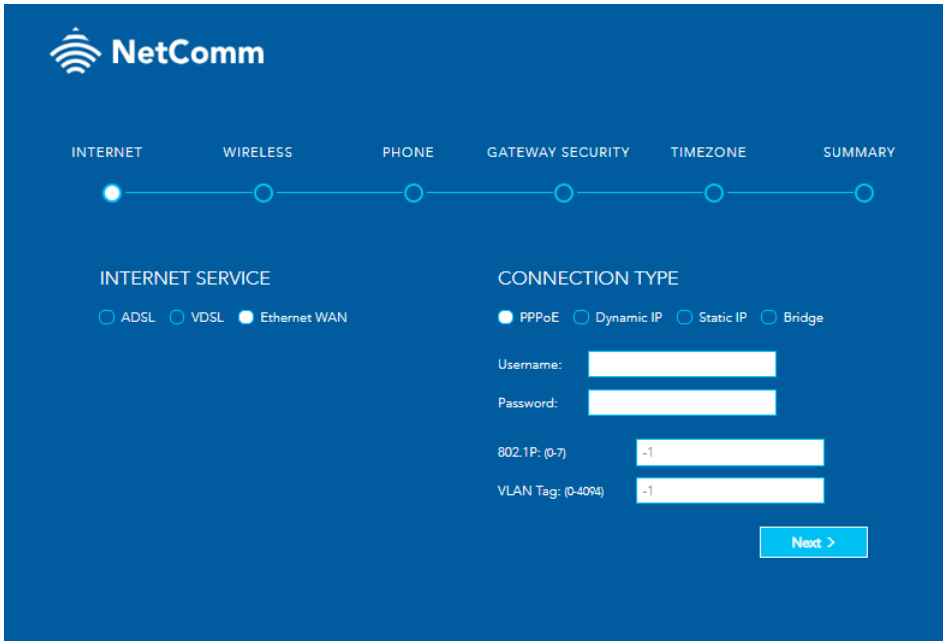
Bridge

Enter the 802.1P priority and VLAN Tag required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go directly to the **GATEWAY SECURITY** settings, see **page 24**.

USING THE FIRST-TIME SETUP WIZARD ETHERNET WAN



- 1** Under **INTERNET SERVICE**, select **Ethernet WAN**.
If you are unsure of your service type, contact your ISP.
- 2** Under **CONNECTION TYPE**, select the type of connection your ISP has configured for you, i.e. PPPoE, Dynamic IP, Static IP or Bridge.
- 3** Enter the details required for your specific **Connection Type**.
See **pages 20-21** for details of the respective connection settings for each type.

CONNECTION TYPE

PPPoE Dynamic IP Static IP Bridge

Username:

Password:

802.1P: (0-7)

VLAN Tag: (0-4094)

Next >

OR

CONNECTION TYPE

PPPoE Dynamic IP Static IP Bridge

802.1P: (0-7)

VLAN Tag: (0-4094)

Next >

PPPoE

Enter the username and password, 802.1P priority and VLAN Tag required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

Dynamic IP

Enter the 802.1P priority and VLAN Tag required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

CONNECTION TYPE

PPPoE Dynamic IP Static IP Bridge

WAN IP Address:

WAN Subnet Mask:

WAN Gateway IP Address:

Primary DNS server:

Secondary DNS server:

802.1P: (0-7)

VLAN Tag: (0-4094)

Next >

OR

CONNECTION TYPE

PPPoE Dynamic IP Static IP Bridge

802.1P: (0-7)

VLAN Tag: (0-4094)

Next >

Static IP

Enter the WAN IP Address, WAN Subnet Mask, WAN Gateway IP Address, Primary DNS server and Secondary DNS server, 802.1P priority and VLAN Tag required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go to the **WIRELESS** settings, see **page 22**.

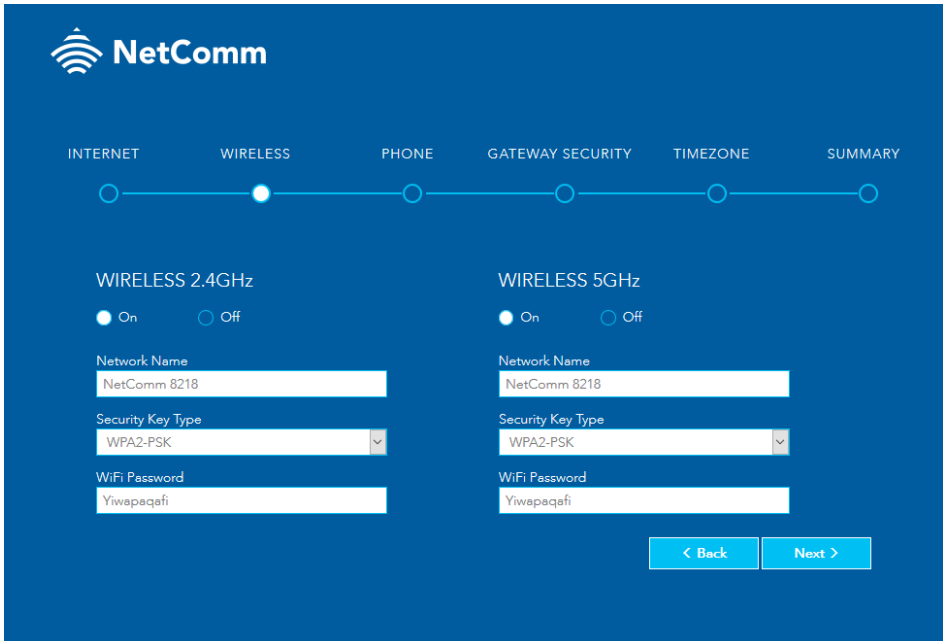
Bridge

Enter the 802.1P priority and VLAN Tag required by your ISP.

If you are unsure of these, contact your ISP.

When you have finished, click the **Next >** button to go directly to the **GATEWAY SECURITY** settings, see **page 24**.

USING THE FIRST-TIME SETUP WIZARD WIRELESS



- 1 On this page you can configure the wireless networks of the gateway.
Enter the **Network Name** (the name displayed on client devices when they scan for wireless networks), the **Security Key Type** (encryption type) and the **WiFi password**.
- 2 When you have finished, click the **Next >** button.

FOR A SEAMLESS WIFI EXPERIENCE

Please keep the same **Network Names** and **WiFi Passwords** for both the 2.4Ghz and 5Ghz networks settings.

USING THE FIRST-TIME SETUP WIZARD PHONE



The screenshot shows the NetComm first-time setup wizard. At the top, the NetComm logo is displayed. Below it is a progress bar with six steps: INTERNET, WIRELESS, PHONE, GATEWAY SECURITY, TIMEZONE, and SUMMARY. The 'PHONE' step is currently selected, indicated by a white dot. Below the progress bar, a note reads: "Note: Configuration of a telephone is optional. If you do not intend to use a telephone handset with your router, click the Next button below to skip this section." The main content area is divided into two columns: 'PHONE LINE 1' and 'PHONE LINE 2'. Each column contains six input fields: Phone Number, SIP Username, SIP Password, SIP Proxy Server, SIP Registrar Server, and SIP Outbound Proxy *. At the bottom right, there are two buttons: '< Back' and 'Next >'. A footnote at the bottom center states: "* Optional field, leave blank if you don't have this information."

1

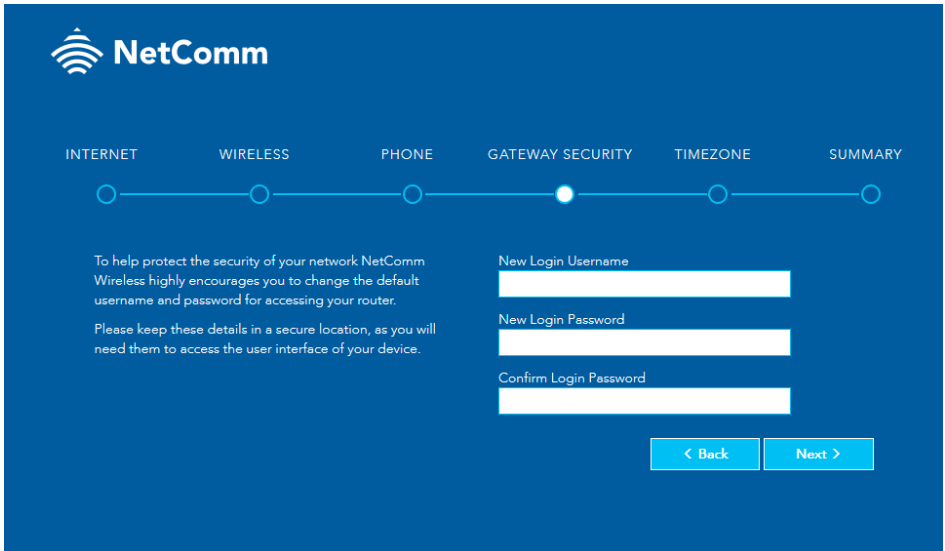
Configuration of a VoIP telephone is optional. If you do not intend to use a telephone handset with your gateway, click the **Next >** button to skip this section.

2

To configure a telephone, enter the details into the fields shown for each line you wish to use. If you do not know the values to enter, contact your ISP.

Click the **Next >** button when you have finished.

USING THE FIRST-TIME SETUP WIZARD GATEWAY SECURITY



1

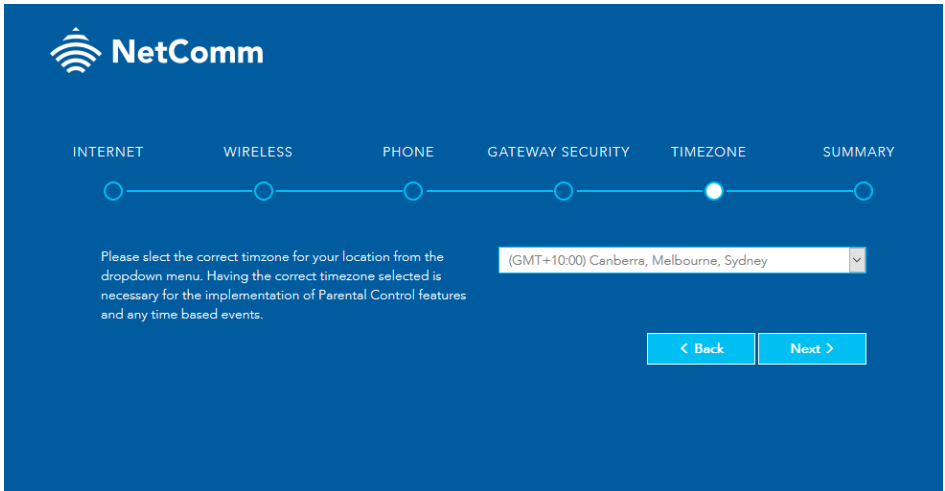
We highly recommend that you configure a new username and password to access the gateway.

2

Usernames and passwords are **case sensitive**, can be up to 16 characters in length and may comprise letters, special characters and numbers without spaces.

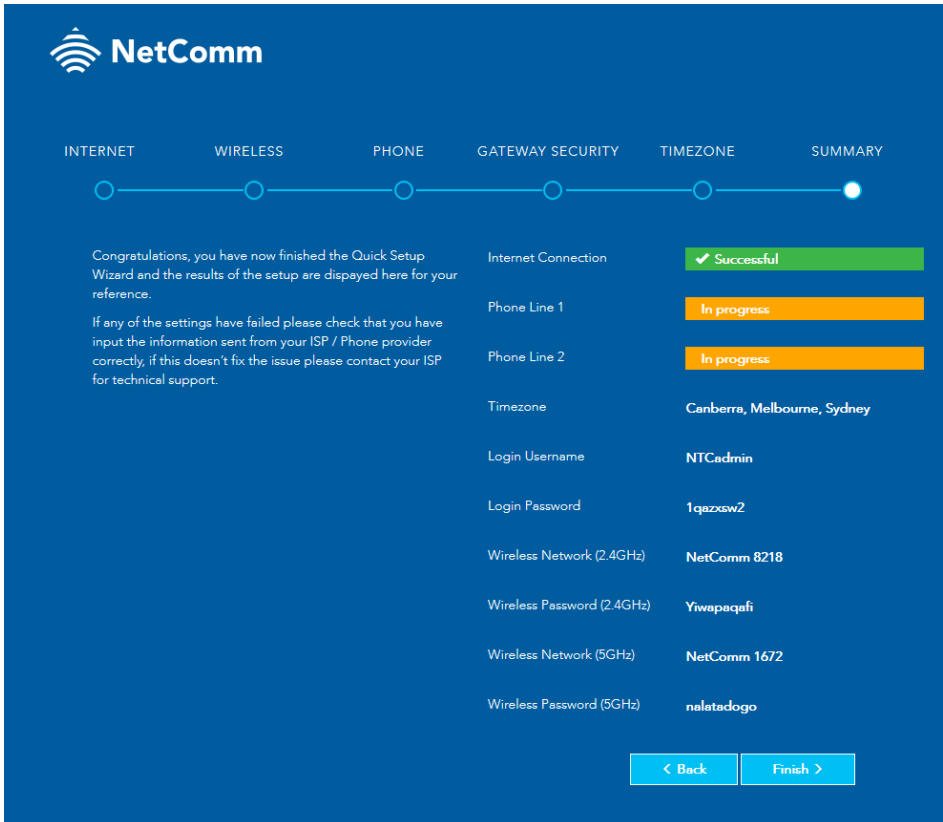
When you have finished entering the new credentials, click the **Next >** button.

USING THE FIRST-TIME SETUP WIZARD TIMEZONE



- 1 Specify the **timezone** where the gateway is located for correct time keeping and the log keeping function of the gateway.
- 2 Click the **Next** > button when you have chosen the correct timezone.

USING THE FIRST-TIME SETUP WIZARD SUMMARY



NetComm

INTERNET WIRELESS PHONE GATEWAY SECURITY TIMEZONE SUMMARY

Congratulations, you have now finished the Quick Setup Wizard and the results of the setup are displayed here for your reference.

If any of the settings have failed please check that you have input the information sent from your ISP / Phone provider correctly, if this doesn't fix the issue please contact your ISP for technical support.

Internet Connection	✓ Successful
Phone Line 1	In progress
Phone Line 2	In progress
Timezone	Canberra, Melbourne, Sydney
Login Username	NTCAdmin
Login Password	1qz2sw2
Wireless Network (2.4GHz)	NetComm 8218
Wireless Password (2.4GHz)	Ywapaqafi
Wireless Network (5GHz)	NetComm 1672
Wireless Password (5GHz)	nalatadogo

< Back Finish >

- 1 The wizard displays a summary of the entered information. Check that the details are correct. If they are correct, click the **Finish** > button. If they are not, click the < **Back** button to go back to the relevant screen to make changes.
- 2 When you click the **Finish** > button, the gateway returns you to the **SUMMARY** page.



CONNECTING WIRELESS DEVICES

On your WiFi device, scan for **wireless networks** and select the **network name** that you specified during the setup wizard. Enter the **WiFi password** that you specified during the setup wizard.

Congratulations!

Your **CloudMesh Gateway** is now ready for use.



SOURCE CODE - GNU General Public License

This product includes software code that is subject to the GNU General Public License ("GPL") or GNU Lesser General Public License ("LGPL"). This code is subject to the copyrights of one or more authors and is distributed without any warranty. A copy of this software can be obtained by contacting NetComm.

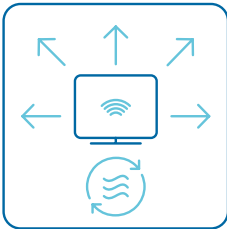
PLEASE READ BEFORE USE

SAFETY & PRODUCT CARE



Location

- › The device is designed for indoor use only.
- › Place the device in a central location for the best WiFi performance.



Airflow

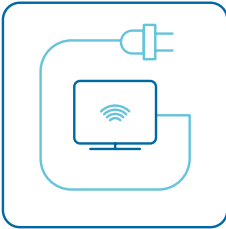
- › Do not restrict airflow around the device.
- › The device is air-cooled and may overheat if airflow has been restricted.
- › Always allow minimum clearance of 5cm around all sides and the top of the device.
- › The device may become warm during normal use.
- › Do not cover, do not put in an enclosed space, do not put under or behind large items of furniture.



Environment

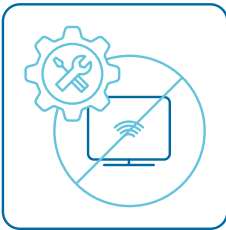
- › Do not place the device in direct sunlight or any hot areas.
- › The safe operating temperature of the device is between 0° and 40°C.
- › Do not allow the device to come in contact with any liquid or moisture.
- › Do not place the device in any wet or humid areas such as kitchen, bathroom or laundry rooms.

Safety & Product Care Continued



POWER ADAPTER

- › Always use the power adapter that came with the device.
- › You should immediately stop using the power supply unit if the cable or power adapter is damaged.



SERVICE

- › Do not attempt to disassemble, repair, or modify the device.
- › There are no user-serviceable components in the device.



Small Children

- › Do not leave the device or its accessories within the reach of small children or allow them to play with it.
- › The device may contain small parts with sharp edges that could cause an injury or which could become detached and create a choking hazard.

Safety & Product Care Continued



RF Exposure

- › The gateway contains a transmitter and a receiver. When it is on, it receives and transmits RF energy.
- › The gateway conforms with the radio frequency (RF) exposure limits adopted by the Australian Communications and Media Authority Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard 2014, when used at a distance of not less than 20 cm from the body.



Product handling

- › Always treat the device and its accessories with care and keep them in a clean and dust-free place.
- › Do not expose the device or its accessories to open flames.
- › Do not drop, throw or try to bend the device or its accessories.
- › Do not use harsh chemicals, cleaning solvents, or aerosols to clean the device or its accessories.
- › Do not paint the device or its accessories.
- › Please check local regulations for disposal of electronic products.
- › Arrange power and ethernet cables in a manner such that they are not likely to be stepped on or have items placed on them.



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MPRT-00028-000 NF18MESH QSG Rev 6