Wi-Fi 6

# CLOUDMESH GATEWAY

## NF20MESH

CLOUD™
MESH

**The ultimate Wi-Fi fixer** - Bring the new adaptive Wi-Fi experience to your home with the **CloudMesh Gateway (NF20MESH).**

## Wi-Fi 6 IS HERE

**Wi-Fi 6** is the next generation of Wi-Fi. Delivering significant speed, performance and efficiency improvements, it provides up to four times more device capacity than Wi-Fi 5. These improvements enable end users to stream higher quality with more devices on the network, while still operating at optimal performance. Your **Wi-Fi 6 Gateway** will future-proof your Wi-Fi experience, and enable smart devices throughout your modern, connected home.

## MESH ENABLED

The **CloudMesh Gateway** (**NF20MESH**) works wirelessly with the **CloudMesh Satellite** (**NS-02**), forming a single powerful Whole Home Wi-Fi Mesh network with all the control and settings centralized on the gateway. The gateway becomes the Wi-Fi Mesh master node and the Wi-Fi client device roams seamlessly between satellites and the gateway.

## EASY PAIRING WITH CLOUDMESH SATELLITES

The **CloudMesh** system is a turnkey, out-of-the-box solution. ISP Satellite pre-provisioning is available via a cloud portal and API, allowing for a **Zero Touch configuration** experience for the end-user. There is also an easy and fast alternative for in home setup using **WPS buttons**.

NetComm

# KEY
## FEATURES CONT.

### Wi-Fi AUTOPILOT

Every **CloudMesh Gateway** includes the **CloudMesh Wi-Fi AutoPilot**.

**Wi-Fi Auto-Pilot** constantly scans and analyses the end-user Wi-Fi environment. If any detrimental changes are detected, the AutoPilot adjusts the gatewayís Wi-Fi parameters. Any action taken is based on a patented and weighted algorithm ensuring that the internet connection experience is not compromised. It ensures that every Wi-Fi client device is connected on the best possible channel, using the fastest available band, at the perfect RF power level and at the closest Wi-Fi access point.

### EDGE PROCESSING

Performing adjustments and assessing the environment at the edge via Cloud Intelligence, **CloudMesh** and the **Wi-Fi Analytics Cloud** deliver a high reliability,  low latency, superior performance with real-time applications such as video conferencing, and reduced costs associated with cloud server traffic.

### MADE FOR NBN AND UFB

Featuring a Gigabit WAN port as well as **VDSL2/ADSL2** technologies, the **CloudMesh Gateway** will connect with FTTN, FTTB, FTTC and FTTH. The Gateway also features VoIP for HD quality voice calls with the capacity to connect 2 phones.
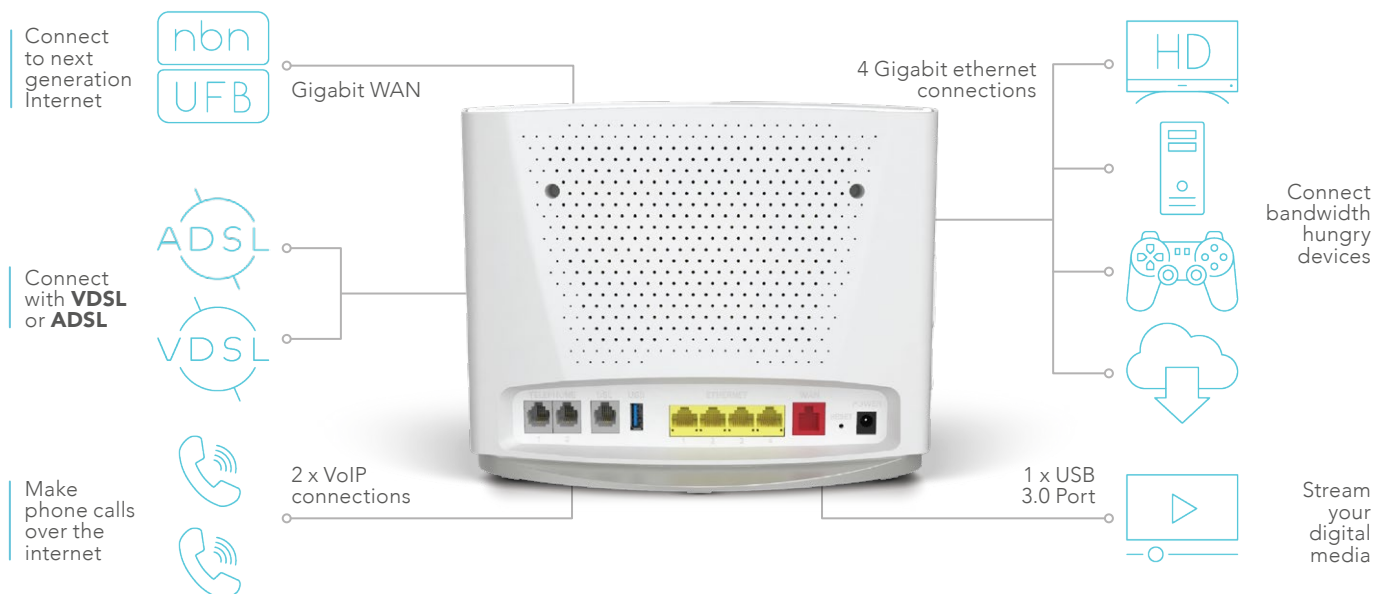
### WORKS WITH Wi-Fi ANALYTICS PLATFORM

The **CloudMesh Wi-Fi Analytics Platform** is a turnkey, CPE integrated, cost-effective solution that provides the ultimate visibility into the health of the subscriber's Wi-Fi home network.

It can dramatically lower operational costs and create superior end-user experiences. It does this by enabling proactive diagnostic, management and control of subscriberís home Wi-Fi environment, helping to resolve even the most elusive Wi-Fi problems.

Connect to next generation Internet

Gigabit WAN

4 Gigabit ethernet connections

Connect with **VDSL** or **ADSL**

Connect bandwidth hungry devices

Make phone calls over the internet

2 x VoIP connections

1 x USB 3.0 Port

Stream your digital media

**2.4GHz Wi-Fi**
Supports up to 574Mbps* Perfect for everyday online activities

**5GHz Wi-Fi**
Supports up to 1801Mbps* Perfect for HD video streaming and online gaming
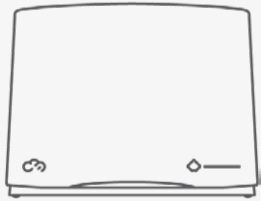
## PERFECT FOR

› ISPs who want to reduce number of Wi-Fi related support calls by using the self-adapting Wi-Fi Technology on the CPE gateway.

› ISPs who want end-to-end connection visibility and control using the Wi-Fi Analytics Platform.

› End-users who want to seamlessly expand their Wi-Fi network with CloudMesh Satellites.
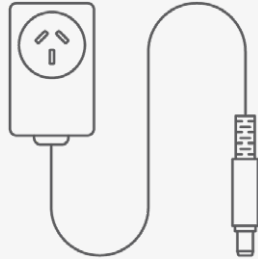
## FEATURES AT A GLANCE

› Mesh-enabled for seamless connection to CloudMesh Satellites

› Automated Wi-Fi issue resolution with Wi-Fi AutoPilot

› Gigabit connection to high-speed fibre networks

› Support for VDSL2/ ADSL2+ and Voice

› Wi-Fi visibility and assurance with the Wi-Fi Analytics Platform

*Maximum wireless signal rates refer to the theoretical speeds based on IEEE 802.11 standards. Actual wireless data speeds, coverage, and the number of connected devices may differ and are not guaranteed, as they depend on factors such as the internet service provider, network conditions, device capabilities, and environmental influences like building construction
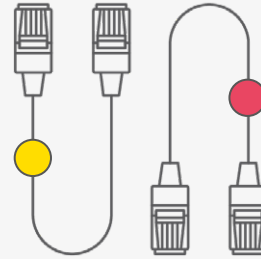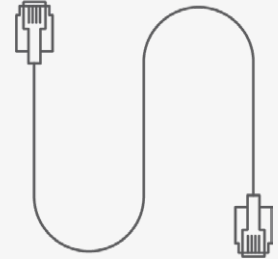
# WHAT'S
# IN THE BOX

1 x CloudMesh Gateway
(NF20MESH)

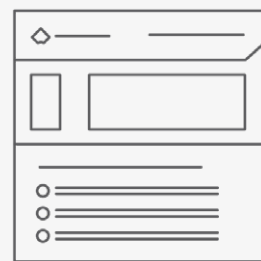1 x Power Adapter

2 x Ethernet Cables
(1m, RJ45)

1 x Phone Cable
(1m, RJ11)

1 x Warranty Card
1 x Privacy Statement

1 x Safety Information Leaflet

1 x Wi-Fi Security Card

## ENVIRONMENTAL AND PHYSICAL

› **Operating temperature**: 0 to 40°C
› **Operating humidity**: 10 to 95% non-condensing
› **Storage temperature**: -20 to 70°C
› **Storage humidity**: 5 to 95% non-condensing
› **DC Input Voltage**: 12V/2A
› **Dimensions**: 23(L) x 18(H) x 7(W) cm
› **Weight**: 555g

## DEVICE INTERFACE

› 4 x RJ45 10/100/1000Mbps LAN ports
› 1 x RJ45 10/100/1000Mbps WAN port
› 2 x RJ11 Phone ports (VoIP)
› 1 x RJ11 DSL port
› 1 x Reset button
› 1 x WPS button
› 1 x WLAN button
› 1 x Power jack
› 1 x USB 3.0 Port (storage)
› 1 x Power switch
› LED (Power/DSL/Internet/WAN/LAN1-4 /2.4GHz/5GHz/WPS/USB/ Phone1-2)

## VDSL

› PPPoE/PPPoA/IPoA/ Static IP / Dynamic IP/Bridge
› ITU-T G.993.2 VDSL2
› Supports 8a,8b,12a,12b,17a, 30a, 35b profile
› Supports ATM and PTM
› Supports G.INP

## ADSL2+

› PPPoE/PPPoA/IPoA/Static IP / Dynamic IP/Bridge
› ITU G.992.1 (G.dmt)
› ITU G.992.2 (G.lite)
› ITU G.992.3
› ITU G.992.3 (Annex J)
› ITU G.992.3 (Annex L)
› ITU G.992.5
› ITU G.992.5 (Annex M)
› ITU G.994.1 (G.hs)
› Supports multiple PVCs

## ETHERNET WAN

› PPPoE, DHCP client, Static IP

## WIRELESS

› Compatible with IEEE 802.11 a/b/g/n/ac/ax
› Supports concurrent dual band (2.4GHz/5GHz) wireless
› SSID broadcast or in stealth mode
› Auto Channel selection
› WPS button (Wi-Fi Protected Setup)

## VOIP PROTOCOL

› SIP2.0
› G.711, G.723 and G.726

## MEDIA

› File sharing
› DLNA

## SECURITY

› Firewall
› MAC filtering

## ROUTING

› Static Route
› Dynamic Route (RIP v1/v2)
› DMZ
› Supports Layer 2 Bridge Mode

## ADMINISTRATION

› QoS
› SNMP
› UPnP
› Syslog
› Web-based UI
› Remote Login
› TR-069 Auto provisioning
› Backup/Restore Settings

## COMPLIANCE

› RCM
› NZ Telepermit