

# THE ULTIMATE WIFI FIXER

## NF18MESH CLOUDMESH GATEWAY



CLOUD™  
MESH

Bring the new adaptive WiFi experience to your home with NF18MESH gateway



### MESH ENABLED

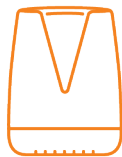
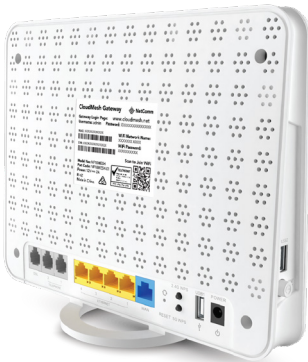
The **NF18MESH** is a **CloudMesh Gateway** that works wirelessly with the **NS-01 CloudMesh Satellite**, forming a single powerful Whole Home WiFi Mesh network with all the control and settings centralized on the gateway. The gateway becomes the WiFi Mesh master node and the WiFi client device roams seamlessly between satellites and the gateway.



### WIFI AUTOPILOT

Every **NF18MESH Gateway** includes the **CloudMesh WiFi AutoPilot**.

**WiFi Auto-Pilot** constantly scans and analyses the end-user WiFi environment. If any detrimental changes are detected, the AutoPilot adjusts the gateway's WiFi 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 WiFi client device is connected on the best possible channel, using the fastest available band, at the perfect RF power level and at the closest WiFi access point.



### 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**.

# KEY FEATURES CONT.



## MADE FOR NBN AND UFB

Featuring a Gigabit WAN port as well as **VDSL2/ADSL2** technologies, the **NF18MESH** will connect with FTTN, FTTB, FTTC and FTTH. The Gateway also features **VoIP** for HD quality voice calls with the capacity to connect two (2) phones.



## CLOUD ORCHESTRATION

To operate effectively, multiple WiFi access points within the same environment need a centralized point of coordination and control. This is done by the **WiFi Analytics Cloud**.

In addition to that, the Cloud is performing all the CPU intensive processing and is using sophisticated machine learning techniques to detect and recognize historical WiFi environment patterns to avoid future WiFi interference.



## WORKS WITH WIFI ANALYTICS PLATFORM

The **CloudMesh WiFi Analytics Platform** is a turnkey, CPE integrated, cost-effective solution that provides the ultimate visibility into the health of the subscriber's WiFi 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 subscriber's home WiFi environment, helping to resolve even the most elusive WiFi problems.



## PARENTAL CONTROL

Control access for each family member by restricting Internet access based on time of day.

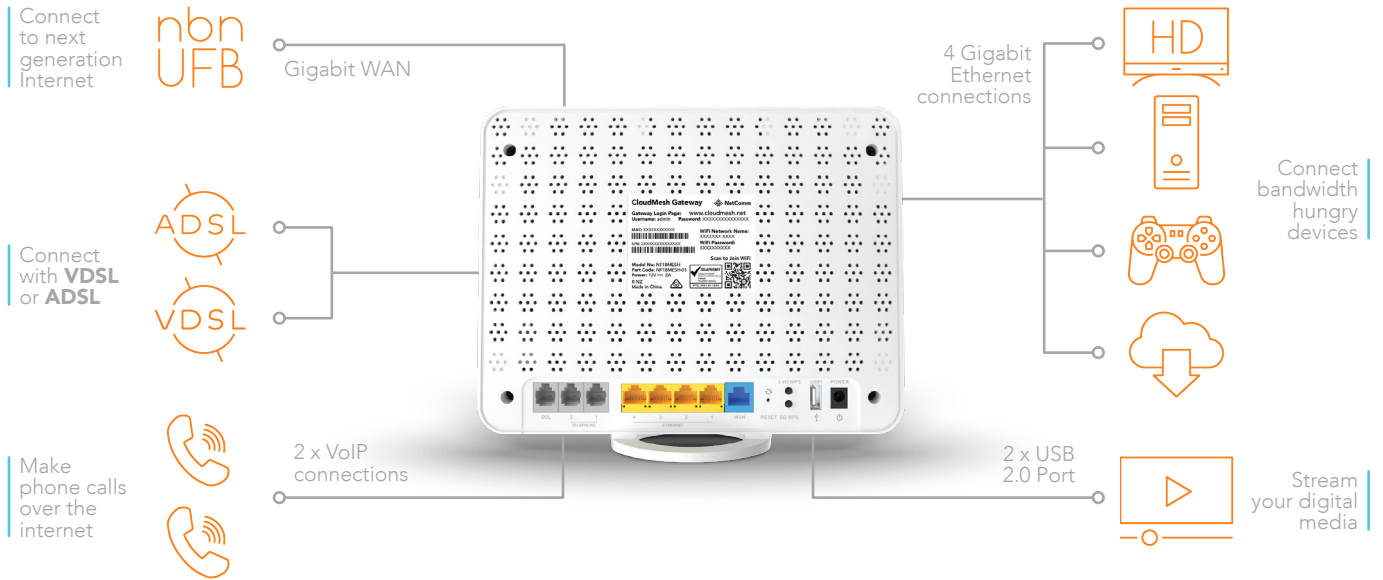


## INTUITIVE USER EXPERIENCE

A new user interface offers effortless navigation and greater visibility into the home network for an improved customer experience including features such as a Quick Start Wizard, and a map of connected devices helping end-users to identify connection issues faster and reduce the number and duration of calls to customer service.

The new web interface is smartphone friendly. End-users can scan the QR Code on the back of the gateway to join the WiFi network and access the web interface from any device using [cloudmesh.net](http://cloudmesh.net) URL.

# PRODUCT INTERFACES



**2.4GHz Wi-Fi**  
Perfect for everyday online activities

**5GHz Wi-Fi**  
Perfect for HD video streaming and online gaming

## PERFECT FOR

- › ISPs who want to reduce number of WiFi related support calls by using the self-adapting WiFi Technology on the CPE gateway.
- › ISPs who want end-to-end connection visibility and control using the WiFi Analytics Platform.
- › End-Users who want to seamlessly expand their WiFi network with CloudMesh Satellites.

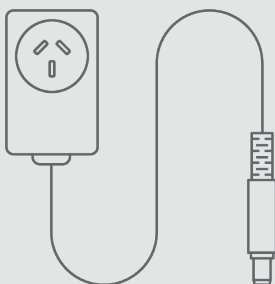
## FEATURES AT A GLANCE

- › Mesh Enabled for seamless connection to CloudMesh Satellites
- › Automated WiFi issue resolution with WiFi Auto Pilot
- › Gigabit connection to NBN and UFB fibre networks
- › Support for VDSL2/ ADSL2+ and Voice
- › WiFi visibility and assurance with the WiFi Analytics Platform

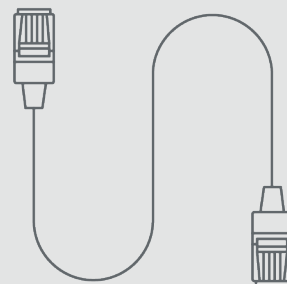
# WHAT'S IN THE BOX



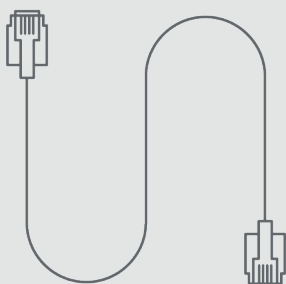
1 x NF18MESH  
CloudMesh Gateway



1 x Power Adapter



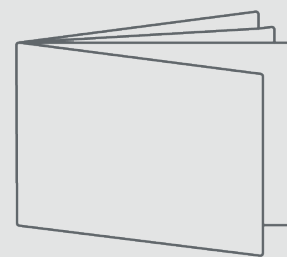
1 x Ethernet Cable  
(1.5m, RJ45)



1 x Phone Cable  
(1.5m, RJ11)



1 x Warranty Card



1 x Quick Start Guide

## TECHNICAL SPECIFICATIONS

### ENVIRONMENTAL AND PHYSICAL

- › Operating temperature: 0-40°C
- › Humidity: 10%-95% non-condensing
- › Storage temperature: -10-60°C
- › Humidity: 5%-95% non-condensing
- › DC Input Voltage: 12V/2A
- › Dimensions: 230 (w) x 200 (h) x 75 (d) mm
- › Weight: 558g

### DEVICE INTERFACE

- › 1 x RJ45 10/100/1000Mbps WAN port
- › 1 x ADSL / VDSL port
- › 4 x RJ45 10/100/1000Mbps LAN ports
- › 2 x RJ11 Phone ports (VoIP)
- › 1 x Reset button
- › 2 x WPS buttons (2.4GHz and 5GHz)
- › 1 x Power jack
- › 2 x USB 2.0 Ports (storage)
- › 1 x Power switch
- › LED (Power/DSL/Internet/WAN/LAN1-4/  
2.4GHz/5GHz/WPS/USB1-2/ Phone1-2)

### VDSL:

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

# TECHNICAL SPECIFICATIONS CONT.

## 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)
- › Supports multiple PVCs

## ETHERNET WAN

- › PPPoE, DHCP client, Static IP

## WIRELESS

- › Compatible with IEEE 802.11b, IEEE 802.11g, IEEE 802.11n and IEEE 802.11ac
- › Supports concurrent dual band (2.4GHz/5GHz) wireless
- › SSID broadcast or in stealth mode
- › Auto/Manual Channel selection
- › WEP/WPA/WPA-PSK/WPA2/WPA2-PSK
- › WPS button (WiFi Protected Setup)

## VoIP PROTOCOL

- › SIP2.0
- › G.711, G.723 and G.726
- › FAX T.38 FAX Relay

## MEDIA

- › File sharing (SAMBA v1 only)
- › 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

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NF18MESH\_R3

CLOUDMESH is a trademark of NetComm Wireless Pty Ltd. - On 1 July, 2019, NetComm Wireless was acquired by Casa Systems Inc., a Delaware company.



**NetComm**



**casa systems**

NetComm Wireless Limited was acquired by Casa Systems, Inc.  
**Casa Systems, the future of NetComm**

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