



# ENHANCED HYBRID MESH GATEWAY NL19MESH

Data Sheet

Bring the new adaptive Wi-Fi experience to your home with the **Hybrid CloudMesh Gateway**



## MESH ENABLED

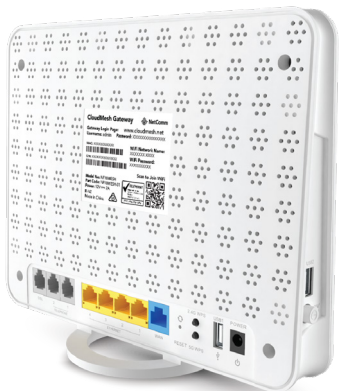
The **Hybrid CloudMesh Gateway** (NL19MESH) works wirelessly with the **CloudMesh Satellite** (NS-02), forming a single powerful Whole Home Wi-Fi Mesh network with all the control and settings centralized on the gateway. The gateway becomes the Wi-Fi Mesh master node and the Wi-Fi client device roams seamlessly between satellites and the gateway.



## WI-FI AUTOPILOT

Every **Hybrid CloudMesh Gateway** includes the **CloudMesh Wi-Fi Autopilot**.

**Wi-Fi Autopilot** constantly scans and analyses the end-user Wi-Fi environment. If any detrimental changes are detected, the **Autopilot** adjusts the gateway's 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.



## 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.



## 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 a subscriber's home Wi-Fi environment, helping to resolve even the most elusive Wi-Fi problems.



## 4G FALLBACK CONNECTIVITY

Benefit from hybrid technology to achieve an uninterrupted broadband experience from the very start. Equipped with a **4G LTE category 6** module, the **Hybrid CloudMesh Gateway** will connect to the mobile network allowing:

**4G mobile fallback connectivity** – If the fixed line service is interrupted the gateway will automatically switch to the **4G mobile network**. It will switch back to the fixed line service when that service resumes, guaranteeing continuity.

**Faster internet connection** – The **Hybrid CloudMesh Gateway** enables superfast internet access before the fixed line service is even activated, allowing end users to connect faster, without any waiting period.



## MADE FOR NBN AND UFB

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

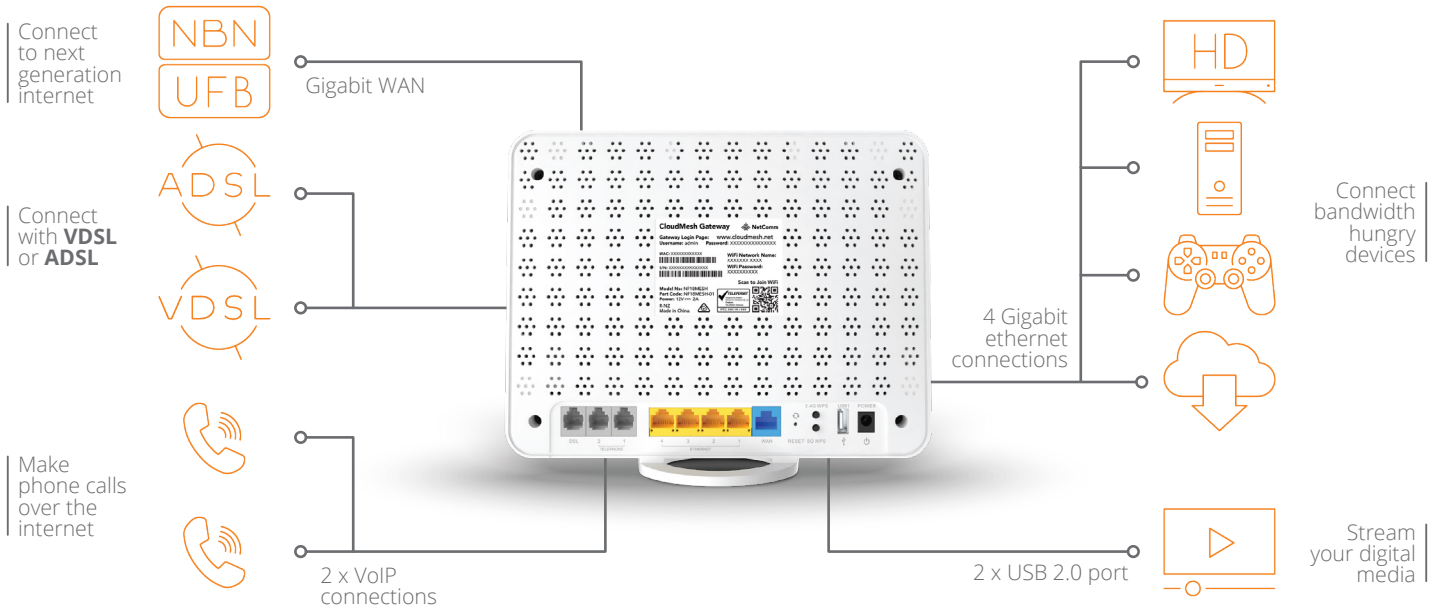


## CLOUD ORCHESTRATION

To operate effectively, multiple Wi-Fi access points within the same environment need a centralized point of coordination and control. This is done by the **Wi-Fi 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 Wi-Fi environment patterns to avoid future Wi-Fi interference.

# 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 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.

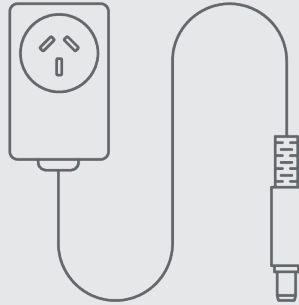
## FEATURES AT A GLANCE

- Mesh Enabled for seamless connection to CloudMesh Satellites
- Automated Wi-Fi issue resolution with Wi-Fi Autopilot
- Gigabit connection to NBN and UFB fibre networks
- 4G backup connection if fixed line goes down
- Support for VDSL2/ ADSL2+ and Voice
- Wi-Fi visibility and assurance with the Wi-Fi Analytics Platform

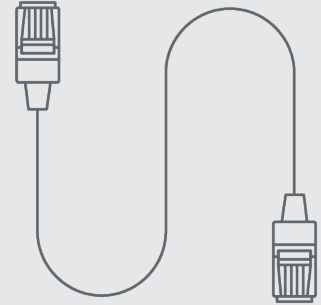
# WHAT'S IN THE BOX



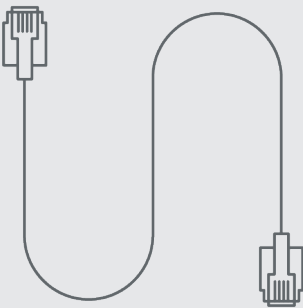
1 x Hybrid CloudMesh Gateway  
(NL19MESH)



1 x Power Adapter



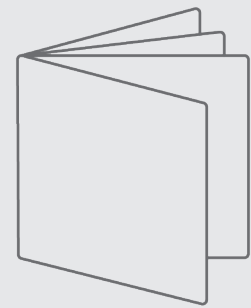
1 x Ethernet Cable  
(1.5m, RJ45)



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

## 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 (Wi-Fi Protected Setup)

## VoIP PROTOCOL

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

## 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

US

### HEAD OFFICE US

#### Casa Systems

100 Old River Road,  
Andover, MA 01810  
USA | +1 978 688 6706

AU

### AUSTRALIAN OFFICE

#### Casa Systems | Access Devices

18-20 Orion Road, Lane Cove  
NSW 2066, Sydney  
Australia | +61 2 9424 2070

W

[www.casa-systems.com](http://www.casa-systems.com)