



CLOUDMESH HYBRID GATEWAY

NL19MESH



Combine adaptive Wi-Fi experience with 4G/LTE Internet connection flexibility.



4G MOBILE BROADBAND CONNECTIVITY

The **CloudMesh Hybrid Gateway** includes a **4G/LTE** module, allowing for flexible connectivity, in addition to supporting fixed line connections.

Primary connection - Skip the fixed line installation altogether, insert a **SIM** card and be online immediately.

4G fallback - If a fixed line service is interrupted, the gateway can automatically switch to the **4G mobile network** and switch back to the fixed line service when it is restored.



WI-FI AUTOPILOT

Every **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 to improve the Internet connection experience. Its goal is to have every Wi-Fi client device connected on the best possible channel, using the fastest available band, at the perfect wireless power level and at the closest Wi-Fi access point.

KEY FEATURES CONT.



FLEXIBLE CONNECTION OPTIONS

Featuring a **Gigabit WAN** port, a **4G/LTE module** and **VDSL2/ADSL2+** technologies, the **CloudMesh Hybrid Gateway** can connect with **Mobile Broadband, FTTN, FTTB, FTTC** and **FTTH**. It also features **Voice over IP** for HD quality voice calls with the capacity to connect two (2) phones.



EASY PAIRING WITH CLOUDMESH SATELLITES

The **CloudMesh** system simplifies the configuring of the end user's gateway and satellite. ISPs are able to deliver a ready-to-use mesh system to their customers. A cloud portal and API provide flexibility to the ISP to pre-provision the devices. Alternatively, the end user can use the **WPS** buttons to simply and quickly pair their devices.



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.

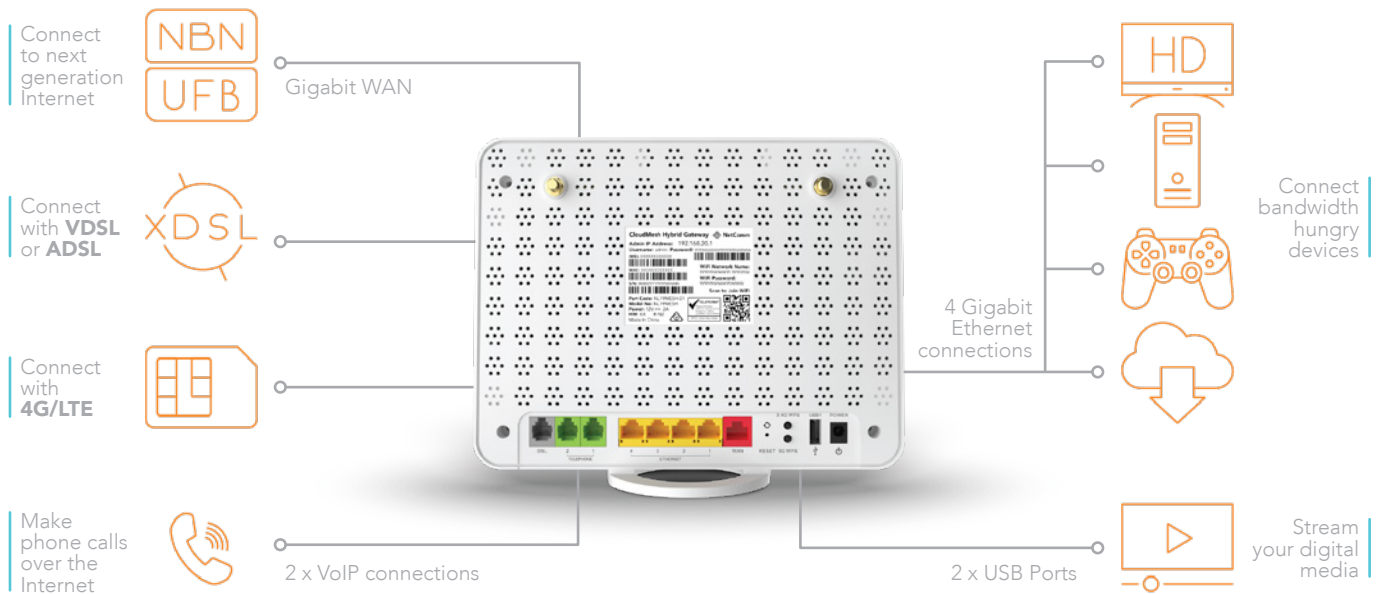
It can dramatically lower operational costs and create superior end-user experiences. It does this by enabling proactive diagnostic, management and control of a subscriber's home Wi-Fi environment, helping to resolve even the most elusive Wi-Fi problems.



EDGE PROCESSING

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

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.

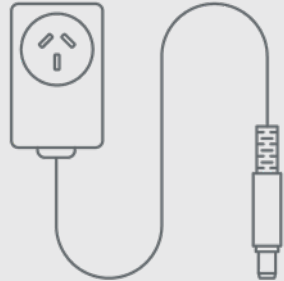
FEATURES AT A GLANCE

- › Mobile Broadband connection for service flexibility
- › 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
- › Support for VDSL2/ ADSL2+ and Voice
- › Wi-Fi visibility and assurance with the Wi-Fi Analytics Platform

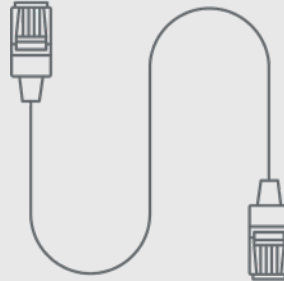
WHAT'S IN THE BOX



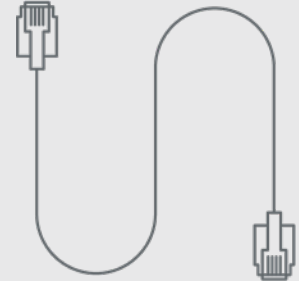
1 x CloudMesh Hybrid Gateway (NL19MESH)



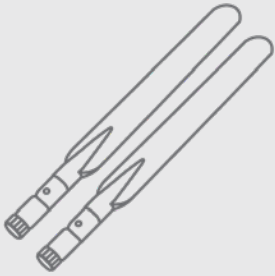
1 x Power Adapter



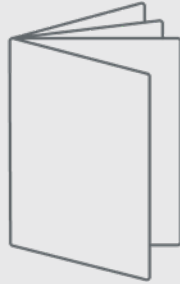
1 x Ethernet Cable (1.5m, RJ45)



1 x Phone Cable (1.5m, RJ11)



2 x 4G/LTE Antennas



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 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

MOBILE BANDS SUPPORTED

AUSTRALIA		
NETWORK	3G	4G
OPTUS	› 900MHz (B8) › 2100MHz (B1)*	› 700MHz (B28) › 1800MHz (B3) › 2100MHz (B1) › 2300MHz (B40) › 2600MHz (B7)
TELSTRA	› 850MHz (B5)	› 700MHz (B28) › 900MHz (B8) › 1800MHz (B3) › 2100MHz (B1) › 2600MHz (B7)
VODAFONE	› 900MHz (B8)	› 850MHz (B5) › 1800MHz (B3) › 2100MHz (B1)

NEW ZEALAND		
NETWORK	3G	4G
2DEGREES	› 2100MHz (B1)	› 1800MHz (B3)
SPARK	› 850MHz (B5) › 2100MHz (B1)	› 700MHz (B28) › 1800MHz (B3)
VODAFONE	› 900MHz (B8) › 2100MHz (B1)	› 700MHz (B28) › 1800MHz (B3)

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NL19MESH Spec Sheet Rev1



NetComm Wireless Limited is now a part of Casa Systems, Inc.
Casa Systems, the future of NetComm



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