CLOUDMESH
HYBRID GATEWAY
NL19MESH

Data Sheet

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

MESH ENABLED

The **CloudMesh Hybrid Gateway** (NL19MESH) works wirelessly with the **CloudMesh Satellite** (NS-01), 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.
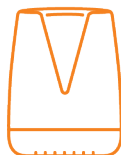
WI-FI AUTOPILOT

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.

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 undisrupted broadband experience from the very start. Equipped with a **4G LTE category 6** module, the **CloudMesh Hybrid 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 CloudMesh Hybrid 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 **CloudMesh Hybrid Gateway** 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.
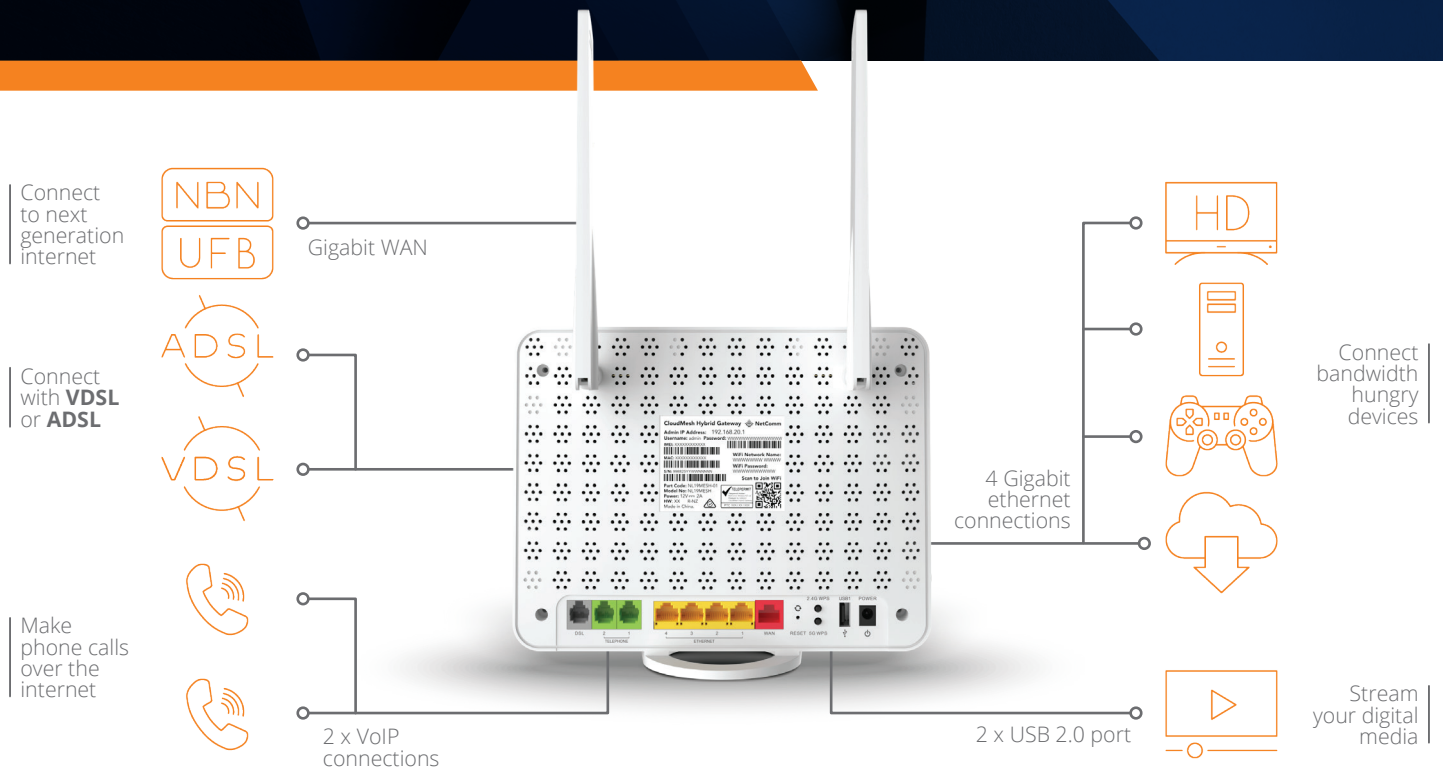
CLOUD ORCHESTRATION

To operate effectively, multiple 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.

Connect to next generation internet

NBN
UFB

Gigabit WAN

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

ADSL

VDSL

Make phone calls over the internet

2 x VoIP connections

HD

Connect bandwidth hungry devices

4 Gigabit ethernet connections

2 x USB 2.0 port

Stream your digital media

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.
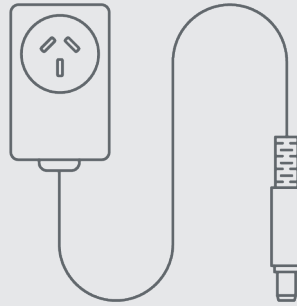– End-Users who want to seamlessly expand their Wi-Fi network with CloudMesh Satellites.

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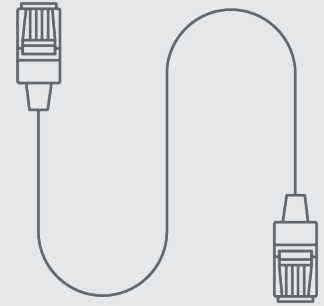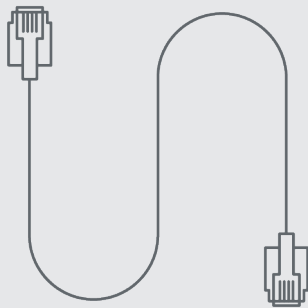· Wi-Fi visibility and assurance with the Wi-Fi Analytics Platform

1 x CloudMesh Hybrid Gateway
(NL19MESH)

1 x Power Adapter

1 x Ethernet Cable
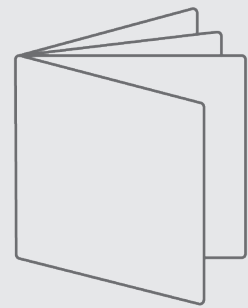(1.5m, RJ45)

1 x Phone Cable
(1.5m, RJ11)

1 x Warranty Card

1 x Quick Start Guide

WARRANTY

Specifications subject to change

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