



# CLOUDMESH SATELLITE

NS-01



## Expand your network one unit at a time.

The **NS-01 CloudMesh Satellite** works wirelessly with a **CloudMesh Gateway**, forming a single powerful Whole Home Wi-Fi Mesh network coverage.



### Wi-Fi AUTOPILOT

Every **NS-01 Satellite** includes the **CloudMesh Wi-Fi AutoPilot**.

The **Wi-Fi AutoPilot** constantly scans and analyses the end-user Wi-Fi environment. If any detrimental changes are detected, the AutoPilot adjusts the Satellite'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.



### WORKS WITH AN EXISTING FLEET\*

The **CloudMesh Satellite** will work wirelessly with the **NF18MESH**, **NL1901ACV\*** and other **NetComm gateways\***, forming a single powerful Whole Home Wi-Fi Mesh coverage with all the control and settings centralized on the existing 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 Link firmware update is required for all non-CloudMesh products. Some NetComm gateways may not be compatible.



# KEY FEATURES CONT.



## 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.



## SEAMLESS DEPLOYMENT

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.



## IMPROVED CUSTOMER EXPERIENCE

The **CloudMesh NS-01 Satellite** is a user-friendly device designed for an enhanced customer experience. It's developed to minimize common Wi-Fi problems starting from the device placement to various Wi-Fi interferences. Intelligent software inside paired with easy-to-understand LED lights will help end-users choose the optimal position for the best Wi-Fi performance.



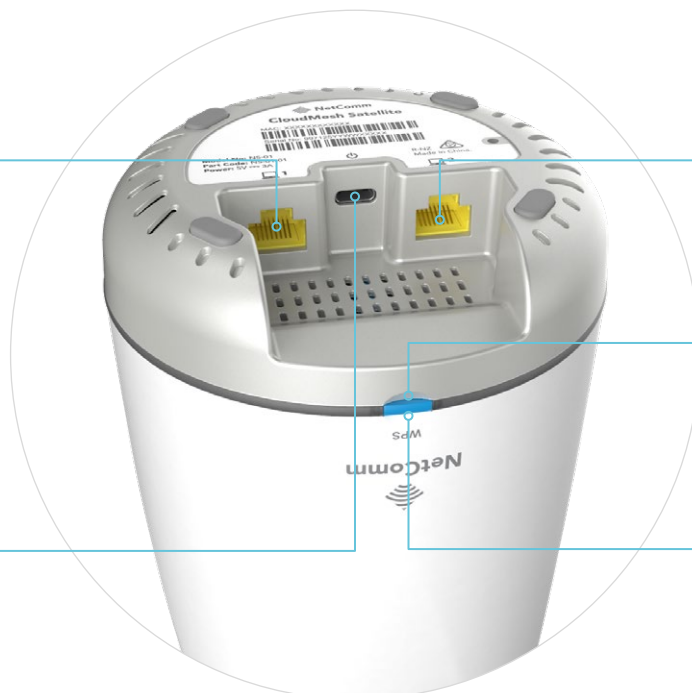
Ethernet  
Port 1

Power  
Connector

Ethernet  
Port 2

LED Light  
Off/On

WPS  
Button



# PRODUCT INTERFACES



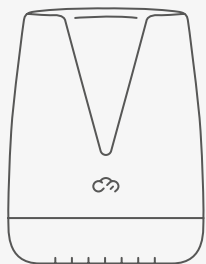
## PERFECT FOR

- › ISPs looking to provide a cost-effective, fully integrated Wi-Fi Mesh solution with full control and visibility of all access points to their new and existing customers
- › ISPs who want to reduce number of Wi-Fi related support calls, using self-adapting Wi-Fi Technology on the Wi-Fi Mesh Satellites.
- › End-users living in larger units / houses searching for a seamless whole-home network solution to improve Wi-Fi coverage.

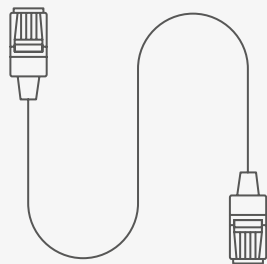
## FEATURES AT A GLANCE

- › Automated Wi-Fi issue resolution with Wi-Fi Auto Pilot
- › Seamless connection with a CloudMesh Gateway
- › CloudMesh for Wi-Fi Analytics and Troubleshooting
- › LED light bar for indicating the optimal placement of each satellite
- › 2x Gigabit Ports for versatile connectivity
- › Vertical PCB and Antenna design for increased Wi-Fi coverage and cooling
- › Qualcomm-based chipset for powerful Wi-Fi
- › Zero-touch setup, Cloud Orchestration and Seamless Wi-Fi Client Roaming for best user experience

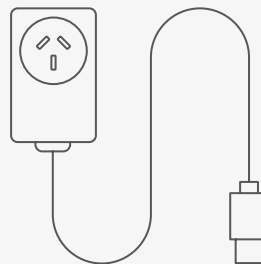
# WHAT'S IN THE BOX



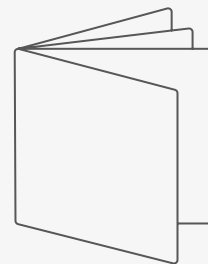
1 x NS-01  
CloudMesh Satellite



1 x Ethernet Cable



1 x USB-C Power Adapter



1 x Quick Start Guide

## TECHNICAL SPECIFICATIONS

### WIRELESS NETWORK

- › IEEE 802.11 ac/n/g/a

### WIRED NETWORK

- › 2 x Auto-sensing Gigabit LAN ports

### DIMENSIONS (L X W X H)

- › 113 (w) x 145 (h) x 110 (d) mm

### WEIGHT (PER UNIT)

- › 320g

### POWER INPUT

- › 100 V to 240 V/AC, 50/60 Hz

### TEMPERATURE

- › Operating Temperature Range:  
0 to 40 °C
- › Storage Temperature Range:  
-20 to 70 °C (-4 to 158 °F)

### HUMIDITY

- › Operating Humidity Range:  
10% to 90% non-condensing
- › Storage Humidity Range:  
5% to 90% non-condensing

### PART NUMBER

- › NS-01-01

NetComm NS-01 Spec Sheet Rev 2

Trademarks and registered trademarks are the property of NetComm Wireless Pty Ltd or their respective owners.  
Specifications are subject to change without notice. Images shown may vary slightly from the actual product.



**NETCOMM**  
HEAD OFFICE | SYDNEY  
18-20 Orion Road Lane Cove NSW 2066  
Sydney | Australia | +61 2 9424 2070  
[www.netcomm.com](http://www.netcomm.com)



**ZHONE**  
HEAD OFFICE | USA  
5700 Tennyson Pkwy  
Suite 400, Plano, TX 75024  
Texas | USA | +1 877-946-6320  
[www.zhone.com](http://www.zhone.com)



**NetComm**  
a division of zhone