

Una™ Meshed Wi-Fi System



Features

- IEEE 2x2 802.11n/ac, Dual Band, Dual Concurrent, Meshed Wi-Fi Wave 2 System
- MU-MIMO Simultaneous Data Streaming On Multiple Devices
- Implicit/Explicit Beamforming 2.4 & 5GHz Bands
- Legacy Multi-AP Coordinated Steering
- Dynamic Frequency Selection
- Dynamic Channel Selection
- ITU-T G.hn G.9963 MIMO
- 10/100/1000 Ethernet Interface

Una is an intelligent self managing dual band, dual concurrent, MU-MIMO, 2x2 802.11n and 2x2 802.11ac hybrid meshed wireless distributed networking system that features both Wi-Fi Wave-2 and Powerline technologies.

Una wireless Access Point's (AP) allow you to create a meshed Wi-Fi system or extend your existing Wi-Fi network. Simply plug Una directly into an electrical outlet in an area that has poor or no Wi-Fi coverage to resolve Wi-Fi dead zones. It is ideal for difficult to reach areas such as basements, upstairs bedrooms, remote workshops and outdoor areas. Multiple Una's can be used to cover a larger house.

Self-Managing

Una's dynamic band steering and multi-AP coordination determines the best possible Wi-Fi connection and optimal performance for each attached device. Una optimizes network capacity by reducing network congestion and auto-selecting the fastest available connection for each device. Una knows which devices are connected and autonomously manages those connections by forwarding traffic to the appropriate AP or frequency band depending on the type of content and distance from the AP. Seamless roaming ensures that the appropriate bandwidth is available when and where it's needed, whether it's transferring a file, streaming UHD/4K video or web browsing.

Powerline Backhaul

Una provides ultra-reliable coverage and performance, due to its use of G.hn Powerline backhaul as the communication backbone between meshed Unas. Una's Powerline backhaul technology overcomes the coverage limitations of conventional wireless meshed network systems which use separate wireless radios to communicate between other meshed Wi-Fi APs. The integration of Wi-Fi and Powerline backhaul working in unison provides better Wi-Fi and Ethernet coverage for the whole home with seamless roaming over a single network.

Security

The wireless and Powerline data is secure, thanks to WPA2-PSK encryption for wireless data and 128-bit AES encryption for the Powerline data.

Easy Setup

Push-button security configuration creates a private secure Powerline network. Self configuring, Una automatically performs a topology discovery to locate and authenticate other Una's on the Powerline network. It then performs an auto synchronization of the Wi-Fi parameters.

Consumers no longer have to choose between the flexibility of wireless and the performance of wires for whole home networking. Una provides constant connectivity without blind spots in all possible configurations of homes.

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Technical Specifications

Standards

- IEEE 802.11b/g/n/ac
- IEEE 802.11k, 802.11v
- IEEE 1905.1
- IEEE 802.3ab
- ITU-T G.hn G.9963

Performance & Frequency

- Wi-Fi: AC1200 PHY
- 2.4 GHz & 5 GHz Concurrent
- Distance: 1,500sq ft (457m)
- Powerline: 1.5 GB PHY
- 2 to 80 MHz
- Distance: 1,000ft (305m)

Interface

- 1 x NEMA 5 120V AC
- 1 x RJ-45 10/100/1000Base-T
- 1 x Secure pairing push button & reset to factory defaults

Package Contents

- 1 x Una
- Dimensions: H 4.7" x W 2.5" x D 1.7" (120mm x 65mm x 43mm)
- Weight: 0.88 lb (400g)
- 1 x Ethernet Cable (6 ft, 183 cm)
- 1 x Quick Start Guide

Quality of Service

- Wi-Fi Multimedia
- 8 levels of Powerline packet-prioritized QoS
- IPv4 IGMP snooping & IPv6 MLD control

Hardware

- Qualcomm Cortex quad-core A7 processor with WLAN radios
- Maxlinear Powerline network transceiver & AFE

LED Indicators

- 1 x Powerline
- 1 x Ethernet
- 1 x Wi-Fi

Regulatory Compliance

- cUL 60950
- UL 2043
- FCC Part 15 Class B
- CE IEC 60950-1
- RoHS
- IP20 dust & water

Modulation

- TDMA channel access scheme
- OFDM symbol modulation on line synchronization
- 1024/256/64/16/8 - QAM, QPSK, BPSK, ROBO carrier modulation

Security

- Wi-Fi: WPA2-PSK
- Powerline: 128-bit AES CCMP encryption with key management

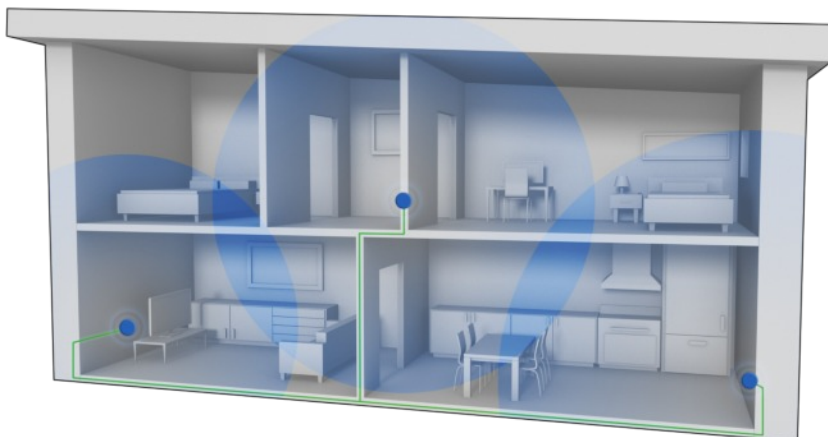
Network Management

- TR-069 (v3.2 software required)
- Embedded Graphical User Interface
- HomeMesh app available on Android Play and Apple App Stores

Environmental

- Operating Temperature: -5°C ~ +45°C
- Storage Temperature: -20°C to +85°C
- Humidity: 5% to 95% non-condensing & 86kPa~106kPa altitude
- Power Input: 100 ~ 240V @ 50/60Hz

Corner to corner wired and wireless coverage for your entire home with seamless roaming over a single network. Using industry standards, Una integrates Wi-Fi and Powerline technologies working in unison to eliminate dead spots and ensure faster connectivity for total home network coverage.



HomeMesh App

