



MeshAP™ 1100

Indoor

2.4GHz Full-Duplex

Wi-Fi Mesh Network

Access Point

Reliable, Intelligent, High Performance Mesh Network

- Patent pending, auto-discovery, auto-configure, and auto-healing POP (Predictable Optimum Path) mesh routing algorithm
- Multiple wireless path design for both backhaul and user traffic eliminates adjacent AP signal interference and provides zero performance degradation
- Best network throughput via layer 2 fast switching and bridging from AP to AP to support real time video, voice, and data applications

Fully Compatible with Existing Access Servers, Routers, and Gateways

- Transparent to layer 3 and up protocols, fully compatible with existing network equipment
- Directly connects to existing Routers, Gateways, or APs through 10/100 Ethernet

Management and Security

- Supports Web Based browser
- Supports WEP encryption security across wireless mesh network
- Mesh network protection with user defined operator ID and network ID



Converting Hotspots to Hotzones is the best way to increase Wi-Fi service revenue by reaching more subscribers with minimum capital investment and operating cost. ArrowSpan's MeshAP 1100 extends hotspot coverage using wireless mesh technology with plug-n-play easy installation.

A Mesh Link is a true wireless connection between any two MeshAP units. ArrowSpan's MeshAP 1100 automatically discovers its neighboring MeshAP(s) 1100 and interconnects all the MeshAPs together to form a large coverage wireless network.

MeshAP 1100 implements Layer 2 mesh routing which provides excellent network performance and is fully compatible with existing network equipment and applications. The MeshAP 1100 is able to support high-bandwidth and low latency applications like real-time video and voice.

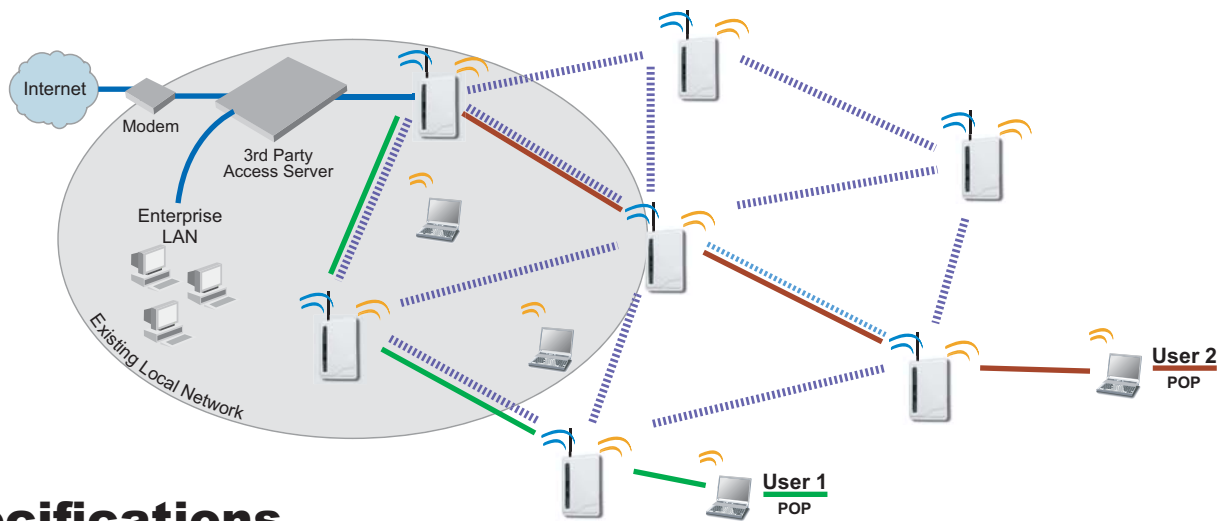
Predictable Optimum Path (POP) routing algorithm creates a MeshAP 1100 based Wi-Fi mesh network with the best throughput, reliable mesh link, and auto-discovery/auto-configuration/auto-healing benefits. The algorithm's human-like intelligence, examines the network and makes appropriate connections among MeshAPs in real time. The algorithm also re-establishes a new network when obstacles, individual node problems, new nodes or internet access events occur.

High throughput Mesh Network is achieved by a non-blocking and no-interference design for client and backhaul traffic. The MeshAP 1100 multi-radio and multi-channel architecture eliminates wireless signal interference and traffic conflict problems that exist on many other mesh network products.

The web-based management interface enables both professional and non-technical users to easily handle network management and maintenance tasks for the MeshAP units. The "Point and Click" browser interface permits users to monitor node condition, link quality, traffic flow, and event logs of the MeshAP units on the mesh network. The web-based Topology function also allows Network administrators to easily configure, update, and monitor every MeshAP station on the mesh network.

MeshAP 1100 is highly secured through full support of wireless WEP encryption on both backhaul and user traffic. The multi-level administration password control provides MeshAP users with the highest security guard for all services and applications.

MeshAP™ 1100



Specifications

Wireless

Standards IEEE802.11b, 802.11g
Media Access Protocol CSMA/CA with ACK
Frequency 2.4GHz ISM radio band

Modulation
802.11g OFDM
802.11b CCK(11, 5.5MHz), DOPSK(2Mbps), DQPSK(1Mbps)

Data Rates
802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
802.11b: 1, 2, 5.5, 11Mbps

Tx Power
802.11g: typical 14dBm (25mW)
802.11b: typical 17dBm (50mW)

Receive Sensitivity
802.11g: typical -86dBm at 54Mbps
802.11b: typical -68dBm at 11Mbps

Channels
802.11g: USA, Canada: 11
Most European countries: 13
Japan: 14
802.11b: USA, Canada, Taiwan: 11
Most European countries: 13
France: 4
Japan: 14

Antenna
(1) Built-in 4dbi omnidirectional antenna
(1) Detachable SMA 4dbi omnidirectional antenna

Operating Range
Open Space ~ 600ft(182m), Indoor ~ 300ft(91m)
(Transmission speed may vary according to the environment)

Mesh Network Performance

Packet Forwarding latency at each node: typical 1 ms

Encryption & Security

64bit, 128bit WEP encryption (Hardware Accelerated)
Mesh operator username/password
Mesh ID protection
RESET button to factory default

Network Management

HTML Web based Management

Hardware Specifications

Indicators LEDs

PWR - Power
WAN - WAN Ethernet port link and activity
WLAN - Access Point activity
MESH - link and activity of upward Mesh link
EXCEL - Mesh Link is connected at 54Mbps - 48Mbps
GOOD - Mesh Link is connected at 36Mbps - 24Mbps

Network Ports

(1) 10/100Mbps auto crossover Ethernet WAN Port
(For connecting to Router or Gateway)
IEEE 802.3, 802.3u compliant

Power

Power Interface: IEEE 802.3af compliant POE
Voltage Input: 36 to 60VDC
Power Consumption(MAX): 8 watts

Environmental Conditions

Operating Temperature: 32°F to 113°F(0°C to 45°C)
Storage Temperature: 14°F to 158°F (-10°C to 70°C)
Humidity: 95% maximum relative humidity, non-condensing

Physical Specifications

Dimension: 29cm x 17.3cm x 3.5cm
Weight: 1.2lb (0.5kg)

Regulatory Compliance

Certification: FCC Part 15

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