WMAP AP1000

Wireless mesh networks, an emerging technology, may bring the dream of a seamlessly connected world into reality.

Wireless mesh networks can easily, effectively and wirelessly connect entire cities using inexpensive, existing technology. Traditional networks rely on a small number of wired access points or wireless hotspots to connect users. In a wireless mesh network, the network connection is spread out among dozens or even hundreds of wireless mesh nodes that "talk" to each other to share the network connection across a large area.

Mesh nodes are small radio transmitters that function in the same way as a wireless router. Nodes use the common WiFi standards known as 802.11a, b and g to communicate wirelessly with users, and, more importantly, with each other.

The biggest advantage of wireless mesh networks -- as opposed to wired or fixed wireless networks -- is that they are truly wireless. Most traditional "wireless" access points still need to be wired to the Internet to broadcast their signal.

### MAIN FEATURES

- **Wireless Interfaces**
  - Dual Radio 2x2 MIMO Design
  - Wireless Quality of Service (WMM)
- **Radio 2.4Ghz**
  - Wireless Standard: IEEE 802.11b, 802.11g, 802.11n
  - 40Mhz Channel width support
  - Supported Channel range: 2.412Ghz ~ 2.462Ghz (NA), 2.412Ghz ~ 2.472Ghz (EU), 2.412Ghz ~ 2.484Ghz (Japan)
- **Radio 5Ghz**
  - Wireless Standard: IEEE 802.11a, IEEE 802.11n
  - 40Mhz Channel width support

- **Transmit Power Control**: IEEE 802.11h TPC
- **Multi-Country Roaming**: IEEE 802.11d
- **Transmission Power**: 26dBm @ MCS0
- **Receiver Sensitivity**: -94dBm @ MCS0
- **Antenna Gain**: two 9dBi omnidirectional
- **Max Data Rate**: 300Mbit @ MCS15

- **Supported Channel range**: 5.150 ~ 5.30Ghz, 5.470 ~ 5.725Ghz, 5.725 ~ 5.850Ghz (NA)

- **Dynamic Frequency Selection (DFS)**
- **Transmission Power Control**: IEEE 802.11h TPC
- **Multi-Country Roaming**: IEEE 802.11d
- **Transmission Power**: 26dBm @ MCS0
- **Receiver Sensitivity**: -97dBm @ MCS0
- **Antenna Gain**: two 7dBi omnidirectional
- **Max Data Rate**: 300Mbit @ MCS15

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**Note**: Preliminary Specifications items may be subject to change
## MAIN SPECIFICATIONS

- **Model**: AP1000  
  Chassis: Aluminum Indoor/Outdoor  
  Mounting: Pole Mount / Wall Mount Option  
  Operating Temperature: -10°C to +60°C

- **Dimensions**  
  Height: 9.5 inches (w/o antenna), 27 inches (with antenna)  
  Width: 11.75 inches  
  Depth: 2 inches  
  Weight: 4.2Lbs (w/o antenna), 5Lbs (with antenna)

- **Power Supply**  
  Passive PoE

- **Software**  
  ImageStream Opuntia Linux  
  Powerful Web Interface and CLI  
  Local and Remote logging  
  Real-time Monitoring  
  Quality of Service (QoS)  
  Packet Filtering  
  Port Forwarding  
  Network Address Translation  
  Dynamic DNS  
  Upnp Automatic Port forwarding  
  SNMP Accounting  
  Stateful Firewalling (1:1 & 1:many)  
  NTP Synchronization  
  Multi-Wan  
  Secure Remote Access (SSH v.2)  
  System Scheduler  
  Dynamic Routing support:  
  - Rip  
  - OSPFv2  
  - BGP (40,000 installed routes)  
  - DHCP Server and Client  
  - IPv6 RA and DHCPv6  
  - SIIT (RFC2765)  
  - IPSec & OpenVPN VPNs

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[Image of the WiFi Mesh Access Point]

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