Wi2 offers the ultimate IP wireless broadband solution for a variety of applications and services – anytime, anywhere.

Wi2 provides the best of both worlds:
- Easy-to-deploy outdoor Wi-Fi mesh access solution integrated with built-in management and OSS support
- Readiness for immediate connection with the robust QoS capabilities of a BreezeMAX/BreezeACCESS backhauling network providing Personal Broadband services

Services delivered with Wi2 range from basic public Internet access to public safety, traffic management, video surveillance, indoor coverage and other advanced voice, video and mobile applications.
Deploy mesh networks easily and cost effectively
Answering the need for outdoor Wi-Fi connectivity, Wi² offers localized mesh networks with a Wi-Fi AP-rich feature set. Furthermore, it enables immediate connection with WiMAX star backhauling networks. This results in a high performance, low complexity, easy-to-deploy network, which can be easily tailored to specific operational and budget demands. Consequently, Wi² enables operators to work according to their specific needs and enjoy mesh benefits such as self-healing and lower network costs while still maintaining a robust, simple and high QoS network.

Integrate a complete, robust end-to-end solution
Wi² offers a wide range of important features. These include extensive network management with detailed statistics and diagnostics capabilities for easy evaluation of network performance and behavior; embedded OSS abilities with RADIUS servers, captive portals and accounting information; self-healing; powerful QoS for voice and video support; and extensive security features.

Increase revenue with multiple application network support
Deliver a variety of independent services through the simultaneous operation of up to 16 different virtual networks (16 SSIDs) on the same infrastructure. Each network retains unique QoS, security, authentication, guest access services, management attributes and billing rates, allowing for revenue generation according to customer service level agreements (SLAs).
**Wi² system components**

**Wi²**
- Ruggedized solution which connects to all Alvarion outdoor CPEs, irrespective of frequency
- Deployment - outdoor
- Supports Wi-Fi AP 802.11b/g, WiMAX connectivity, security and QoS

**Wi2 Extender**
- Extends Wi-Fi network, uses the same Wi2 AP (software and hardware), and includes indoor unit (IDU) for power and connectivity
- Deployment - outdoor
- Supports Wi-Fi AP 802.11b/g, security and QoS

**Wi2 Controller (optional)**
- Centralized network management and control (recommended for all deployments), with optional mobility support
- Deployment - NOC
- Supports security, QoS, OSS, mobility, plug and play installation and network management (for all APs)

**Wi2 NMS (optional)**
- Manages all controllers in network and provides additional alerts and statistical information
- Deployment - NOC
- Supports network management (also for controllers)
## Specifications

### Wi-Fi Access Point Specifications

<table>
<thead>
<tr>
<th>Data Rates</th>
<th>6 Mbps</th>
<th>9 Mbps</th>
<th>12 Mbps</th>
<th>18 Mbps</th>
<th>24 Mbps</th>
<th>36 Mbps</th>
<th>48 Mbps</th>
<th>54 Mbps</th>
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<tbody>
<tr>
<td>802.11g</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>19</td>
<td>19</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>RX sensitivity</td>
<td>-95</td>
<td>-93</td>
<td>-87</td>
<td>-84</td>
<td>-80</td>
<td>-77</td>
<td>-73</td>
<td>-70</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>TX Power and RX Sensitivity</th>
<th>1 Mbps</th>
<th>2 Mbps</th>
<th>5.5 Mbps</th>
<th>11 Mbps</th>
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</thead>
<tbody>
<tr>
<td>802.11b</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>RX sensitivity</td>
<td>-111</td>
<td>-102</td>
<td>-92</td>
<td>-91</td>
</tr>
</tbody>
</table>

### Software Features

**Access Control**
- Integrated HTML login/captive portal
- Integrated RADIUS authentication
- Configurable min./max. connect speed

**Centralized Management**
- Full play and AP configuration, upgrade and control
- Centralized system monitor for thousands of APs
- Full, secure GUI configuration and monitoring

**Management**
- SNMP, CLI, web-based
- Selectable RF channel and transmit power
- Packet capture on WLAN or LAN interface (diagnostics)

**Multiservice**
- Support for 16 virtual networks, hidden and broadcast SSIDs
- Unique SSID, Mac address, authentication, encryption, VLANs and QoS

**Cisco**
- Per-user bandwidth management
- User account profiles using embedded/external AAA
- Full virtual AP configuration, including authentication, DTIM, QoS

**Mobility**
- Full voice quality L2 and L3 mobility for clients roaming between APs
- Service transparency through fast roaming and handovers
- Option 82, Rogue AP detection

- DHCP: Server; Client; Relay
- Layer-2 wireless client isolation
- Wireless MAC/IP filter, NAT, CIDR
- Layer-2 wireless client isolation
- DHCP: Server; Client; Relay
- Option 82, Rogue AP detection

- SNMP, XML
- SSH/SSL, IPSec encapsulated
- Mesh (DWDS), self-healing, self-optimizing

- Security
- 802.1x, AES, WPA2, Radius, WEP
- Firewall
- SSH/SSL, IPSec encapsulated
- SMNP, XML
- Wireless MAC/IP filter, NAT, CIDR
- Layer-2 wireless client isolation
- DHCP: Server; Client; Relay
- Option 82, Rogue AP detection

### Physical Dimensions

- **Size**: (H x W x D) 32.9 x 27.8 x 21.1 cm (13.0 x 11.0 x 8.3 in)
- **Weight**: 7.0 kg (15.4 lbs)
- **Temperature**: Operating: -40 to 60°C (-40 to 140°F)
- **Storage**: -55 to 80°C (-67 to 176°F)
- **Humidity**: 5 to 95% (non-condensing)

### EMC Compliance

- **Class B**: FCC
- **Class C**: FCC
- **Class D**: RTTE 1999/5/EC
- **Class E**: RTTE 1999/5/EC
- **Class F**: RTTE 1999/5/EC

### Antenna Specifications

- 8 dBi Omni directional (2.4-2.5 GHz)

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* For backhaul specifications, please see BreezeMAX or BreezeACCESS VL documentation, as appropriate.
* For further information, please contact your local Alvarion sales representative.