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## Specifications

### Radio and Modem

|                              |   |  |
|------------------------------|---|--|
| Frequency                    | 4.900-5.875 GHz multi-band with automatic band and frequency detection in SU-EZ |  |
| Media Access                 | Time Division Duplex (TDD)  |  |
| Channel Bandwidth            | 20 MHz  |  |
| Radio Technology             | Orthogonal Frequency Division Multiplexing (OFDM)                               |  |
| Max Throughput/Capacity      | <b>Subscriber Unit EZ</b>   | <b>Access Unit EZ</b>  |
|                              | 12 Mbps full duplex   | 23 Mbps aggregated capacity  |
| Max Tx. Power @ Antenna Port | 18dBm   | 21dBm  |
| Antenna                      | Integrated Flat Panel Antenna, 17dBi, 24°AZ x 18°EL                             | Choice of Detached Antennas:<br>• 16dBi, 60°AZ x 10°EL<br>• 17dBi, 90°AZ x 6°EL<br>• 15dBi, 120°AZ x 6°EL<br>• Omni 8dBi, 360°AZ x 4.5°EL*<br>*Not available for 5.4/5.3 FCC |
| Sensitivity Range            | From -86dBm @ 6Mbps to -68dBm @ 54 Mbps   | From -89dBm @ 6Mbps to -71dBm @ 54 Mbps  |

### Configuration and Management

|                       |  |   |
|-----------------------|--|---|
| Management Options    | SU-EZ: Web-Based, Telnet, SSH, SNMP<br>AU-EZ: Telnet, SNMP                         |   |
| Management Access     | Local via Ethernet Port or remotely over the Wireless Link                         |   |
| IP Address Assignment | Automatic (DHCP Client), Manual  |   |
| Configuration File    | Upload/Download via FTP/TFTP   |   |
| Software Upgrade      | Download via FTP/TFTP with Backup Image File of running version for safe operation | Download via FTP/TFTP with Dual Image File allowing downgrade to previous version |
| Security              | WEP 152, SSL 0.95A, SSH v2   | WEP 152   |

### Mechanical, Electrical and Environmental

|                       | SU-EZ Outdoor Unit  | AU-EZ Outdoor Unit       | Indoor Unit  |
|-----------------------|---|--------------------------|--|
| Size                  | 195 x 190 x 74 mm   | 305 x 117 x 57 mm        | 140 x 66 x 35 mm                                       |
| Weight                | 1.47 kg   | 1.8 kg                   | 0.3 kg   |
| Power                 | Typical: 10W<br>Max: 40W  | Typical: 12W<br>Max: 25W | AC In: 85-265 VAC, 50-60 Hz<br>DC Out: 55 VDC, 1 A max |
| Operating Temperature | -33°C to 60°C   | -40°C to 55°C            | 0°C to 40°C  |
| Operating Humidity    | 5% to 95%, non-condensing. Ingress Protection for Outdoor Units: IP67 |                          |  |

### Standards Compliance

|                      |  |
|----------------------|--|
| Safety               | UL/CUL (CSA60950-1, UL60950-1, UL-50)<br>CE/CB (EN60950 include IPX4 /IEC 60950-1) |
| Radio                | ETSI 301 893, 301 489 (DC power),<br>FCC Part 15E 15.407                           |
| EMC                  | CE Class B (EN55022, EN55024)<br>FCC Class B Part 15                               |
| Hazardous Substances | RoHS Compliant   |

### About Alvarion

With more than 3 million units deployed in more than 150 countries, Alvarion is the worldwide leader for WiMAX and wireless broadband solutions, providing systems for connectivity and backhauling to carriers, ISPs and private network operators. With over a decade of technology standards leadership and the industry's most extensive product portfolio covering the full range of frequency bands, the company is the world's largest pure play provider of wireless broadband networking infrastructure for last mile communications markets.

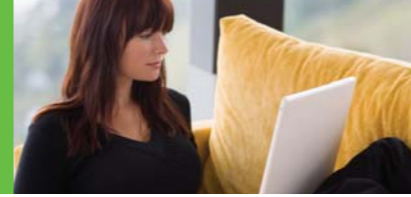


# BreezeACCESS® EZ

## A Breakthrough Offer for Wireless ISPs

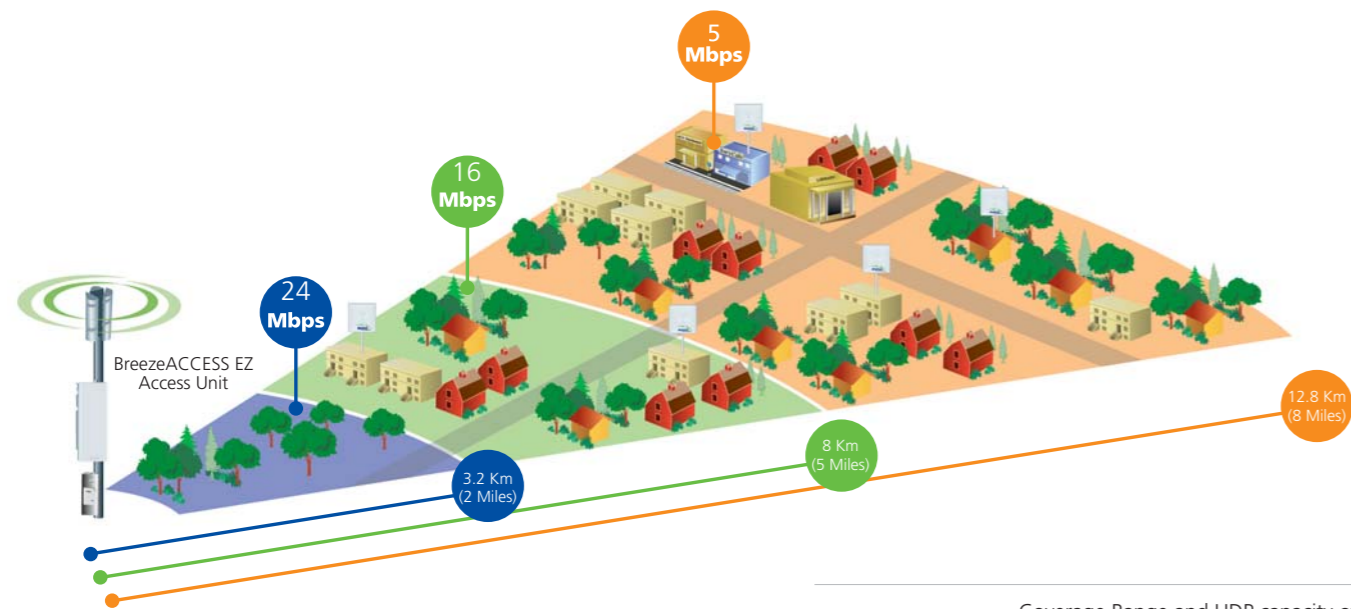
In a dynamic and demanding market, maintaining a competitive position is essential for customer acquisition as well as customer retention. Whether to expand existing networks or penetrate new markets, Wireless Internet Service Providers (WISPs) are continuously looking for cost-effective network solutions. Alvarion's BreezeACCESS EZ presents the ideal solution, offering a breakthrough value to WISPs seeking affordability, without sacrificing robustness and performance.





**Packaged for premium value, BreezeACCESS EZ offers a wide range of capabilities and benefits:**

- Capacity of up to 24 Mbps per Access Unit (AU-EZ), and throughput of up to 12 Mbps per Subscriber Unit (SU-EZ), enable the delivery of powerful broadband services to more subscribers
- A range of over 12 Km (Up to 8 Miles), extends broadband anywhere and everywhere
- Cost effective and reliable solution secures improved business case and rapid return on investment
- Rapid and simplified deployment via non-line-of-sight (NLOS) technology, integral alignment navigation and intuitive Web-based management
- Instant network expansion with out-of-the-box solution and local available stock
- Cross-geographical solution with configurable bands and country codes
- Operational in license-exempt bands and optimized for residential services
- Hardware based encryption enables secured wireless links without sacrificing throughput



Coverage Range and UDP capacity of BreezeACCESS EZ ACCESS under FCC regulations

**Powerful and Reliable**

Part of Alvarion's extended and field-proven product portfolio, BreezeACCESS EZ is an integral part of the BreezeACCESS family and one of the most widely deployed broadband wireless access systems in the world. With capacity of up to 24 Mbps per access unit, the EZ solution enables the delivery of powerful broadband services to more subscribers.

**Extended Range at an Affordable Price**

With a range of over 12 Km and lower equipment and deployment costs, BreezeACCESS EZ enables service providers to wirelessly extend their services to customers who were previously unable to afford them, while securing rapid ROI. Remote residential areas can now benefit from high-speed Internet access, Web browsing and email, and advanced applications such as multi-media services.

**Quick and Simple Network Expansion**

An out-of-the-box solution with immediate available local stock, BreezeACCESS EZ enables virtually instant network expansion and simplified deployment.

**Communities Empowered by Broadband**

Alvarion has always taken an active role in encouraging community satisfaction. BreezeACCESS EZ presents a step forward in overcoming the digital divide by providing an affordable solution that offers vast opportunities for enhanced communication, education, business, social development and improved quality of life.



SU-EZ outdoor unit

**System Components**

Alvarion's BreezeACCESS EZ solution consists of a central Access Unit (AU-EZ) serving access to multiple Subscriber Units (SU-EZ).

**AU-EZ**

Serving up to 24 Mbps of Internet access, an AU-EZ consists of a network interface/power supply indoor unit (IDU) and an outdoor radio unit with an interface for an external antenna. The modular design of AU-EZ enables flexibility in sectoring a covered area by using different external antennas. The following variety of antennas is available for the AU-EZ: 360, 120, 90 and 60 degrees.



**SU-EZ**

Each SU-EZ, connected wirelessly to an AU-EZ, provides an efficient platform for continuous broadband access. It consists of an outdoor wireless radio with integrated high performance 17 dBi flat panel antenna, and the same IDU as the AU-EZ for power supply and network interface.



The SU-EZ, designed for fast installation and configuration, includes complete mounting bracket, visual antenna alignment navigation and intuitive web-based user interface.