

All Outdoor, All-in-one WiMAX™ 802.16e Base Station

BreezeMAX® Extreme

The BreezeMAX Extreme is an all outdoor WiMAX 802.16e base station for fixed and nomadic service applications. Joining the BreezeMAX family, it offers operators enhanced coverage in an easy-to-deploy, single compact box. Furthermore, it supports a strong business case with reduced CAPEX and OPEX, and enables operators to pay-as-they-grow, according to network growth and changes.

Easy Installation and Management

The BreezeMAX Extreme single-box design features a small footprint and simple mounting demands, facilitating a fast installation process. This offers a range of advantages, including:

- Reduction of real estate costs for towers and indoor housing units
- Elimination of complicated and expensive RF cabling needs
- Quick setup and configuration with the BreezeMAX management tool

Flexible Configurations for Diverse Deployments

BreezeMAX Extreme offers enhanced area coverage, overall sector capacity and versatile configuration options which support rural deployments and business applications. This dual-sector, compact base station offers operators an attractive price/performance ratio and its open architecture introduces a commonality of building blocks, ease-of-use and network deployment conformability.

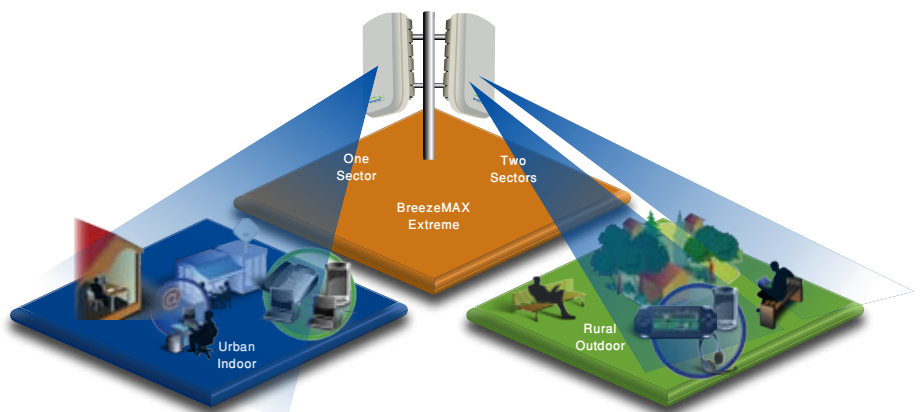
Furthermore, the flexible design enables a macro-like, enhanced configuration by linking multiple units to create a multi-sector, multi-carrier cell/site.

The BreezeMAX Extreme design supports:

- 2nd order diversity and 2x2 MIMO technology for better signal robustness in non-line-of-sight (NLOS) environments
- Multiple channel bandwidth options, including 5 and 10 MHz
- GPS architecture, enabling the connection of up to four devices utilizing a single GPS clock, reducing the CAPEX associated with mounting and location of multiple GPS antennas
- Optional integrated ASN gateways for flexible network planning and pay-as-you-grow business models
- DC and AC power options
- Single or dual sector configuration in the same unit, enabling reduced CAPEX and OPEX



*BreezeMAX Extreme
Deployment Scenarios*



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OPEN WiMAX-Based Ecosystem

The BreezeMAX Extreme ecosystem includes Alvarion's robust CPE portfolio of standard 802.16e subscriber units and devices. Based on the OPEN WiMAX strategy, BreezeMAX Extreme also enables operators to add best-of-breed CPEs according to specific requirements thus extending their options when planning service offerings and support portfolios.

Specifications

Radio & Modem

Unit type	All outdoor base station
Frequency	3.5 GHz band
3.400 - 3,600 MHz	3,650 - 3,700 MHz
3.65 GHz band*	
Access method	IEEE 802.16-2005 (16e OFDMA)
Operation mode	TDD
Channel bandwidth	5 MHz, 7 MHz*, 10 MHz
Frequency resolution	0.25 MHz
FFT size	512, 1024
Modulation	QPSK 1/2, 3/4 QAM16 1/2, 3/4 QAM64 2/3, 3/4, 5/6

*future

Transmit Power

3.x GHz 30 dBm	± 1 dB maximum
2.x GHz 30 dBm	± 1 dB maximum
Diversity support	2x2, MIMO A, MIMO B*

*future

Interfaces

Network	
Standard compliance	IEEE 802.3 CSMA/CD
Data interface	10/100 Mbps, half/full duplex with auto negotiation
Power	48 VDC

Mechanical

Dimensions (H x D x W)	51 x 28 x 15 cm (20 x 11 x 6 in)
Weight	Less than 11 kg (24.2 lb)

Environmental Conditions

Operating Temperature	-40°C to 55°C
Operating humidity	5%-95% non condensing, weather protected

Standard Compliance

Type	Standard
EMC	ETSI EN 301 489-1 FCC p15
Safety	CE EN 60950-1/22 UL 60950-1/22
Environmental	ETSI 300 019 Part 2-1, 2-2, 2.3, 2.4
Radio	ETSI EN 302 326 FCC part 27, part 90



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About Alvarion

Alvarion (NASDAQ: ALVR) is the largest WiMAX pure-player with the most extensive WiMAX customer base and over 250 commercial deployments around the globe. Committed to growing the WiMAX market, the company offers solutions for a wide range of frequency bands supporting a variety of business cases. Through its OPEN WiMAX strategy, superior IP and OFDMA know-how, and proven ability to deploy end-to-end turnkey WiMAX projects, Alvarion is shaping the new wireless broadband experience