

Deploying BreezeMAX[®]



The preferred WiMAX[™] solution for rural, suburban, urban and dense urban deployments



BreezeMAX is Alvarion's robust WiMAX IEEE 802.16e platform, offering easy and quick-to-deploy QoS solutions with a fast ROI. BreezeMAX is based on Alvarion's market leadership, proven field experience, advanced core wireless and networking technologies and years of experience with OFDM/OFDMA technology.



BreezeMAX includes outdoor and indoor installed CPEs, and a self-installable, nomadic WiMAX subscriber unit. It provides broadband data access and voice services in a compact design ideal for residential and SOHO users in rural, suburban, urban and dense urban deployments.



BreezeMAX Highlights

- Successfully field proven in over 200 commercial WiMAX deployments
- Deployed in over 150 countries
- WiMAX Forum[®] certification for BreezeMAX 2500 base station
- Robust WiMAX platform
- Best NLOS and coverage performance
- Wide variety of frequencies
- Modular and scalable architecture
- Enhanced QoS voice support
- Mobile, portable and fixed services



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Rural BreezeMAX Deployments

Typical market demands

Extensive coverage

Low density

Outdoor CPEs

Line of sight to base stations

Low capacity – option to grow

Recommended sector configuration

No diversity

Specific BreezeMAX advantages

Single access unit covers 3 sectors



Suburban BreezeMAX Deployments

Typical market demands

Medium coverage and density

Outdoor CPEs

High capacity sectors

Recommended sector configuration

No diversity

Specific BreezeMAX advantages

Single access unit per sector
(single ODU, single antenna)



Urban BreezeMAX Deployments

Typical market demands

High density and capacity sectors

Indoor CPEs

Recommended sector configuration

Second order diversity

Specific BreezeMAX advantages

Two-way maximum receive
ratio combining in uplink
(improves uplink capacity)

Space diversity on downlink



Dense Urban BreezeMAX Deployments

Typical market demands

Very high density

High capacity

Indoor CPEs

Recommended sector configuration

Fourth order diversity

Specific BreezeMAX advantages

Four-way maximum receive
ratio combining in uplink

Space diversity on downlink



About Alvarion

Alvarion is the largest WiMAX pure player, ensuring customer's long-term success with fixed and mobile solutions for the full range of frequency bands. Based on its OPEN WiMAX strategy, Alvarion offers a superior wireless broadband infrastructure and an all-IP best-of-breed ecosystem in cooperation with its strategic partners. Alvarion has more than 200 commercial WiMAX deployments worldwide.