



Simply Connect to the World of WiMAX™

BreezeMAX® PRO 1000

The BreezeMAX PRO family is part of Alvarion's rich portfolio of WiMAX end user devices. Offering extended coverage and high throughput, the field-proven BreezeMAX PRO family of outdoor CPEs is ideal for enterprise or rural deployments.



Meeting Enterprise Needs with High Data Throughput

BreezeMAX PRO is a family of IEEE 802.16e-2005 Wave 2 compliant, hybrid access units designed for extended coverage and high data throughput. BreezeMAX PRO devices include directional high-gain antennas together with a range of built-in technologies such as advanced antenna switching, hybrid ARQ, sub-channelization and high receive sensitivity to provide high throughput and robust performance. Designed to address enterprise needs, BreezeMAX PRO also offers QoS management, flexible voice, data and WiFi configurations, and a carrier-class network management system that enables rapid expansions and effective fault management for quick resolution.

Extended Coverage for Rural Deployments

BreezeMAX PRO devices contain a high-gain flat antenna for Line-of-Sight (LOS) installations enabling extended coverage, particularly suitable for rural use. Additional technologies for improving network performance and enabling reduced investment costs include adaptive modulation technology which maximizes bandwidth throughput

over large distances, and a carrier-class network management system which simplifies network deployment for cost-effectively meeting customer demands.

BreezeMAX PRO devices also support various licensed and license-exempt frequencies to answer specific operator needs.

BreezeMAX PRO Highlights

- IEEE 802.16e-2004 compliant
- Designed to withstand extreme environmental conditions
- High throughput and top link quality suitable for enterprises
- Extended coverage for rural deployments
- Support for a variety of configurations and services including data, voice and WiFi
- Optional frequencies: 2.3, 2.5 or 3.3-3.8 GHz
- Coverage range of up to 15 km
- Carrier grade network management system simplifying network deployment and rapid expansions

Headquarters

International Corporate HQ
corporate-sales@alvarion.com

North America HQ
n.america-sales@alvarion.com

Sales Contacts

Australia:
anz-sales@alvarion.com

Asia Pacific:
ap-sales@alvarion.com

Brazil:
brazil-sales@alvarion.com

Canada:
canada-sales@alvarion.com

Caribbean:
caribbean-sales@alvarion.com

China:
cn-sales@alvarion.com

Czech Republic:
czech-sales@alvarion.com

France:
france-sales@alvarion.com

Germany:
germany-sales@alvarion.com

Italy:
italy-sales@alvarion.com

Ireland:
uk-sales@alvarion.com

Japan:
jp-sales@alvarion.com

Latin America:
lasales@alvarion.com

Mexico:
mexico-sales@alvarion.com

Nigeria:
nigeria-sales@alvarion.com

Philippines:
ph-sales@alvarion.com

Poland:
poland-sales@alvarion.com

Portugal:
sales-portugal@alvarion.com

Romania:
romania-sales@alvarion.com

Russia:
info@alvarion.ru

Singapore:
asean-sales@alvarion.com

South Africa:
africa-sales@alvarion.com

Spain:
spain-sales@alvarion.com

U.K.:
uk-sales@alvarion.com

Uruguay:
uruguay-sales@alvarion.com

For the latest contact information
in your area, please visit:
[http://www.alvarion.com/index.php/en/
company/worldwide-offices](http://www.alvarion.com/index.php/en/company/worldwide-offices)



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Specifications

Physical Interface

LAN 1 x 10/100 Base-T port

WiMAX Features

Standard Compliance IEEE 802.16-2004
IEEE 802.16-2005 Wave-1

Duplex Mode TDD/FDD

Frequency Bands
2.x GHz 2305-2360 MHz
WCS: 2305 - 2315
2350 - 2360 MHz
2495 - 2690 MHz

3.x GHz 3300-3400 MHz
3400-3600 MHz
3600-3800 MHz

Channel Bandwidth 5, 7 (3.5 GHz only), 10 MHz

Modulation QPSK, 16QAM, 64QAM

Transmit Power 19dBm (2.x GHz)
20dBm (3.x GHz)

Antenna Type Embedded Directional Antenna

Antenna Gain 14.5 dBi @ 2.3/2.5 GHz
16.5 dBi @ 3.5 GHz

Authentication EAP-TTLS

QoS BE, eRT, UGS

Networking Features

Device Management Web, TR-069

WAN Static IP, DHCP, PPPoE, L2TP
and PPTP client pass through

VPN IPSec, PPPoE, PPTP & L2TP pass
through

Mechanical Features

Dimensions (HxWxD) 210x210x54 mm

Weight 1.25 kg

Power Source 100-240 VAC, 50-60 Hz

Standards and Regulations

EMC ETSI EN 301 489-1/4
FCC part 15 Subpart B

Radio ETSI EN 301 021 V.1.6.1
ETSI EN 301 753 V.1.2.1
FCC Part 2, FCC Part 15,
FCC Part 90 (3.65-3.7 GHz band)

Safety EN 60950-1 (CE)
UL 60950 (US)
AS/NZS 3260 (Australia/
New Zealand)

Operating Temperature -40 to 55 C (-40 to 131 F)

Humidity 5% to 95% non condensing,
weather protected (ODU)

About Alvarion

Alvarion (NASDAQ:ALVR) is a global 4G communications leader with the industry's most extensive customer base, including hundreds of commercial 4G deployments. Alvarion's industry leading network solutions for broadband wireless technologies WiMAX, TD-LTE and WiFi, enable broadband applications for service providers and enterprises covering a variety of industries such as mobile broadband, residential and business broadband, utilities, municipalities and public safety agencies. Through an open network strategy, superior IP and OFDMA know-how, and ability to deploy large scale end-to-end turnkey networks, Alvarion is delivering the true 4G broadband experience today (www.alvarion.com)