

BreezeMAX[™] Wi² & BreezeACCESS[®] Wi²

Personal Broadband Solution

Today's lifestyles mean an ever-growing thirst to receive data, voice and multimedia services anytime, anywhere. And to meet this demand, operators of all types are building advanced broadband networks using various technologies—from Wi-Fi and WiMAX—to provide Personal Broadband services.

But regardless of the specific technology chosen, the ideal infrastructure must be robust and sufficiently flexible to deliver Personal Broadband services today while giving the ability to transition to future technologies. The goal is to offer end users improved productivity, lifestyles, and convenience over a sustained period.

For deploying a Personal Broadband network today, Alvarion's combination of the best of Wi-Fi access with the robust and quality-of-service of WiMAX, is the perfect solution.







Personal Broadband services, or the convenience of having all your communication services delivered to you on a handheld device anytime, anywhere, is the ultimate in method to increase user productivity and convenience. Personal Broadband can best be provided today by a combination of Wi-Fi for access and WiMAX for backhaul.

Alvarion's WiMAX / Wi-Fi hybrid system does just that in being a powerful, yet cost-effective converged network that unites Wi-Fi hotspots with WiMAX backhaul to provide Personal Broadband services. As a converged system, it also gives operators the ability to migrate to a fully Mobile WiMAX network with managed services for Personal Broadband users.

Operating in both licensed and licensed-exempt frequencies, the BreezeMAX Wi² and BreezeACCESS Wi² leverage the availability of Wi-Fi technology – along with the power and robustness of WiMAX quality-of-service (QoS)–to answer critical public and private sector needs. Applications include traffic management, video surveillance, public Internet access, homeland security, and nomadic services.

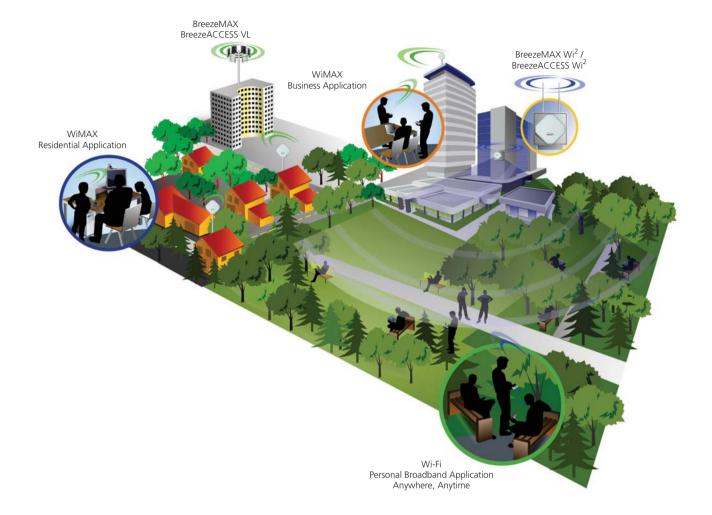
All Outdoor Combined WiMAX / Wi-Fi solution

The system combines a fully ruggedized, outdoor Wi-Fi access point with a WiMAX CPE for backhaul. With its advanced software, BreezeMAX Wi² and BreezeACCESS Wi² can be deployed almost anywhere to provide broadband access to standard Wi-Fi (IEEE 802.11 b/g) end user devices.

Used in conjunction with Alvarion's market-leading BreezeMAX or BreezeACCESS VL base stations, it can be used to expand the existing capabilities of WiMAX at 2.X, 3.X and 5.X GHz. Using BreezeMAX Wi² and BreezeACCESS Wi², a WiMAX or pre-WiMAX network can be used to provide Personal Broadband services to high-end business as well as residential users equipped with Wi-Fi enabled devices such as laptops, PDAs, smart phones, and portable gaming devices.







Economic Advantages

- Converged network serving mobile Wi-Fi users using WiMAX/pre-WiMAX networks yielding significant installation and operations savings
- Rich set of secure differentiated service levels enabling Intranet, public access, and homeland security applications over one network
- Migration path to a 802.16e Mobile WiMAX network
- Low maintenance costs using comprehensive AlvariSTAR network management system with high service availability and optional OSS for user management

Technical Advantages

- Future-ready modularity and flexibility to integrate new technologies such as 802.16e and MIMO
- Supports WiMAX/pre-WiMAX operation in 2.X, 3.X and 5.X GHz
- Rich features including end-to-end QoS, virtual AP, VLAN and VLAN mapping, and 802.11i and 802.1x security
- Comprehensive full solution combining BreezeACCESS VL or BreezeMAX for backhauling with a robust high power and feature rich Wi-Fi 802.11 b/g access point

Headquarters

International Corporate Headquarters Tel: +972.3.645.6262 Email: corporate-sales@alvarion.com

North America Headquarters Tel: +1.650.314.2500 Email: n.america-sales@alvarion.com

Sales Contacts

Australia Email: australia-sales@alvarion.com

Brazil Email: brazil-sales@alvarion.com

Canada Email: canada-sales@alvarion.com

China Email: china-sales@alvarion.com

Czech Republic Email: czech-sales@alvarion.com

France

Email: france-sales@alvarion.com

Email: germany-sales@alvarion.com

Hong Kong Email: hongkong-sales@alvarion.com

Italy Email: italy-sales@alvarion.com

Email: uk-sales@alvarion.com

Japan Email: japan-sales@alvarion.com

Latin America Email: lasales@alvarion.com

Mexico Email: mexico-sales@alvarion.com

Nigeria Email: nigeria-sales@alvarion.com

Philippines Email: far.east-sales@alvarion.com

Poland Email: poland-sales@alvarion.com

Romania Email: romania-sales@alvarion.com

Russia Email: info@alvarion.ru

Singapore Email: far.east-sales@alvarion.com

South Africa Email: africa-sales@alvarion.com

Spain Email: spain-sales@alvarion.com

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

Uruguay Email: uruguay-sales@alvarion.com

For the latest contact information in your area, please visit:

www.alvarion.com/company/locations



www.alvarion.com

© Copyright 2007 Alvarion Ltd. All rights reserved. Alvarion* and all names, product and service names referenced here in are either registered trademarks, trademarks, tradenames or service marks of Alvarion Ltd. All other names are or may be the trademarks of their respective owners. The content herein is subject to change without further notice.

Specifications

Wi-Fi Access Point Specifications

Data Rates 802.11g: 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps per channel 802.11b: 1, 2, 5.5, 11 Mbps per channel

Maximum Channels FCC/IC: 1-11 ETSI: 1-13 Japan: 1-14

Maximum Clients 128 for the radio interface set to access point mode

Modulation Types 802.11g: CCK, BPSK, QPSK, OFDM 802.11b: CCK, BPSK, QPSK

Operating Frequency 802.11b/g: 2.4 ~ 2.4835 GHz (US, Canada, ETSI) 2.4 ~ 2.497 GHz (Japan)

Network Management Web-management, Telnet, SNMP

Wi-Fi Access Point Specifications

802.11g	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
TX power (dbm)	20	20	20	20	20	19	19	18
RX sensitivity (dbm)	-91	-90	-89	-88	-84	-80	-75	-73
802.11b 1 Mbps 2 Mbps 5.5 Mbps 11 Mbps								

Radio Signal Certification

EN 300 826, EN 301.489-1, EN

ETSI 300.328; ETS 300 826 (802.11b)

UL/CUL (CSA60950-1, UL60950-1)

Wireless Radio/Regulatory

ETSI 300 328 (11b/g), 301 489 (DC

FCC Part 15C 15.247/15.207 (11b/g),

Wi-Fi, DGT, TELEC, RSS210(Canada)

FCC Part 15.247 (2.4 GHz)

EN 300.328, EN 302.893

301 489-17

CB (IEC 60950-1)

Certification

UL/GS (EN60950-1)

Safety

power)

TX power (dbm)	20	20	20	20	
RX sensitivity (dbm)	-96	-93	-93	-90	

SW Features

Layer 2 Features Bridge mode VLAN (Guest, Default, Dynamic RADIUS-based) Spanning Tree (802.1D and 802.1W) Security Features WEP, AES WPA/TKIP over 802.1x & PSK 802.11i /WPA2 802.1x supplicant mode Rouge AP Prevention via 802.1x Static Port Security (MAC-based) (Mac 1024)

Close System - Hiding SSID from Beacon RADIUS authentication Access Control List (Mac SA, DA, Ether Type) Multiple SSID (BSSID, Virtual AP's) - 4 per Wireless Interface **QoS** WRR (Weighted Round Robin) Strict Priority scheduling

Strict Priority scheduling 802.11e (WMM baseline)

Hotspot Prevent Communication between Wireless Clients RADIUS Accounting (AAA) Background Scan & Rouge AP detection 802.11f - IAPP Roaming (draft 2.2)

802.11d Broadcast Country Code

Electromagnetic Compatibility

IEC61000-3-2, IEC61000-3-3,

IEC61000-4-2, IEC61000-4-3,

IEC61000-4-5, IEC61000-4-6,

IEC61000-4-8, IEC61000-4-11

IEEE 802.3 10BASE-T, IEEE 802.3u

2x 8 dBi Omni directional (2.4-2.5GHz)

Antenna Specifications

CE Class B (EN55022)

CE EN55024.

IEC61000-4-4,

VCCI Class B

Standards

100BASE-TX,

IEEE 802.11 b, g

FCC Class B Part 15

ICES-003 (Canada)

Management SNMP (v1, v2c, v3) Web access + HTTPS and SSL (Secured Web) Telnet + SSH V1.5 & V2 (Secured Telnet session) SNTP

Phisical Dimensions

Physical Size 32.9 x 27.8 x 21.1 cm (13.0 x 11.0 x 8.3 in) H x W x D

Weight 7.0 kg (49.37 lbs) **Temperature** Operating: -40 to 60°C (-40 to 140°F) Storage: -55 to 80°C (-67 to 176°F)

5% to 95% (non-condensing)

EMC Compliance (Class B) FCC Class B (US) RTTED 1999/5/EC DGT (Taiwan)

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

Humidity

214513 rev.a