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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/AC: 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
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
Rogue 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
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

Management

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

Radio Signal Certification

FCC Part 15.247 (2.4 GHz)
EN 300.328, EN 302.893
EN 300 826, EN 301.489-1, EN 301.489-17
ETSI 300.328; ETS 300 826 (802.11b)

Safety

UL/CUL (CSA60950-1, UL60950-1)
CB (IEC 60950-1)
UL/GS (EN60950-1)

Wireless Radio/Regulatory Certification

ETSI 300 328 (11b/g), 301 489 (DC power)
FCC Part 15C 15.247/15.207 (11b/g), Wi-Fi, DGT, TELEC, RSS210(Canada)

Electromagnetic Compatibility

CE Class B (EN55022)
CE EN55024,
IEC61000-3-2, IEC61000-3-3,
IEC61000-4-2, IEC61000-4-3,
IEC61000-4-4,
IEC61000-4-5, IEC61000-4-6,
IEC61000-4-8, IEC61000-4-11
FCC Class B Part 15
VCCI Class B
ICES-003 (Canada)

Standards

IEEE 802.3 10BASE-T, IEEE 802.3u
100BASE-TX,
IEEE 802.11 b, g

Antenna Specifications

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

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 enabling transition to future technologies. The goal is to be able 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.



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



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 increasing user productivity and convenience. Personal broadband services 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 such as traffic management, video surveillance, public Internet access, homeland security, and various nomadic applications.

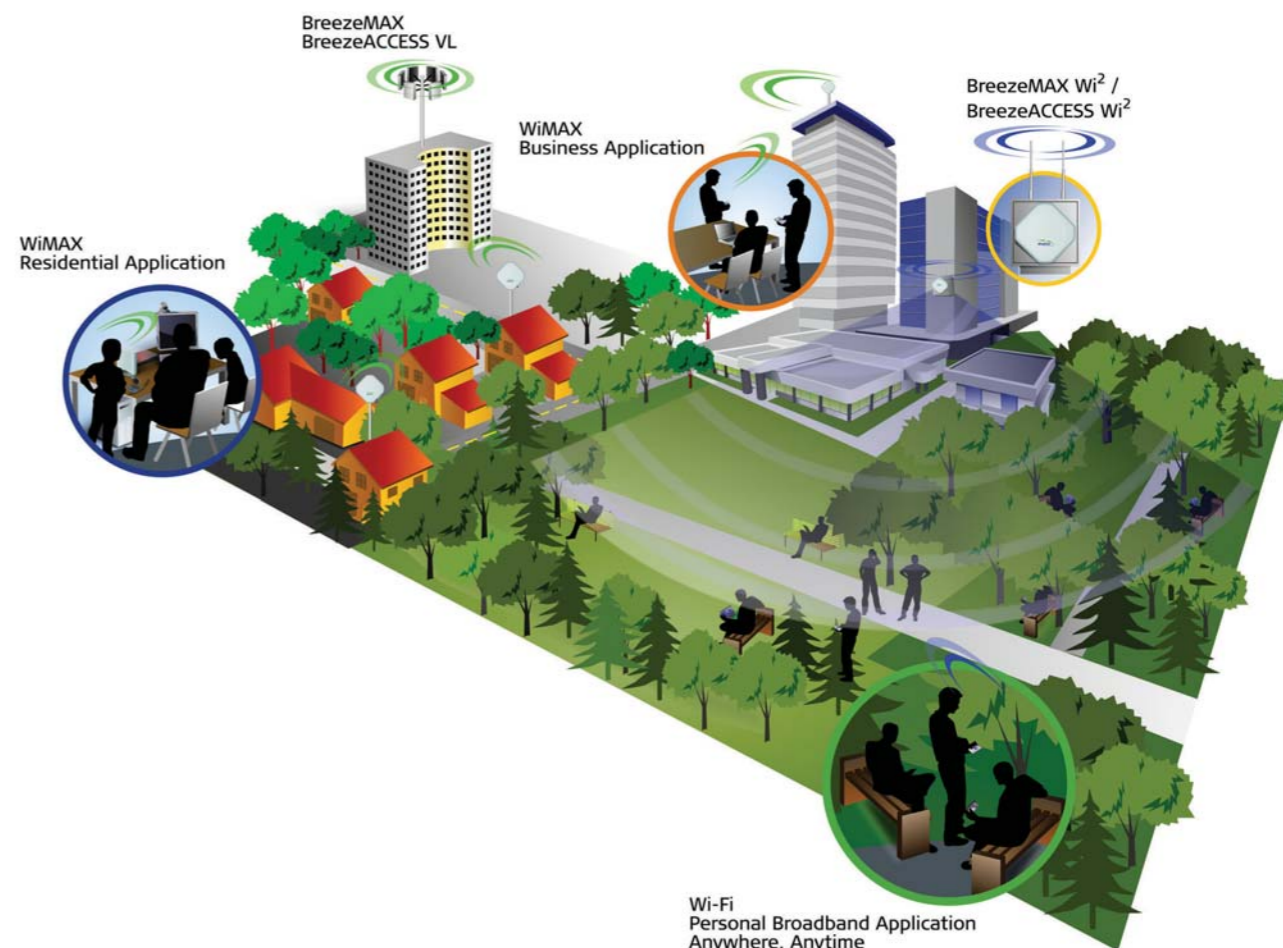
All Outdoor Combined WiMAX / Wi-Fi solution

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.



BreezeMAX Wi² and BreezeACCESS Wi² are self-contained, robust all-outdoor systems that require only a single connection to either AC or DC power. With its easy installation and operation, high performance, and rich security and QoS feature sets, BreezeMAX Wi² and BreezeACCESS Wi² are ideal solutions for operators, municipalities and communities looking to build metropolitan broadband networks or to integrate Wi-Fi hot zone capabilities into their existing WiMAX and pre-WiMAX networks. The result is personal broadband services ranging from public Internet access to public safety and Intranet applications



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 Alvarion's market leading BreezeACCESS VL or BreezeMAX WiMAX Certified™ backhauling with a robust high power and feature rich Wi-Fi 802.11 b/g access point