

Simply Connect to the World of WiMAX™

BreezeMAX® Si 2000

The BreezeMAX Si family is part of Alvarion's rich portfolio of WiMAX end user devices. Optimal in-building coverage together with zero touch installation and provisioning, enables operators to meet mass-market needs at reduced operational costs.



Ideal for Residential and SOHO Use

BreezeMAX Si is a family of compact, single-box indoor access units. Designed to address the needs of residential and SOHO users, it combines a range of features including easy plug and play installation, NLOS capabilities for in-building coverage and optional battery backup for primary voice service. BreezeMAX Si supports the 2.3, 2.5 and 3.5 GHz frequency bands and includes a range of built-in technologies, such as advanced antenna scanning, hybrid ARQ, sub-channelization and high receive sensitivity to ensure enhanced coverage, capacity and user throughput.

Zero Touch Installation and Provisioning

BreezeMAX Si is an easy-to-use plug and play solution, offering data, voice and WiFi interfaces in a compact desk-mounted box. BreezeMAX Si is designed with intelligent automatic provisioning methods, improving both the top and bottom lines. Zero touch installation and provisioning enables reduced operational costs (OPEX) and speeds up deployment of new devices, resulting in faster time-to-money for new networks.

BreezeMAX Si Highlights

- IEEE 802.16e-2005 Wave 2 compliant
- Designed for residential and SOHO use
- Non-Line-of-Sight (NLOS) support for in-building coverage
- Plug and play installation and provisioning
- Compact, desk-mounted indoor WiMAX device
- Various physical interfaces: up to 4 data ports, 2 VoIP FXS ports and WiFi access point
- Optional frequencies: 2.3, 2.5 or 3.5 GHz
- Coverage range of up to 3 km
- Carrier grade network management system simplifying network deployment and rapid expansions

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Specifications

Physical Interface

LAN	Up to 4 x 10/100 Base-T ports
VoIP	Up to 2 SIP FXS ports
WiFi	802.11b/g (only 3.5 GHz)
Smart Card	Optional

WiMAX Features

Standard Compliance	IEEE 802.16e-2005
Duplex Mode	TDD
Frequency Bands	
2.x GHz	2300-2400 MHz 2485-2695 MHz
3.x GHz	3400 - 3600 MHz
Channel bandwidth	5, 7 (3.5 GHz only), 10 MHz
Modulation	QPSK, 16QAM, 64QAM
Transmit Power	26dBm (MAX)
Antenna Type	2 x External Omni
Antenna Gain	3dBi @ 2.3 GHz, 4dBi @ 2.5 GHz, 4dBi @ 3.5 GHz
Authentication	EAP-TTLS, EAP-TLS (optional)
QoS	BE, RT, NRT, ERT, UGS

VoIP Features

Standard Compliance	SIP v2 RFC 3261
Voice Codecs	G.711 (a-law and u-law), G.729ab, T38
Call Features	Call transfer, call waiting, 3-way conference call, call blocking, call forwarding

WiFi Features

Standard Compliance	802.11b/g
WiFi Security	WEP encryption 64, 128 bit

Networking Features

Device Management	Web, TR-069
Firewall	NAT firewall with SPI mode
WAN	NAT IP CS only, multiple DHCP clients
NAT	NAT, Virtual Server, Special Application DMZ Host
VPN	L2TP pass through

Mechanical Features

Dimensions (HxWxD)	169x184x74 mm
Weight	1.6 kg
Power Source	100-240 VAC, 50-60 Hz

Standards and Regulations

EMC	FCC Part 15B Class B ETSI EN 301 489-1/4 EN 55022 Class B
Radio	FCC Part 25, 27 EN 300 328, EN 302 326-1, EN 302 326-2 ETSI EN 302 544-2
Safety	UL 60950-1 EN 60950-1 / IEC 60950-1
Operating Temperature	-5 to 45 C (23-113 F)
Humidity	5% to 95% non condensing

About Alvarion

Alvarion (NASDAQ:ALVR) is a global leader in 4G wireless communications with the industry's most extensive customer base with hundreds of commercial WiMAX deployments. Alvarion's industry leading solutions enable true open 4G and vertical applications for service providers and enterprises. Through an OPEN WiMAX 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)