

Simply Connect to the World of WiMAX™

BreezeMAX® Si 1000

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-2004 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 3.3-3.8 GHz
- Coverage range of up to 3 km
- Carrier grade network management system simplifying network deployment and rapid expansions
- Optional battery backup for primary voice service

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Specifications

Physical Interface

LAN 1 x 10/100 Base-T port
Smart Card Supported

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 - 3800 MHz
Channel bandwidth 5, 7 (3.5 GHz only), 10 MHz
Modulation BPSK, QPSK, 16QAM, 64QAM
Transmit Power 23dBm (MAX)
Antenna Type Scanning Antenna Array
Antenna Gain 7 dBi @ 2.3/2.5 GHz
9 dBi @ 3.5 GHz
Authentication EAP-TTLS
QoS BE, ERT, UGS

Networking Features

Device Management Web, TR-069
WAN IP CS bridge mode, Single DHCP
client for management
DHCP traffic transparent from
LAN to WAN, Eth/VLAN CS
VPN IPSec, PPTP & L2TP pass through

Mechanical Features

Dimensions (HxWxD) 167x170x79 mm
Weight 0.65 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
Safety EN 60950-1 (CE)
UL 60950 (US)
AS/NZS 3260 (Australia /
New Zealand)
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)