

## Simply Connect to the World of WiMAX™

# BreezeMAX® Si 3000

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: 2.5 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 1 x 10/100 Base-T port

### WiMAX Features

Standard Compliance IEEE 802.16e-2005  
Duplex Mode TDD  
Frequency Bands  
2.x GHz 2496-2690 MHz  
Channel bandwidth 5, 7, 10 MHz  
Modulation QPSK, 16QAM, 64QAM  
Transmit Power 27dBm (MAX)  
Antenna Type 2 x Embedded Dipole  
Antenna Gain 4dBi  
Authentication EAP-TTLS, EAP-TLS (optional)  
QoS BE, RT, NRT, ERT, UGS

### Networking Features

Device Management Web, TR-069  
Firewall Yes  
WAN NAT IP CS, multiple DHCP clients  
and Eth/VLAN CS  
NAT NAT, Virtual Server,  
Special Application DMZ Host  
VPN IPsec, PPTP & L2TP pass through  
Supports NAT transversal for  
transparent VPN transfer

### Mechanical Features

Dimensions (HxWxD) 135x122x52.5 mm  
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 27  
EN 302 326, EN 302 544-2  
Safety UL 60950-1  
EN 60950-1 / IEC 60950-1  
Operating Temperature 0 to 45 C (32-113 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](http://www.alvarion.com))