



Simply Connect to the World of Mobile WiMAX™

BreezeMAX® USB 250

BreezeMAX USB 250 WiMAX™ Modem is part of Alvarion's comprehensive portfolio of award-winning, field-proven end user devices which are deployed in over 150 countries. In addition to support for a wide range of frequencies in licensed and license-exempt bands, Alvarion's end user devices offer reliability and performance with capabilities and features that are a value-added differentiator in highly competitive markets.

Connect with Convenience

The BreezeMAX USB 250 is a Mobile WiMAX modem that uses the compact USB form factor to deliver high-speed broadband connectivity any place and at any time. This convenient WiMAX 802.16e compact modem, is designed to free subscribers of the limitations of cable or DSL and let them simply plug into any USB port to experience complete wireless broadband connectivity – indoors and outdoors, at home or in the office, on a break or on the move.

Connect with Confidence

The BreezeMAX USB 250 WiMAX Modem enables mature and reliable performance with support for MIMO technology to deliver exceptionally high throughput. The field proven BreezeMAX USB modem is designed for plug and play operation with self provisioning capabilities, that grant subscribers the confidence to *carry and connect* to their mobile voice and data applications quickly and reliably. It supports advanced handoff algorithms at ranges of up to 1 km and operates in a range of WiMAX frequencies including 2.3, 2.5 and 3.5 GHz.

Highlights

- 802.16e fixed, nomadic and mobile support
- Manager utility for local management
- Compact form factor: weight 20 g
- Over-the-air software upgrades via HTTP
- No-CD installation
- OMA-DM support
- Frequency coverage: 2.3, 2.5, 3.5 GHz
- Transmit power: 23 dbm
- Channel BW: 5/7/10 MHz
- Two-printed antenna with MIMO support
- Beamforming support (on Rx)
- Reduced power consumption: <2.5W
- Host interface: USB 2.0 wireless connection
- Operating system: Windows XP, Vista, Windows 7, 32 and 64 bit



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Specifications:

WiMAX Radio & Modem

Item
Radio Type
Frequency Band

Description
IEEE 802.16e 2005 Wave II
• 2.3 GHz – 2300~2400 MHz
• 2.5 GHz – 2496~2690 MHz
• 3.5 GHz – 3400~3600 MHz

Antenna Type
Channel Bandwidth

Omni (supporting 1Tx and 2Rx) with Tx Diversity.
• 2.3 GHz - 5 and 10 MHz
• 2.5 GHz - 5 and 10 MHz
• 3.5 GHz - 5, 7, and 10 MHz
Maximum-Ratio Combining (MRC)
• Scaleable OFDMA employing Time-Division Duplex (TDD) mechanism
• PRBS subcarrier randomization
• Contains pilot, preamble, and ranging modulation
• Down Link: QPSK, 16 QAM, 64 QAM
• Up Link: QPSK, 16 QAM, 64 QAM
• FEC 1/2, 3/4, 5/6

Antenna Technology
Modulation Technique

In 250 KHz steps
Shall be referenced to the WiMAX BTS Timing Module.
MRCT Compliant
IEEE 802.16e WirelessMAN-OFDMA
Rx up to 75% , Tx up to 50%
MIMO (1TX, 2RX)
Complies with major regional regulatory requirements

FEC Coding Rates

Channel Step Size
Synchronization
Frequency Accuracy
Air Interface
TDD Duty Cycle (Tx/Rx)
SISO or MIMO
Regulatory Compliance

RF Transmitter Specifications

Output power
Transmit Power Dynamic Range
Transmit Power Control Relative Accuracy
Transmit and Receive Switching Gap

Typical 23dBm @ (16QAM 3/4 with EVM -24dB / ETSI spectrum mask)
45 dB
2 dB
50 us

RF Receiver Specifications

Impedance
RX Sensitivity
Adjacent Channel Rejection
Non-Adjacent Channel Rejection

50 ohm
Better than mRCT 6dB
Follow mRCT
Follow mRCT

Antenna Specifications

Two printed antenna
Antenna Gain
Antenna Connectors

2 dBi
Not Supported

Sensitivity

MRC 2.3GHz
MRC 2.5GHz
MRC 3.5GHz

6dB Better than mRCT
6dB Better than mRCT
6dB Better than mRCT

Mechanical

Dimensions
Weight
Mounting

Length x Width x Height (mm): 93.7x28x10.7 mm
20 g
USB 2.0

Standards Compliance

CE

EN 60950
ETSI 302544
ETSI 300 019-2-4
ETSI 301 489-1 V1.4.1

Environmental

Operating Temperature
Storage Temperature
Operating Humidity
Storage Humidity

0°C to 40°C
-20° to 60°C
Maximum 90%
Maximum 90%

About Alvarion

Alvarion (NASDAQ:ALVR) is a global 4G communications leader with the industry's most extensive customer base, including hundreds of commercial 4G deployments. Alvarion's industry leading network solutions for broadband wireless technologies WiMAX, TD-LTE and WiFi, enable broadband applications for service providers and enterprises covering a variety of industries such as mobile broadband, residential and business broadband, utilities, municipalities and public safety agencies. Through an open network 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)