



BreezeMAX[®] Extreme 3600



WiMAX 16e for Best in Class Broadband Wireless Solutions

BreezeMAX Extreme 3600 is an all outdoor zero footprint WiMAX 16e wireless broadband solution for variety of markets utilizing the 3.6 – 3.8 GHz frequency range and is part of Alvarion's carrier-class, field proven BreezeMAX product family. This base station is designed for many applications and business models and offers advanced air-protocol capabilities, superior performance and standard protocol support.

With an integrated antenna, ASN gateway and GPS receiver, BreezeMAX Extreme 3600 is designed for ease-of-deployment and reduced total cost of ownership. BreezeMAX Extreme 3600 offers easy configuration and a self-sustained ecosystem, ideally suited for operators, municipalities, utilities, enterprises and public safety networks.



Main Features and Highlights

All Outdoor, Zero Footprint Solution for Easy Deployment

The compact design of BreezeMAX Extreme 3600 enables reduced CAPEX and OPEX for low Total Cost of Ownership (TCO) and accelerated ROI. This all-in-one solution integrates the base station, antenna, ASN gateway and GPS receiver to provide an all outdoor solution that is easy to deploy on communication towers, rooftops and street light poles.

Enhanced Coverage and Capacity Capabilities with Advanced Air Protocol Techniques

BreezeMAX Extreme 3600 provides MIMO A/B and MRRC advanced antenna techniques with up to 2x10 MHz to deliver high-capacity broadband services. Designed with state-of-the-art OFDMA and error correction coding techniques (leveraging 16e PHY) as well as an integrated spectrum analyzer, BreezeMAX Extreme 3600 offers best Non-Line-of-Sight (NLOS) and interference resilience.

Leverage WiMAX 16e QoS for Enhanced and Swift Delivery of Triple Play Services

Featuring inherent WiMAX QoS, BreezeMAX Extreme 3600 enables simultaneous support of multiple applications using service differentiation for real-time triple play (voice, video and data) applications.

BreezeMAX Extreme 3600 Supports a Wide Range of Applications



Benefit from WiMAX 16e

BreezeMAX Extreme 3600 brings state-of-the-art standardized technology to the 3.6 – 3.8 GHz frequency range. BreezeMAX Extreme 3600 is designed to support interoperability and certification and complies with WiMAX Forum® guidelines, enabling ecosystems to benefit from WiMAX 16e economy-of-scale.

Efficient Delivery of Broadband Applications to Any Environment

BreezeMAX Extreme 3600 supports unmatched sector capacity, coverage and deployment variety for enhanced implementation of fixed, nomadic and mobile applications in rural and urban deployments. It is the ideal choice for WISPs, municipalities, utilities, enterprises and public safety networks.

BreezeMAX Extreme 3600 Advantages

- All-outdoor, zero footprint, easily installed unit
- Dual-carrier in a single box
- MIMO A/B support for increased coverage and capacity
- Advanced air protocol techniques for leading performance and reliability
- Secure connectivity with embedded encryption mechanisms
- WiMAX 16e QoS
- Reliable and ruggedized infrastructure for extreme outdoor conditions
- Fast ROI with reduced TCO by utilizing an all-in-one, single platform with ASN gateway
- Mobile, portable and fixed services
- Reliable video transmission and inherent multicast support

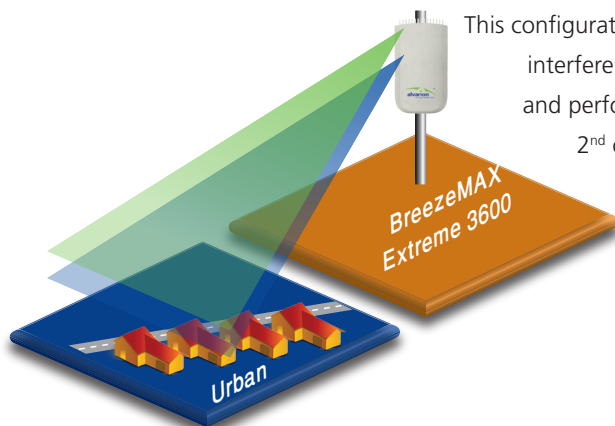


BreezeMAX Extreme 3600 Models

MIMO Single Sector 2x2

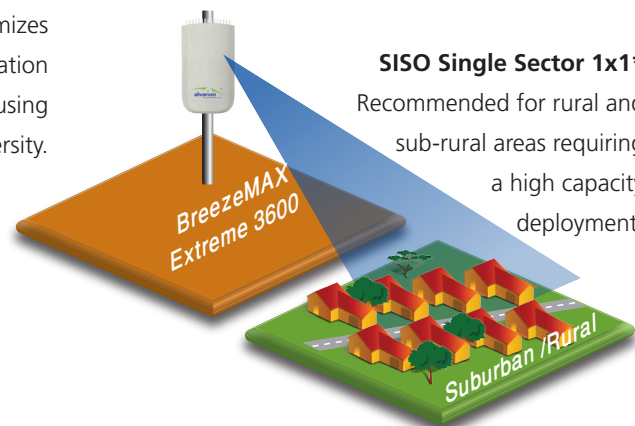
Recommended for high-capacity urban, video-driven and NLOS deployments.

This configuration maximizes interference mitigation and performance using 2nd order diversity.



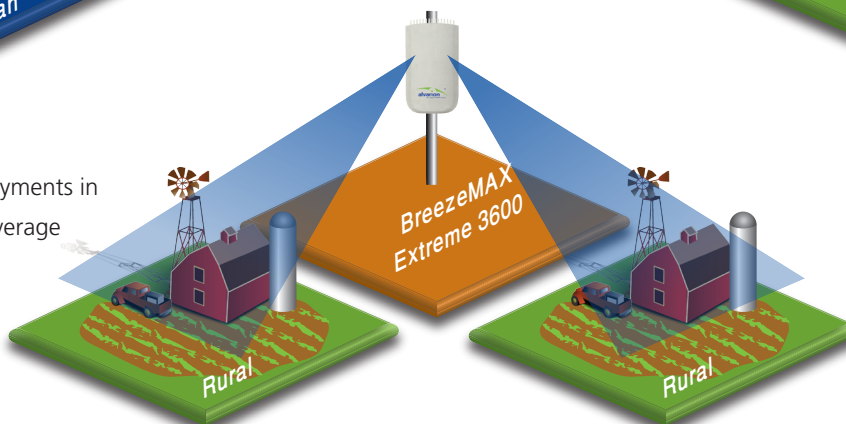
SISO Single Sector 1x1*

Recommended for rural and sub-rural areas requiring a high capacity deployment.



SISO Dual Sector 1x1

Recommended for deployments in rural areas with large coverage requirements and lower capacity demands per sector.



*In future releases.

Headquarters

International Corporate HQ
Email: corporate-sales@alvarion.com

North America HQ
Email: n.america-sales@alvarion.com

Sales Contacts

Australia:
anz-sales@alvarion.com

Asia Pacific:
ap-sales@alvarion.com

Brazil:
brazil-sales@alvarion.com

Canada:
canada-sales@alvarion.com

Caribbean:
caribbean-sales@alvarion.com

China:
cn-sales@alvarion.com

Czech Republic:
czech-sales@alvarion.com

France:
france-sales@alvarion.com

Germany:
germany-sales@alvarion.com

Italy:
italy-sales@alvarion.com

Ireland:
uk-sales@alvarion.com

Japan:
jp-sales@alvarion.com

Latin America:
lasales@alvarion.com

Mexico:
mexico-sales@alvarion.com

Nigeria:
nigeria-sales@alvarion.com

Philippines:
ph-sales@alvarion.com

Poland:
poland-sales@alvarion.com

Portugal:
sales-portugal@alvarion.com

Romania:
romania-sales@alvarion.com

Russia:
info@alvarion.ru

Singapore:
asean-sales@alvarion.com

South Africa:
africa-sales@alvarion.com

Spain:
spain-sales@alvarion.com

U.K.:
uk-sales@alvarion.com

Uruguay:
uruguay-sales@alvarion.com

For the latest contact information
in your area, please visit:
www.alvarion.com/company/locations



© Copyright 2011 Alvarion Ltd. All rights reserved.
Alvarion® its logo and all names, product and service
names referenced herein are either registered trademarks,
trademarks, tradenames or service marks of Alvarion Ltd. in
certain jurisdictions.
All other names are or may be the trademarks of their
respective owners. The content herein is subject to change
without further notice.
"WiMAX Forum" is a registered trademark of the WiMAX
Forum. "WiMAX," the WiMAX Forum logo, "WiMAX
Forum Certified" and the WiMAX Forum Certified logo are
trademarks of the WiMAX Forum.

215575 rev.a

Specifications

Radio & Modem

Unit type
Configuration options

All outdoor base station
Single sector MIMO – integrated / external antenna
Dual sector SISO – external antenna

Frequency
Channel bandwidth
Number of channels
Radio access method
Operational mode
Central frequency resolution
FFT size
Supported modulation

Base Station
3600-3800 MHz
5 MHz, 7 MHz, 2x7 MHz, 10 MHz, 2x10 MHz
MIMO: 2Rx, 2Tx
IEEE 802.16-2005 (16e OFDMA)
TDD
125 KHz
2x512/1024
QPSK 1/2, 3/4 + Rep
QAM16 1/2, 3/4
QAM64 2/3, 3/4, 5/6
HARQ, CTC, compressed DL / UL Maps.
2x2, MIMO Matrix A, MRC, MIMO Matrix B (Base Station)

CPE
3600-3800 MHz
5 MHz, 7 MHz, 10 MHz
2Rx, 1Tx

Air link optimization support
Diversity

Transmit Power

Max transmit power

Base Station
17-30 dBm, 1 dB resolution

CPE
22 dBm @ 10 MHz
19 dBm @ 5 MHz
ATPC of 45 dB
15 dBi

Integrated antenna gain

13 dBi

Security

Authentication
Data encryption

Centralized over RADIUS, MS chap v.2 EAP TTLS over RFC-2865
AES WiMAX 16e

Interfaces

Network
Standard compliance
Data interface
Power

IEEE 802.3 CSMA/CD
10/100 Mbps, half/full duplex with auto negotiation
In: 48V DC
Out: PoE (55V DC) feeding backhaul CPE
Antenna (TNC), receiver integrated in unit
GPS chaining support

GPS

Mechanical

Dimensions (H x D x W)
Weight:
Extreme unit
Mounting Kit

Base Station
51 x 28 x 14.7 cm
CPE
20.5 x 20.5 x 5.5 cm
11 kg
1.2 kg
5 kg

Environmental

Operating temperature
Operating humidity

-40°C to 55°C
5%-95% non condensing, weather protected

Standard Compliance

EMC
Safety
Environmental
Radio
Humidity
Regulatory compliance

FCC p15. B, ETSI EN 301489-1
CE EN 60950-1/22, UL 60950-1/22
ETS 300 019 part 2-1, 2-2, 2-4, IP67
ETSI EN 302 326
ETSI 300 019-2-4 Class T4.1E (IEC-60068-2-56)
ROHS

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)