

BreezeACCESS 5GHz Enhancement

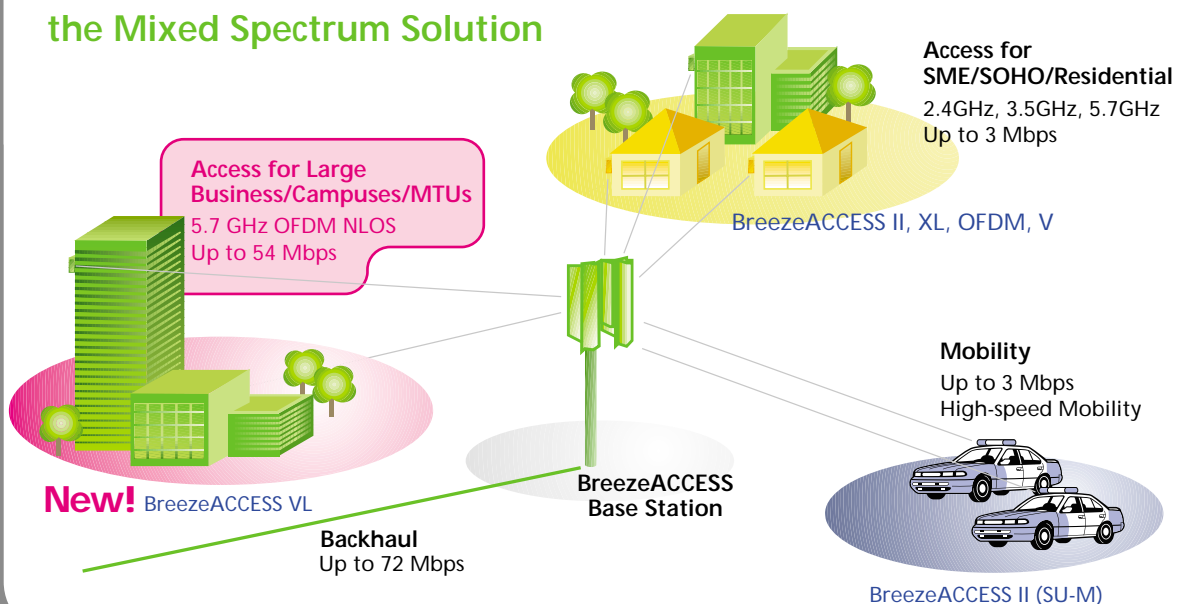
Featuring 54Mbps, OFDM and NLOS

Alvarion's unique BreezeACCESS delivers comprehensive wireless broadband connectivity solutions for Telco's, Service Providers and Network Managers. BreezeACCESS offers **fast deployment** and simple integration into the existing network, **easy operation** and the ability to concurrently implement multiple frequencies. Featuring diverse models with flexible modularity, BreezeACCESS mixed spectrum, multiband solutions provide an extensive IP offering for wireless access and networking connectivity, enabling a wide variety of data and voice services for **multiple market segments** and cost effective CPEs.

Operating in the 5.725GHz-5.850GHz bands and facilitating data rates up to 54Mbps, the new addition, BreezeACCESS VL, is a NLOS OFDM based PMP system. Used with other BreezeACCESS band versions (BreezeACCESS II, XL, V or OFDM), BreezeACCESS VL gives operators the flexibility to use one band for service provisioning to residential and SME customers, while reserving high bandwidth for large enterprises and MTUs.



BreezeACCESS: the Mixed Spectrum Solution



New to BreezeACCESS...

5GHz, 54Mbps, and non-line-of-sight.
With BreezeACCESS, broadband takes flight.

Leveraging the power of Alvarion's unique Mixed Spectrum Solution and delivering gross bandwidth yields from 3Mbps to 54Mbps to reach all customer types, BreezeACCESS VL enhances the business model and increases revenue potential.

BreezeACCESS VL Highlights

BreezeACCESS VL OFDM radio access overcomes the challenges generally associated with LOS products. Using adaptive modulation, BreezeACCESS optimizes over-the-air rates to deliver fast, consistent and reliable data services. Enhanced Quality of Service (QoS) mechanisms, such as bandwidth management, dynamic bandwidth allocation and prioritization optimize the business case by enabling a variety of Service Level Agreement plans and price tariffs.

BreezeACCESS features advanced security options, including WEP based encryption and transmission, authentication and 802.1Q based VLANs and filtering options. Optimal installation and performance is assured using ATPC (Automatic Transmit Power Control) and multi rate, and by superior management capabilities including remote SW upgrade and a remote upload/download configuration file.

System Components

The Access Units (AU)

Installed at the base station site, the AU provides all the functionality necessary to communicate with remote units and connect to the backbone of the service provider using standard 10/100BaseT interface. Delivering up to 54Mbps and serving all SU models, Alvarion offers two Access Units to ensure maximal flexibility:

- Modular Base Station Equipment, including the BreezeACCESS 19" shelf & plugged-in AU Indoor Unit.
- Stand-Alone "Micro-Cell" Access Unit.

The Subscriber Unit (SU)

Installed at the customer premises, the SU provides an efficient platform for high-speed Internet and Intranet services at a burst data rate of up to 54 Mbps using a 10/100BaseT connection. The two SU speed options, 24Mbps and 54Mbps, are both served by the same AU. An over-the-air upgrade is available to increase the capacity of existing 24Mbps SUs.

Specifications

Frequency:	5.725-5.850 GHz	Radio Access Method:	OFDM, TDD	Channel Bandwidth:	20 MHz			
Output Power (@ antenna port)	AU: 15 to 21dBm, Adjustable in 1dB steps; SU: -17 to 21dBm, ATPC							
Modulation	BPSK, QPSK, 16QAM, 64QAM							
Gross bit rate (Mbps)	6	9	12	18	24	36	48	54
Sensitivity (dBm)	-88	-87	-86	-84	-81	-77	-72	-70
Antenna	SU: 21dBi ; AU: 15dBi, 120° or 16dBi, 90°							
Environmental	Operating Temperature	Outdoor Units: -40°C to 55°C			Indoor Units: 0°C to 40°C			
	Operating Humidity	5%-95% non condensing, Outdoor units are weather protected						
Standard compliance	EMC:			Safety:		Environmental:		
	FCC part 15 class B, EN55022 class B			UL 1950, EN 60950		ETS 300 019		



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