

BreezeACCESS II CX

Extending Your Reach

The BreezeACCESS CX Cell Extender, designed to re-distribute broadband coverage from a primary wireless base station while also serving as a local subscriber, can connect users who were previously unreachable due to obstructions such as foliage or hills. This eliminates the need to deploy costly new backhauls and base stations to connect lucrative pockets of subscribers, significantly improving the economics of wireless broadband deployments.

The CX uses a two-piece intermediate frequency (IF) architecture with both components designed to be installed completely outdoors. This design permits a high degree of installation flexibility and eliminates the need for expensive runs of large LMR or Heliax cables. The CX accommodates all antennas currently certified with BreezeACCESS II.

Configured as a local subscriber that also creates a microcell connection to customers who are not within the base station's line of site, the CX can be deployed in minutes, usually without requiring a re-occurring site lease. This unique feature set enables cost efficient access to more revenue per base station.

Using the same firmware and antenna choices as the rest of the industry-leading BreezeACCESS II family of wireless broadband products, the CX Cell integrates into existing BreezeACCESS II infrastructure.

Product Highlights

The BreezeACCESS CX Cell Extender incorporates the features of a mini base station, backhaul and subscriber unit into an integrated, easy-to-deploy package. Featuring:

- Two-piece IF architecture for simplicity, peak power and low cost cabling
- Integrated Ethernet for local subscriber acquisition
- 100% outdoor installable for mounting flexibility
- Full LED diagnostics for quick antenna alignment and association count
- Remote telnet or SNMP, or local serial port, for easy management
- Integrated 16 dBi antenna on backhaul radio for faster deployment
- Supports external antenna on Access Unit for custom coverage



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Specifications

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Radio Frequency	2.400-2.4835 GHz ISM band	
Operating Mode	Time Division Duplex	
Radio Access Method	FH-CDMA	
Standard Compliance	FCC Part 15.247	
Channel Bandwidth	1 MHz	
Antenna (SU-RA) [downlink]	16 dBi, 20° x 20°, VPOL, EN 301 525 Class TS 2 compliant	
Antenna Port (AU-RE) [micro-cell]	N-Type Connector, 50 ohm	
Output Power (at antenna port)	26 dBm typical. Control Range 20 dB typical	
Maximum RX Input Power	-20 dBm	
Gross Bit Rate at sensitivity, typical (dBm at antenna port, BER 10E-6)	1 Mbps	-87 dBm
	2 Mbps	-81 dBm
	3 Mbps	-73 dBm
Modulation	2, 4, 8 level GFSK modulation (1, 2, 3 bits / symbol).	

IF Communication Interface

IF Frequency	440 MHz
IF cable Impedance	50 ohm
Maximum IF cable Attenuation	15 dB
Maximum IF cable DC Resistance	1.5 ohm

Interface

Interface	SU-RA	AU-RE	Interface Unit
IF	TNC jack, lightning protected	TNC jack, lightning protected	TNC jack, lightning protected
ANT		N-Type jack, lightning protected	
Ethernet & Monitor			10Base-T (RJ-45) in a sealed Physical Media ENSR 1FB5 Receptacle that mates with ENSAM315 field attachable connector
Power	12 VDC from Interface Unit via the IF cables	12 VDC from Interface Unit via the IF cables	UL/CSA listed power cable through a Heyco-Flex Straight Connector

Electrical, Mechanical and Environmental

	AU-RE	SU-RA	Interface Unit
Electrical	12 VDC from Unit via the IF cable	12 VDC from Interface Unit via the IF cables	110-240 VAC, 50-60Hz, 1.4A max
Mechanical	12 x 4.7 x 1.8 in, 3.5 lbs 30.6 x 12 x 4.7 cm, 1.6 kg	12 x 12 x 2.8 in, 5.5 lbs 30.6 x 30.6 x 7.2 cm, 2.5 kg	11 x 9 x 4.3 in, 13 lbs 28 x 23 x 11cm, 5.9 kg
Operating Temperature	-40°F to 131°F -40°C to 55°C	-40°F to 131°F -40°C to 55°C	14°F to 131°F -10°C to 55°C
Operating Humidity	100% RH Condensing	100% RH Condensing	100% RH Condensing

Standards Compliance, General

EMC	FCC Part 15.247, 15.207, 15.209
Safety	IEC 60 950 US/C (TUV), FCC 1.1307
Environmental	ETS 300 019 part 2-4 class 4.1E
Radio	FCC Part 15.247



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