	Specifications				
	Radio				
	Frequency Range	2.4 - 2.4835 GHz ISM band (ETSI, FCC)		
	inequency hange	2.4 - 2.497 GHz (Japan)	2102, 100,		
	Radio Type	Direct Sequence Spread Spec	trum (DSSS)		
	Wireless LAN Standards	Compliant with IEEE 802.11b			
	Selectable sub Channels	FCC	1-11		
		ETSI	1-13		
		Japan TELEC France	1-14 10-13		
	Output Power	FCC	-4, -2, 4, 6, 12, 14, 20, 24	(dBm)	
	(at the antenna port)	ETSI	-4, -2, 4, 6, 12, 14	(dBm)	
	(at the alleenia pole)	Japan TELEC	-4, -2, 4, 6, 12, 14	(dBm)	
	Sensitivity	Data Rate	Sensitivity	Modulatior	
	(BER 1E10-6)				
		11 Mbps	-85 dBm	256 CCK	
		5.5 Mbps	-88 dBm	16 CCK	
		2 Mbps	-90 dBm	DQPSK	
	Brococcing Coin	1 Mbps	-93 dBm	DBPSK	
	Processing Gain Integrated Antenna Type	10.4 dB Nominal Flat Panel 16 dBi, 20° Vertica	al /Horizontal		
	Range				
	Europe/ ETSI (20 dBm EIRP)	Up to 10 km			
	US FCC	Up to 25 km (15 miles)			
	Security				
	Authentication and Data Encryption	40-bit RC4 WEP			
nternational Corporate Headquarters	Configuration and Management				
reezeCOM Ltd.	Management and Setup		ows platform configuration utility		
none: +972 3 645 6262	Site Survey Tool	Integrated into the configura	e configuration utility		
ax: +972 3 645 6222	SNMP Agents	MIB II, Bridge MIB, DS.11 Pr			
mail: sales@breezecom.co.il	Software Upgrade	Simultaneous multiple units software upgrade using the configuration uti			
lorth & South America Headquarters	LED Indicators	TFTP download Indoor Interface Unit Outdoor Unit			
orth & South America Headquarters reezeCOM Inc.		Power status	Power Status		
hone: (760) 517 3100		End-to-end Ethernet status	10-LED display bar:		
ax: (760) 517 3200			RSSI in the RB/ Load Gauge	in BII	
mail: sales@breezecom.com		Ethernet Status / Traffic			
BreezeCOM Worldwide Offices:			Wireless Link Status / Traffic	с	
	Outdoor Unit-to-Indoor Unit Communication				
	Cable Type Cat 5 FTP 4x2x24 Double Jacket				
.K. & Ireland	Maximum Cable length between	90 m (280 feet)			
hone: +44 1635 817344 ax: +44 1635 817533	indoor and outdoor units				
nail: sales@breezecom.co.uk	Interfaces				
	RF (antenna) connector in the	N-Type jack, lightning protected			
tin America & Caribbean	outdoor unit				
hone: +598 2 712 3210	Baseband (indoor-to-outdoor units)	Outdoor units: Shielded RJ-45 with special water proof sealed cap Indoor units: Shielded RJ-45			
ax: +598 2 712 3211					
nail: s.america-sales@breezecom.com	Ethernet	Indoor units: 10BaseT, (RJ-45) with 2 embedded LEDs			
	Electrical				
-		110 / 220 V			
rance	Power Consumption	110 / 220 V			
rance	Power Consumption	500 / 250 mA			
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39					
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39	Mechanical Dimensions	500 / 250 mA	12 x 4.7 x 2 in		
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr	Mechanical Dimensions Outdoor Unit	500 / 250 mA 30.5 x 12 x 5 cm	12 x 4.7 x 2 in 12 x 12 x 2.8 in		
ance none: +33 1 34 38 54 30 ix: +33 1 34 38 54 39 nail: breezecom@breezecom.fr	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated	500 / 250 mA	12 x 4.7 x 2 in 12 x 12 x 2.8 in		
ance one: +33 1 34 38 54 30 x: +33 1 34 38 54 39 hail: breezecom@breezecom.fr ina one: +86 10 6515 5833/34	Mechanical Dimensions Outdoor Unit	500 / 250 mA 30.5 x 12 x 5 cm			
rance hone: +33 1 34 38 54 30 hax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr hina hone: +86 10 6515 5833/34 ax: +86 10 6515 5835	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated Antenna Indoor Unit	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm	12 x 12 x 2.8 in		
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr hina hone: +86 10 6515 5833/34 ax: +86 10 6515 5835 mail: breeze-china@breezecom.co.il	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated Antenna Indoor Unit Environmental	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm 15.4 x 8.4 x 5.6 cm	12 x 12 x 2.8 in		
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr hina hone: +86 10 6515 5833/34 ax: +86 10 6515 5835 mail: breeze-china@breezecom.co.il sia Pacific	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated Antenna Indoor Unit	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm 15.4 x 8.4 x 5.6 cm Indoor unit: 0°C to 40°C	12 x 12 x 2.8 in		
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr hina hone: +86 10 6515 5833/34 ax: +86 10 6515 5835 mail: breeze-china@breezecom.co.il sia Pacific hone: +852 2786 9996	Mechanical DimensionsOutdoor UnitOutdoor Unit with IntegratedAntennaIndoor UnitEnvironmentalOperating Temperature	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm 15.4 x 8.4 x 5.6 cm Indoor unit: 0°C to 40°C Outdoor unit: -40°C to 55°C	12 x 12 x 2.8 in 6.1 x 3.3 x 2.2 in	htected	
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr hina hone: +86 10 6515 5833/34 ax: +86 10 6515 5833/34 ax: +86 10 6515 5835 mail: breeze-china@breezecom.co.il sia Pacific hone: +852 2786 9996 ax: +852 2310 0062	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated Antenna Indoor Unit Environmental Operating Temperature Operating Humidity	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm 15.4 x 8.4 x 5.6 cm Indoor unit: 0°C to 40°C Outdoor unit: -40°C to 55°C	12 x 12 x 2.8 in	otected	
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr hina hone: +86 10 6515 5833/34 ax: +86 10 6515 5835 mail: breeze-china@breezecom.co.il sia Pacific hone: +852 2786 9996 ax: +852 2310 0062	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated Antenna Indoor Unit Environmental Operating Temperature Operating Humidity Standards Compliance, General	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm 15.4 x 8.4 x 5.6 cm Indoor unit: 0°C to 40°C Outdoor unit: -40°C to 55°C 5% to 95% non-condensing.	12 x 12 x 2.8 in 6.1 x 3.3 x 2.2 in	otected	
rance Phone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr Phone: +86 10 6515 5833/34 ax: +86 10 6515 5833/34 ax: +86 10 6515 5833 mail: breeze-china@breezecom.co.il Asia Pacific Phone: +852 2786 9996 fax: +852 2310 0062	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated Antenna Indoor Unit Environmental Operating Temperature Operating Humidity Standards Compliance, General EMC	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm 15.4 x 8.4 x 5.6 cm Indoor unit: 0°C to 40°C Outdoor unit: -40°C to 55°C 5% to 95% non-condensing. EN 300-385, FCC Part 15	12 x 12 x 2.8 in 6.1 x 3.3 x 2.2 in	otected	
France Phone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 fmail: breezecom@breezecom.fr China	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated Antenna Indoor Unit Environmental Operating Temperature Operating Humidity Standards Compliance, General EMC Safety	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm 15.4 x 8.4 x 5.6 cm Indoor unit: 0°C to 40°C Outdoor unit: -40°C to 55°C 5% to 95% non-condensing. EN 300-385, FCC Part 15 EN 60950, UL 1950	12 x 12 x 2.8 in 6.1 x 3.3 x 2.2 in Outdoor units are weather pro	otected	
rance hone: +33 1 34 38 54 30 ax: +33 1 34 38 54 39 mail: breezecom@breezecom.fr hina hone: +86 10 6515 5833/34 ax: +86 10 6515 5833/34 ax: +86 10 6515 5833/34 ix: +86 10 6515 5833/34 ax: +86 10 6515 5833/34 ax: +86 20 6515 5833/34 ax: +86 10 6515 5835 mail: breeze-china@breezecom.co.il	Mechanical Dimensions Outdoor Unit Outdoor Unit with Integrated Antenna Indoor Unit Environmental Operating Temperature Operating Humidity Standards Compliance, General EMC	500 / 250 mA 30.5 x 12 x 5 cm 30 x 30 x 7.2 cm 15.4 x 8.4 x 5.6 cm Indoor unit: 0°C to 40°C Outdoor unit: -40°C to 55°C 5% to 95% non-condensing. EN 300-385, FCC Part 15	12 x 12 x 2.8 in 6.1 x 3.3 x 2.2 in Outdoor units are weather pro -CORE	otected	





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BreezeNET[®] DS.11

Wireless Outdoor Bridging

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The BreezeNET DS.11 Wireless Outdoor Bridge offers a whole new dimension in reliable, high performance, wireless connectivity. Bridging campuses, buildings or any remote sites, BreezeNET DS.11 Wireless Outdoor Bridge provides the ideal point-to-point and point-to-multipoint solutions in the unlicensed 2.4GHz ISM band.



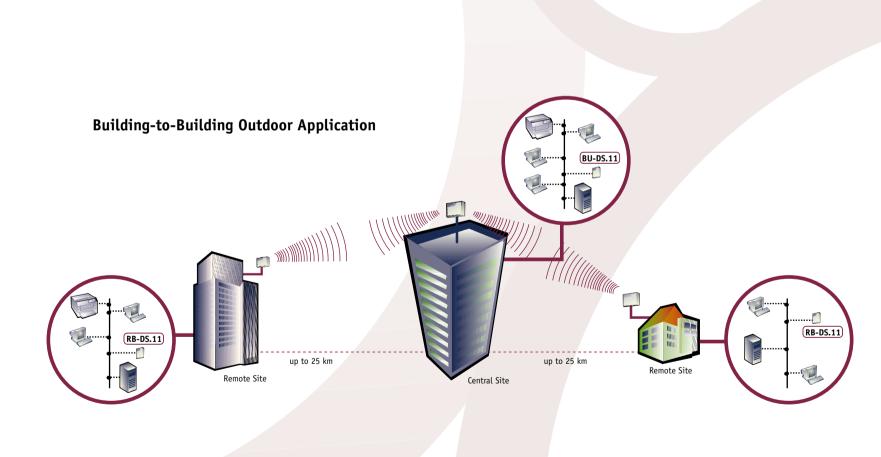
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Highlights

- Indoor-outdoor architecture for maximum range and reliability
- Optimized for outdoor building-to-building applications
- Dynamic output power range for maximum distances in all regulatory domains (-4 dBm to +24 dBm)
- Up to 25 km (15 miles) distance in FCC and 10 km in ETSI @ 11 Mbps
- Extremely high sensitivity
- RC4 40-bit key WEP encryption
- Extensive LED diagnostics including 10-LED RSSI bar display for easy antenna alignment
- IEEE 802.11b and 802.3 compatible
- User friendly configuration and management utility

Optimized for Outdoor Applications

The unique indoor-outdoor architecture of the BreezeNET DS.11 Wireless Outdoor Bridge enables unprecedented range and capacity. The outdoor unit, containing the radio, is placed together with the antenna. The indoor and outdoor units are connected at baseband frequencies, allowing the use of a low cost, easy to install UTP cable with no signal loss.



Fast and Reliable

The BreezeNET DS.11 Wireless Outdoor Bridge accommodates network links at up to 11 Mbps, covering distances of up to 25 km (15 miles) in diverse environments, unaffected by adverse weather conditions such as fog, rain, snow and wind. Dynamic output power range allows the unit to maximize range in a variety of regulatory domains.

Standards Compliant

The BreezeNET DS.11 Wireless Outdoor Bridge adheres to the IEEE 802.11b standard for high speed wireless LANs, is Wi-Fi compliant and is interoperable with other 802.11b compliant products. It complies with both FCC and ETSI regulations for wireless point-topoint and point-to-multipoint communications in the unlicensed 2.4GHz ISM band.

Security

The BreezeNET DS.11 Wireless Outdoor Bridge features advanced security architecture to prevent eavesdropping and hacking when using the wireless network. Wired equivalent privacy (WEP), using RC4 40-bit key encryption algorithm as defined in the IEEE 802.11 standard, enable users to benefit from high-performance connectivity with data transfer at privacy levels equivalent to those of wired systems.

Effortless Installation

The indoor-outdoor architecture of the BreezeNET DS.11 Wireless Outdoor Bridge allows for quick deployment by a single installer. The unit is easily mounted and cables are simple to connect. Antenna alignment is achieved using a 10 LED Radio Signal Strength Indicator bar display, located in the outdoor unit. Implementation of a DHCP client allows for dynamic allocation of IP addresses. A remote configuration utility eliminates the need to locally set parameters.

Cost Effective



Indoor Unit

Comparable in functionality with higher priced wireless bridging products, the BreezeNET DS.11 Wireless Outdoor Bridge product uses low cost cabling and connects to inexpensive enterprise Ethernet switches and routers. Easy installation, network management and use of the unlicensed spectrum achieve low cost of ownership.

The Products

A BreezeNET DS.11 Wireless Outdoor Bridge solution includes a base unit and one or more remote bridges. Both the base unit and the remote bridge are comprised of an indoor unit and an outdoor unit. The outdoor unit is available with an integrated antenna, or with an RF connection to an external antenna.

BU-DS.11 Base Unit is used to connect the central site to up to 128 remote sites. The base unit connects directly to a 10Base-T Ethernet network via an RJ-45 connection.

RB-DS.11 Remote Bridge connects a remote Ethernet network to the central site via the base unit and can handle a network of up to 1024 stations. The remote bridge connects to the Ethernet network via a 10Base-T RJ-45 connection.



Outdoor Unit