

BreezeNET DS.5800 Wireless Bridging

Panning the airwaves

The BreezeNET DS.5800 series of products - designed specifically for challenging environments and adverse weather conditions - provides efficient, cost-effective point-to-point and point-to-multipoint wireless bridging and backhauling. Operating in the 5.8 GHz band, the DS.5800 can bridge distances of up to 50km (30 miles) at 11 Mbps, making it an ideal solution for Internet backhauls, campus interconnectivity and community-wide networking.

Providing an indoor-outdoor architecture wireless infrastructure for optimal range and capacity, BreezeNET DS.5800 leverages Direct Sequence Spread Spectrum technology, which is ideally suited for high speed building-to-building connectivity, providing optimal service to broadband applications and enables wireless Internet backhauls without exposure to interference from more common 2.4 GHz systems.

BreezeNET DS.5800 is designed to transmit in the unlicensed 5.8 GHz band, which combined with the use of low cost cabling, easy installation, rapid scalability and seamless integration into existing Ethernet networks, ensures maximum cost efficiency.

Featuring quick and easy network installation and SNMP remote management, BreezeNET DS.5800 is immediately deployable and scales easily to the changing needs of the network environment. BreezeNET ensures uncompromising security to prevent hacking, data theft and hostile intrusions.

Product Highlights

BreezeNET DS.5800 delivers a comprehensive range of product features, ensuring fast, consistent and reliable networking services, including...

- Indoor-outdoor architecture ensures unprecedented range and reliability.
- Data rates of up to 11 Mbps.
- Range of up to 50 km (30 miles).
- Maximum sensitivity.
- Compatibility with any standard Ethernet switch and router.
- Full LED diagnostics, featuring 10-LED RSSI bar display for easy antenna alignment.
- Built-in remote diagnostics, which minimize maintenance and maximize savings.
- Full SNMP Manageability.
- Smart DHCP client for automatic IP address assignment.

BreezeNET DS.5800 System Components

BU-DS.5800 Base Unit	Connects directly to the 10Base-T Ethernet backbone using a RJ-45 connector and links the central network point to up to 128 remote sites.
RB-DS.5800 Remote Bridge	Connects directly to the 10Base-T Ethernet backbone using a RJ-45 connector and links a remote Ethernet network to the central point via the Base Unit, servicing up to 1024 stations.

Please see the ordering guide for part numbers and accessories

BreezeNET DS.5800 - Record-breaking reach, superb reliability

BreezeCOM and Floware unite



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Specifications

Radio

Frequency Range	5.725-5.850 GHz		
Radio Type	Direct Sequence Spread Spectrum (DSSS)		
Radio Compliance	CFR47 15.247		
Selectable Sub-Channels	FCC	1-14, 4 non-overlapping	
	Low Channel	5740 MHz	
	High Channel	5812 MHz	
Output Power (at the antenna port)	Software controlled	6, 9, 12, 15, 18, 20, 22, 24 (dBm)	
Sensitivity (BER 1E10-6)	Data Rate	Sensitivity	Modulation
	11 Mbps	-85 dBm	256 CCK
	5.5 Mbps	-88 dBm	16 CCK
	2 Mbps	-90 dBm	DQPSK
	1 Mbps	-93 dBm	DBPSK
2.4 GHz I/F rejection	35 dB Nominal (optional 40 dB rejection bandpass filter available in detached models)		
Integrated Antenna Type	Flat Panel 21 dBi, 14° x 11° Vertical /Horizontal (integrated antenna models)		

Range (FCC)

Point-to-point	Up to 50 km (30 miles)
Point-to-multipoint	Up to 18 km (11 miles)

Security

Authentication and Data Encryption	RC4 WEP
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Configuration and Management

Management and Setup	SNMP based enhanced windows platform configuration utility	
Site Survey Tool	Integrated into the configuration utility	
SNMP Agents	MIB II, Bridge MIB, DS.11 Private MIBs	
Software Upgrade	Simultaneous multiple units software upgrade using the configuration utility TFTP download	
LED Indicators	Indoor Interface Unit	Outdoor Unit
	Power status	Power Status
	End-to-end Ethernet status	10-LED display bar: RSSI in the RB/ Load Gauge in BU Ethernet Status / Traffic Wireless Link Status / Traffic

Outdoor Unit-to-Indoor Unit Communication

Cable Type	Cat 5 STP 4x2x24 Double Jacket
Maximum Cable length between indoor and outdoor units	90 m (280 feet) 30 m (98 feet) cable is included

Interfaces

RF (antenna) connector in the outdoor unit	N-Type jack, lightning protected
Baseband (indoor-to-outdoor units)	Outdoor units: Shielded RJ-45 with special water proof sealed cap Indoor units: Shielded RJ-45
Ethernet	Indoor units: 10BaseT, (RJ-45) with 2 embedded LEDs

Electrical

Power Consumption	110 / 220 V 1.75 / .9 A
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Mechanical Dimensions

Outdoor Unit	30.5 x 12 x 5 cm	12 x 4.7 x 2 in
Outdoor Unit with Integrated Antenna	30 x 30 x 7.2 cm	12 x 12 x 2.8 in
Indoor Unit	15.4 x 8.4 x 5.6 cm	6.1 x 3.3 x 2.2 in

Environmental

Operating Temperature	Indoor unit: 0°C to 40°C Outdoor unit: -40°C to 55°C
Operating Humidity	5% to 95% non-condensing. Outdoor units are weather protected

Standards Compliance, General

EMC	EN 300-385, FCC Part 15
Safety	EN 60950, UL 1950
Environmental	ETS 300 019, Bellcore GR-63-CORE