BreezeNET®
Model D
Antenna
Kits

Catalog

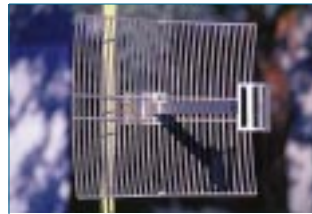# *Products*

Omni-2

Omni-6

Omni-7.2

Uni-8.5 & Uni-8.5Ext

Uni-11P-75 & Uni-13P

Uni-16P

Uni-18

Uni-24

Model Order No.	Ant. Gain†	Kit Gain‡	Dispersion (Oriented vertically as pictured)	Mounting Wall	Mast	Dimensions H x W x D	Cable Length	Kit Contains:	Ideal for:
OMNI-6 872108	6 dBi	5 dBi	360° H/26° V	S	0	13" x 0.75" Tubular	4-ft	OMNI-6 Antenna Mounting Hardware 4-ft Cable Assembly	Extending indoor range of access points and station adapters
OMNI-7.2 872914	7.2 dBi	6 dBi	360° H/22° V	S	S	16" x 0.75" Tubular	20-ft	OMNI-7.2 Antenna Mounting Hardware 20-ft Cable Assembly	Establishing 360° coverage for outdoor multipoint links
UNI-8.5 872109	8.5 dBi	6 dBi	75° H/60° V	S	N/A	4" x 3.7" x 1.2"	8-ft	UNI-8.5 Antenna Mounting Hardware 8-ft Cable	Extending indoor range of access points and/or station adapters
UNI-8.5Ext 872909	8.5 dBi	6.5 dBi	75° H/60° V	S	O	4" x 3.7" x 1.2"	8-ft	UNI-8.5 Antenna Mounting Hardware 8-ft Cable Assembly	Short range outdoor multipoint links
UNI-11P-75 872917	11 dBi	9 dBi	75° H/28° V	O	S	11" x 7.5" x 3.5"	30-ft	UNI-11P-75 Antenna Mounting Hardware 30-ft Cable Assembly	ISPs, school districts, and campus area networks requiring wide dispersion patterns
UNI-13P 872913	13 dBi	11 dBi	46° H/28° V	O	S	11" x 7.5" x 3.5"	20-ft	UNI-13P Antenna Mounting Hardware 20-ft Cable Assembly	Medium range outdoor multipoint links
UNI-16P 872916	16 dBi	14 dBi	28° H/28° V	O	S	11" x 11" x 3.5"	30-ft	UNI-16P Antenna Mounting Hardware 30-ft Cable Assembly	Medium to long range outdoor multipoint links requiring compact form factors
UNI-18 872918	18 dBi	15 dBi	12° H/14° V	O	S	16" x 20" X 15"	30-ft	UNI-18 Antenna Mounting Hardware 30-ft Cable Assembly	Long range outdoor point-to-point and multipoint links
UNI-24 872924	24 dBi	19 dBi	6° H/10° V	O	S	24" x 36" x 15"	50-ft	UNI-24 Antenna Mounting Hardware 50-ft Cable Assembly	Long range outdoor point-to-point links

† Antenna Gain is the gain of the antenna without the cable.
‡ Kit Gain is the actual gain of the antenna kit as it is shipped from BreezeCOM.
O = Optional
S = Standard

Accessories

AL-1

SPF-1

LNA-10

EXT-10 thru EXT-200

BR-WM6

BR-WM12

BR-WMAST

Model Order No.	Description	Application
AL-1 872905	In-line lightning arrestor with 5-ft extension cable, wall mount bracket (requires ground strap)	Recommended for ALL outdoor antennas, helps prevent damage due to nearby lightning strikes
SPF-1 872911	In-line band pass filter	Recommended for higher gain antennas, reduces out-of-band interference and emissions
LNA-10 872219	Low Noise Receive Pre-Amplifier	Use with receive antennas of any gain, provides a 5 dB boost
LNA-10 872249	Same as above, except 240 VAC	Use with receive antennas of any gain, provides a 5 dB boost
EXT-10 872910 EXT-20 872920 EXT-30 872930 EXT-50 872950 EXT-70 872970 EXT-100 8729100 EXT-150 8729150 EXT-200 8729200	10-ft LMR600 Extension Cable 20-ft LMR600 Extension Cable 30-ft LMR 600 Extension Cable 50-ft LMR 600 Extension Cable 70-ft LMR 600 Extension Cable 100-ft LMR 600 Extension Cable 150-ft LMR 600 Extension Cable 200-ft LMR 600 Extension Cable	Use instead of, or in addition to cable provided with antennas
BR-WM6 872241	Wall or mast mount bracket for one or two OMNI-6, OMNI-7.2, UNI-8.5	Enables multiple antennas to be mounted side-by-side
BR-WM12 872156	Wall or mast mount bracket for one or two UNI-18, UNI-24	Enables multiple antennas to be mounted side-by-side
BR-WMAST 872901	Wall mount for 12" mast for use with any mast-mount antenna	Enables a single mast mount antenna to be mounted on a parapet, wall or under eaves

BreezeCOM's BreezeNET® Model D Antenna Kits offer unparalleled flexibility and the widest range of configurations available today for building-to-building and in-building wireless networking applications. This comprehensive line of omni- and uni-directional antennas can be mixed and matched to create point-to-point and multipoint LAN-to-LAN connections up to eight miles apart. By choosing the optimum gain and dispersion patterns from BreezeNET's extensive line of detachable antennas, you can set up high performance network links for almost any application including ISP connections, and industrial, educational, health care, and retail networks, to name just a few.

Like all BreezeNET products, antenna installation is a breeze, thanks to small form factors, light weight, and low wind resistance. Easy to use mounting hardware fits a wide variety of masts and may also be attached to walls and ceilings, simplifying installation, while saving both time and money for value added resellers, systems integrators, and end users.

A wide range of accessories, including extension cables, lightning arrestors, and amplifiers are available to accommodate any type of outdoor or indoor environment.

BreezeNET PRO Series
Range matrix for maximum distance (1Mbps)
USA-FCC

Ant. type	Asmbly gain	Omni-2 2 dBi	Omni-6 5 dBi	Omni-7 6 dBi	Uni-8.5 6.5 dBi	Uni-11 9 dBi	Uni-13 11 dBi	Uni-16 14 dBi	Uni-18 15 dBi	Uni-24 19 dBi
Omni-2	2 dBi	2500 ft	3800 ft	3900 ft	4000 ft	1.0 mi	1.2 mi	1.4 mi	1.5 mi	1.9 mi
Omni-6	5 dBi	3800 ft	4300 ft	4600 ft	4800 ft	1.2 mi	1.5 mi	1.7 mi	1.8 mi	2.2 mi
Omni-7	6 dBi	3900 ft	4600 ft	4800 ft	1.0 mi	1.3 mi	1.6 mi	1.8 mi	1.9 mi	2.3 mi
Uni-8.5	6.5 dBi	4000 ft	4800 ft	1.0 mi	1.1 mi	1.4 mi	1.7 mi	1.9 mi	2.0 mi	2.4 mi
Uni-11	9 dBi	1.0 mi	1.2 mi	1.3 mi	1.4 mi	1.7 mi	2.0 mi	2.3 mi	2.5 mi	2.9 mi
Uni-13	11 dBi	1.2 mi	1.5 mi	1.6 mi	1.7 mi	2.0 mi	2.2 mi	2.6 mi	2.8 mi	3.2 mi
Uni-16	14 dBi	1.4 mi	1.7 mi	1.8 mi	1.9 mi	2.3 mi	2.6 mi	3.1 mi	3.4 mi	3.7 mi
Uni-18	15 dBi	1.5 mi	1.8 mi	1.9 mi	2.0 mi	2.5 mi	2.8 mi	3.4 mi	3.5 mi	4.0 mi
Uni-24	19 dBi	1.9 mi	2.2 mi	2.3 mi	2.4 mi	2.9 mi	3.2 mi	3.7 mi	4.0 mi	6.0 mi

BreezeNET PRO Series
Range matrix for median throughput (2 Mbps)

Ant. type	Asmbly gain	Omni-2 2 dBi	Omni-6 5 dBi	Omni-7 6 dBi	Uni-8.5 6.5 dBi	Uni-11 9 dBi	Uni-13 11 dBi	Uni-16 14 dBi	Uni-18 15 dBi	Uni-24 19 dBi
Omni-2	2 dBi	1500 ft	2000 ft	2300 ft	2500 ft	0.6 mi	0.7 mi	0.8 mi	0.9 mi	1.1 mi
Omni-6	5 dBi	2000 ft	2400 ft	2600 ft	2800 ft	0.7 mi	0.9 mi	1.0 mi	1.1 mi	1.3 mi
Omni-7	6 dBi	2300 ft	2600 ft	2900 ft	3000 ft	0.8 mi	1.0 mi	1.2 mi	1.3 mi	1.4 mi
Uni-8.5	6.5 dBi	2500 ft	2800 ft	3000 ft	0.6 mi	0.8 mi	1.0 mi	1.3 mi	1.3 mi	1.5 mi
Uni-11	9 dBi	0.6 mi	0.7 mi	0.8 mi	0.8 mi	0.9 mi	1.1 mi	1.4 mi	1.5 mi	1.7 mi
Uni-13	11 dBi	0.7 mi	0.9 mi	1.0 mi	1.0 mi	1.1 mi	1.2 mi	1.5 mi	1.7 mi	2.0 mi
Uni-16	14 dBi	0.8 mi	1.0 mi	1.2 mi	1.3 mi	1.4 mi	1.5 mi	1.8 mi	2.0 mi	2.6 mi
Uni-18	15 dBi	0.9 mi	1.1 mi	1.3 mi	1.3 mi	1.5 mi	1.7 mi	2.0 mi	2.2 mi	2.8 mi
Uni-24	19 dBi	1.1 mi	1.3 mi	1.4 mi	1.5 mi	1.7 mi	2.0 mi	2.6 mi	2.8 mi	3.5 mi

BreezeNET PRO Series
Range matrix for maximum throughput (3Mbps)
USA - FCC

Ant. type	Asmbly gain	Omni-2 2 dBi	Omni-6 5 dBi	Omni-7 6 dBi	Uni-8.5 6.5 dBi	Uni-11 9 dBi	Uni-13 11 dBi	Uni-16 14 dBi	Uni-18 15 dBi	Uni-24 19 dBi
Omni-2	2 dBi	500 ft	750 ft	800 ft	850 ft	1200 ft	1600 ft	0.4 mi	0.5 mi	0.6 mi
Omni-6	5 dBi	750 ft	900 ft	1000 ft	1100 ft	1600 ft	2000 ft	0.5 mi	0.6 mi	0.7 mi
Omni-7	6 dBi	800 ft	1000 ft	1000 ft	1200 ft	1700 ft	2100 ft	0.6 mi	0.7 mi	0.8 mi
Uni-8.5	6.5 dBi	850 ft	1100 ft	1200 ft	1400 ft	2200 ft	0.5 mi	0.7 mi	0.7 mi	0.9 mi
Uni-11	9 dBi	1200 ft	1600 ft	1700 ft	2200 ft	0.5 mi	0.6 mi	0.8 mi	0.9 mi	1.0 mi
Uni-13	11 dBi	1600 ft	2000 ft	2100 ft	0.5 mi	0.6 mi	0.7 mi	0.9 mi	1.0 mi	1.2 mi
Uni-16	14 dBi	0.4 mi	0.5 mi	0.6 mi	0.7 mi	0.8 mi	0.9 mi	1 mi	1.1 mi	1.4 mi
Uni-18	15 dBi	0.5 mi	0.6 mi	0.7 mi	0.7 mi	0.9 mi	1.0 mi	1.1 mi	1.2 mi	1.5 mi
Uni-24	19 dBi	0.6 mi	0.7 mi	0.8 mi	0.9 mi	1.0 mi	1.2 mi	1.4 mi	1.5 mi	2 mi

The range figures assume line-of-sight with enough clearance between the antennas.
Those figures may vary according to specific multipath and interference situations.
* The maximum range can be increased by up to 40% by using two antennas per unit and a low noise receiving amplifier (LNA-10).

BREEZECOM ®
Wireless Communications

BreezeCOM is a leader in the development and production of wireless communications products for telecommunications, data communications and wireless LAN applications. Our high performance products use frequency-hopping, spread-spectrum radio technology and operate in the license-free 2.4 GHz ISM (industrial, scientific and medical) band. Already proven in building-to-building, in-building and mobile applications, BreezeCOM's BreezeNET product line is up to three times faster than the competition, and offers superior range—up to 8 miles outdoors, 600-ft indoors and at roaming speeds of up to 50 mph. Software upgradeable to the new 802.11 standard and compatible with 802.3 Ethernet, BreezeNET products are extremely reliable, easy to install and offer an exceptionally cost-effective way to add connectivity in your organization.

Visit us on the web:
http://www.breezecom.com

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