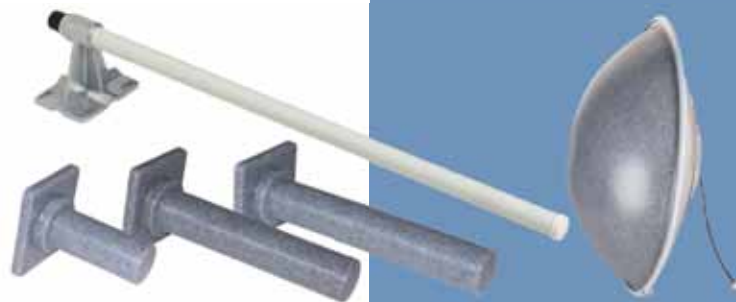


Data Sheet

SMCANT-00M8
SMCANT-DI105
SMCANT-DI135
SMCANT-DI145
SMCANT-DI215



2.4GHz Wireless High-Gain Antennas

The SMC range of high-gain universal, point-to-point, point-to-multi-point, parabolic antennas, and the new Omni-directional antennas provide the perfect solution for those applications where greater distance or structural penetration is necessary.

The new SMCANT-00M8 8dBi Omni-Directional Antenna is an optimal solution for midrange, point-to-multi-point, and building-to building applications.

The SMCANT-DI105 is a high-gain wide dispersion antenna perfect for wireless LAN solutions or customer premise equipment.

The SMCANT-DI135 is a perfect universal antenna that can be used in a wireless LAN, point-to-point, or customer premise environment. This multi-purpose antenna provides superior structural penetration, point-to-point ranges of up to 7 miles, and can act as a general-purpose point-to-multi-point antenna.

The SMCANT-DI145 is the market's premier point-to-point beam and higher gain provide seamless connectivity up to 9 miles. When greater structural penetration is needed, the DI145 is also the choice for indoor/outdoor wireless build-out applications.

The SMCANT-DI215 has the narrowest beam and highest gain which is ideal for long-range point-to-point applications.

SMCANT-CEILINGBOX is an ideal solution providing wireless coverage for any medium to large indoor installation. It consists of a 5 dBi omni-directional antenna, SMCAMP-1000 1 Watt Amplifier, SMCAMP-INJ Power Injector, and Power over Ethernet Remote Unit. It is designed to work with a SMC2582W-B Wireless Bridge in large areas such as warehouse, multiple-floor office buildings, and hospitals. The SMCANT-CEILINGBOX fits in a standard suspended ceiling structure, supports Power over Ethernet, and is easy to install.

Antenna cables, amplifiers, mounting arm, and desktop stand are available for the full line of SMC high-gain antennas. Call your SMC representative for details.

Product	Model No	Description
Wireless High-Gain Antennas	SMCANT-00M8	Wireless High Gain 8dBi Omni-Directional Antenna
	SMCANT-DI105	Wireless High-Gain 10.5dBi Antenna
	SMCANT-DI135	Wireless High-Gain 13.5dBi Antenna
	SMCANT-DI145	Wireless High-Gain 14.5dBi Antenna
	SMCANT-DI215	Wireless High-Gain 21.5dBi Parabolic Dish Antenna
	SMCANT-KIT	Wireless High-Gain Antenna Kit
	SMCAMP-500	500mW Power over Ethernet Amplifier
	SMCAMP-1000	1 Watt Power over Ethernet Amplifier
	SMCANT-CEILINGBOX	2.4GHz High Gain Antenna Ceiling Box Kit
	SMCAMP-INJ	Power Injector
	SMCANT-DS	Antenna Desktop Stand
	SMCANT-MA	Antenna Mounting Arm
	SMCANT-CAB25 25"	LMR 195 Antenna Cable with SMA-Female to N-Male Connectors
	SMCANT-CAB78 78"	LMR 400 Antenna Cable with RP-TNC-Female to N-Male Connectors
	SMCANT-CAB25F 25'	LMR 400 Antenna Cable with RP-TNC-Female to N-Male Connectors
SMCANT-CAB50F 50'	LMR 400 Antenna Cable with RP-TNC-Female to N-Male Connectors	
SMCANT-CAB75F 75'	LMR 400 Antenna Cable with RP-TNC-Female to N-Male Connectors	
SMCANT-CAB50FNN 50'	LMR 400 Antenna Cable with N-Male to N-Male Connectors	

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Specifications

SMCANT-OOM8*

Freq Range
2400 - 2500 MHz
Gain
8.0 dBi
VSWR
2.0 : 1 Max.
Polarization
Linear, vertical
HPBW / horizontal
360°
HPBW / vertical
15°
Downtilt
0°
Power handling
50 W (cw)
Impedance
50 Ohms
Connector
N Female

SMCANT-DI105*

Freq Range
2.400-2.483 GHz
Gain
10.5 dBi
Polarization
Elliptical
Connector
N Female
Beam width (-3db)
50 Degrees
VSWR
<1.22
F/B Ratio
28 dB
Impedance
50 Ohm
Height
4.58"
Width
4.37"
Length
6.28"
Weight
11.0 oz.
Wind Loading
100-125 mph
Max Range
1.0 - 3.5 miles

SMCANT-DI135*

Freq Range
2.400-2.483 GHz
Gain
13.5 dBi
Polarization
Elliptical
Connector
N Female
Beam width (-3db)
36 Degrees
VSWR
<1.22
F/B Ratio
26 dB
Impedance
50 Ohm
Height
4.58"
Width
4.37"
Length
10.85"
Weight
19.5 oz.
Wind Loading
100-125 mph
Max Range
7.0 miles

SMCANT-DI145*

Freq Range
2.400-2.483 GHz
Gain
14.5 dBi
Polarization
Elliptical
Connector
N Female
Beam width (-3db)
26 Degrees
VSWR
<1.22
F/B Ratio
15 dB
Impedance
50 Ohm
Height
4.58"
Width
4.37"
Length
12.46"
Weight
23.0 oz.
Wind Loading
100-125 mph
Max Range
9.0 miles

SMCANT-DI215*

Freq Range
2.400-2.483 GHz
Gain
21.5 dBi
Polarization
Elliptical
Connector
N Female
Beam width (-3db)
14 Degrees
VSWR
<1.22
F/B Ratio
25 dB
Impedance
50 Ohm
Depth
18"
Diameter
24"
Weight
17 lbs.
Wind Loading
100-125 mph
Max Range
20 miles

Angle Distance
Point-to-Multipoint
1.8 Miles

Angle Distance
Using
SMCAMP-500 9Miles
SMCAMP-1000 12Miles
Point-to-Point
20° 4.5Miles
45° 4.0Miles
90° 3.5Miles
180° 3.0Miles
270° 2.0Miles
360° 1.5Miles

Angle Distance
Using
SMCAMP-500 14Miles
SMCAMP-1000 20Miles
Point-to-Point /
Multi-point 7 Miles
45° 4.5 Miles
60° 4.0Miles
90° 3.5Miles
180° 2.5Miles
270° 1.5Miles
360° 1.0Miles

Angle Distance
Using
SMCAMP-500 16Miles
SMCAMP-1000 24Miles
Point-to-Point
20° 4.0Miles
90° 3.0Miles
134° 2.0Miles
180° -360° 1.0Mile

Angle Distance
Using
SMCAMP-500 60Miles
0° - 7° 20Miles
7° - 14° 13Miles
14° - 90° 1.5Miles
90° - 135° 0.15Miles
135° -180° 0.05Miles

SMCANT-CEILINGBOX*

Coverage:
30,000 sf
Polarization:
Elliptical
Total Power Output:
35 dBi
Beam Width:
3600
VSWR:
<1.22
Impedance:
50 Ohm
Dimensions:
13.12"l x 12" w x 5" h
Weight:
16 lbs
Mounting:
Suspended Ceiling
Arms included
Connector:
RJ45

SMCAMP-500*

Freq Range
2.400-2.500 GHz
Power over Ethernet
(PoE) Compatible
Output Power:
500mW
Operating Mode:
Bi-directional TDD
Frequency Response:
+/- 1dB
TX Input Power:
+1dBm
Receiver Gain:
18 dB Typical
Noise Figure:
<=3 dB
Connectors:
N-type Female
Power:
12-48V 5W (max)
Dimension:
3.75" x 3" x 1.25"
Operating Temperature:
40oC to +70oC

SMCAMP-1000*

Freq Range
2400-2.500 MHz
Power over Ethernet
(PoE) Compatible
Output Power:
1 Watt
Operating Mode:
Bi-directional TDD
Frequency Response:
+/- 1dB
TX Input Power:
+1dBm
Receiver Gain:
18 dB Typical
Noise Figure:
<=3 dB
Connectors:
N-type Female
Power:
12-48V 5W (max)
Dimension:
3.75" x 3" x 1.25"
Operating Temperature:
40oC to +70oC

SMCAMP-INJ**

Dimensions:
5.3" x 2.1" x 1.2"
Weight:
8oz
Input Voltage:
5 - 48 V
Input Power Jack:
5.5mm x 2.1mm
Center Positive
Input & Output Ethernet Jack:
RJ45
IEEE 802.3af
Compliant
RJ45 DC Output
Polarity Switchable

*Perfect for use with SMC's 2.4GHz Wireless Bridge (SMC2582W-B)

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2.4GHz Wireless High-Gain Antennas



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