

### DIRECTIONAL ANTENNAS

#### SMCANT-DI105

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### GAIN

- 10.5 dBi

##### VSWR

- < 1.22

##### POLARIZATION

- Circular

##### BEAM WIDTH

- Horizontal: 50°
- Vertical: 50°

##### F/B RATIO

- 28 dB

##### WIND LOADING

- 160-200 kmh / 100-125 mph

##### MAX. RANGE

- 4.8 km / 3.5 miles

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

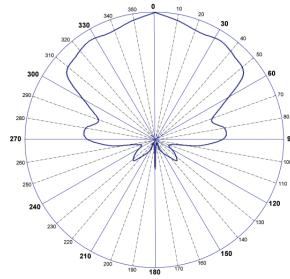
- N female

##### DIMENSIONS

- 116 x 111 x 160 mm
- 4.58 x 4.37 x 6.28 in

##### WEIGHT

- 312 g / 0.688 lbs



SMCANT-DI105

#### SMCANT-DI135

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### GAIN

- 13.5 dBi

##### VSWR

- < 1.22

##### POLARIZATION

- Circular

##### BEAM WIDTH

- Horizontal: 36°
- Vertical: 36°

##### F/B RATIO

- 26 dB

##### WIND LOADING

- 160-200 kmh / 100-125 mph

##### MAX. RANGE

- 8 km / 5.0 miles

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

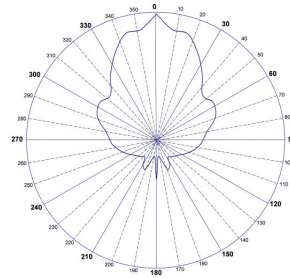
- N female

##### DIMENSIONS

- 116 x 111 x 276 mm
- 4.58 x 4.37 x 10.85 in

##### WEIGHT

- 553 g / 1.22 lbs



SMCANT-DI135

#### SMCANT-DI145

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### GAIN

- 14.5 dBi

##### VSWR

- < 1.22

##### POLARIZATION

- Circular

##### BEAM WIDTH

- Horizontal: 26°
- Vertical: 26°

##### F/B RATIO

- 15 dB

##### WIND LOADING

- 160-200 kmh / 100-125 mph

##### MAX. RANGE

- 14 km / 9.0 miles

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

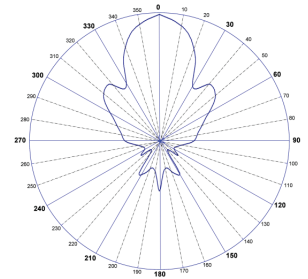
- N female

##### DIMENSIONS

- 116 x 111 x 316 mm
- 4.58 x 4.37 x 12.46 in

##### WEIGHT

- 652 g / 1.44 lbs



SMCANT-DI145

#### SMCANT-DI215

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### GAIN

- 21.5 dBi

##### VSWR

- < 1.22

##### POLARIZATION

- Circular

##### BEAM WIDTH

- Horizontal: 14°
- Vertical: 14°

##### F/B RATIO

- 25 dB

##### WIND LOADING

- 160-200 kmh / 100-125 mph

##### MAX. RANGE

- 32 km / 20.0 miles

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

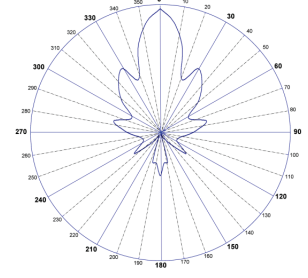
- N female

##### DIMENSIONS

- 610 x 457 mm / 24 x 18 in

##### WEIGHT

- 7.7 kg
- 17 lbs



SMCANT-DI215



## TECHNICAL SPECIFICATIONS

## OMNI-DIRECTIONAL ANTENNAS / FLAT PANEL ANTENNAS

### OMNI-DIRECTIONAL ANTENNAS / FLAT PANEL ANTENNAS

#### SMCANT-OOM5P

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### GAIN

- 5.0 dBi

##### VSWR

- <1.22

##### POLARIZATION

- Circular

##### BEAM WIDTH

- 360°

##### DOWNTILT

- 0°

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

- SMA

##### DIMENSIONS

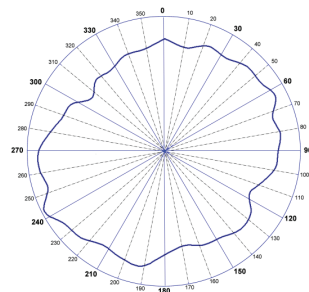
- 2.25 x 4.0 x 4.0 in
- 57.15 x 101.6 x 101.6 mm

##### WEIGHT

- 8.0 oz
- 0.5 lbs

##### WIND RATING

- 100-125 mph



SMCANT-OOM5P

#### SMCANT-OOM8

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### GAIN

- 8.0 dBi

##### VSWR

- 2.0 : 1 max.

##### POLARIZATION

- Linear, vertical

##### BEAM WIDTH

- Horizontal: 360°
- Vertical: 15°

##### DOWNTILT

- 0°

##### POWER HANDLING

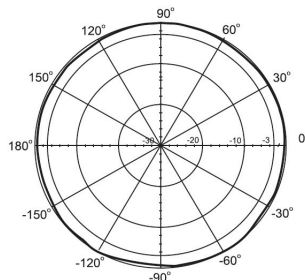
- 50W (cw)

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

- N female



SMCANT-OOM8

#### SMCANT-OOM10

##### FREQUENCY RANGE

- 5.5-5.8GHz

##### GAIN

- 10 dBi

##### VSWR

- 2.0 : 1 max.

##### POLARIZATION

- Linear, Vertical

##### BEAM WIDTH

- Horizontal: 360 degrees
- Vertical: 7 degrees

##### DOWNTILT

- 2 degrees

##### POWER HANDLING

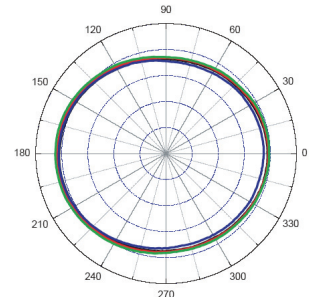
- 50W (cw)

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

- N Female



SMCANT-OOM10

### FLAT PANEL ANTENNAS

#### SMCANT-DIFP11

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### GAIN

- 11 dBi

##### VSWR

- < 1.22

##### POLARIZATION

- Circular

##### BEAM WIDTH

- Horizontal: 70°
- Vertical: 70°

##### WIND LOADING

- 160-200 kmh / 100-125 mph

##### MAX. RANGE

- MAX. Range 5KM / 3.0 miles

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

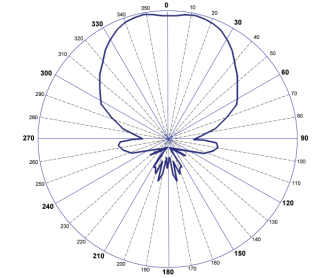
- N female

##### DIMENSIONS

- 25 x 102 x 102 mm / 1 x 4 x 4 in

##### WEIGHT

- 198 g / 0.438 lbs



SMCANT-DIFP11

#### SMCANT-DIFP18

##### FREQUENCY RANGE

- 4.9-5.8GHz

##### GAIN

- 18 dBi

##### VSWR

- 2.0 : 1 max.

##### POLARIZATION

- Linear, Vertical

##### BEAM WIDTH

- Horizontal: 20 degrees
- Vertical: 20 degrees

##### DOWNTILT

- 0°

##### POWER HANDLING

- 10W (cw)

##### IMPEDANCE

- 50 Ohms

##### CONNECTOR

- N Female



SMCANT-DIFP18



## TECHNICAL SPECIFICATIONS

## HIGH POWER CEILING BOX / AMPLIFIERS

### HIGH POWER CEILING BOX

#### SMCANT-CEILINGBOX

##### FEATURES

- 802.11 b/g
- 5 dBi Omni-Antenna
- Power-Amplifier

##### (EU: 100 mW, US: 500 mW)

- Power-over-Ethernet Adapter
- Wall-mount box

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### GAIN

- 5 dBi

##### VSWR

- < 1.22

##### POLARIZATION

- Circular

##### BEAM WIDTH

- Horizontal: 360°

##### TOTAL POWER OUTPUT

- US: 500 mW (27 dBm)
- EU: 100 mW (20 dBm)

##### IMPEDANCE

- 50 Ohms

##### CONNECTORS

- N female
- RJ-45

##### DIMENSIONS

- 11 x 1 x 2.25 in / 279 x 25 x 57 mm

##### WEIGHT

- 6 lbs / 96 oz

### AMPLIFIERS

#### SMCAMP-500G B/G AMPLIFIER (US ONLY)

##### POWER OUTPUT

- 500 mW

##### OPERATING RANGE

- 2400 - 2500 MHz

##### TX INPUT RANGE

- +10 dBm - +24 dBm

##### RECEIVER GAIN

- <3 dB

##### NOISE FIGURE

- 18 dB (Typical)

##### CONNECTORS

- N female

##### POWER REQUIREMENTS

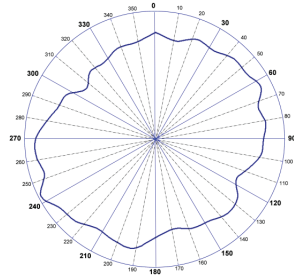
- 12-48V 5W (Typical)

##### POWER OPTIONS

- Power-Over-Ethernet (POE)
- Direct DC
- 802.3af

##### DIMENSIONS

- 3.75 x 3 x 1.25 in / 95x 76 x 32 mm



SMCANT-CEILINGBOX

### WEIGHT

- 11.2 oz / 0.7 lbs

### OPERATING TEMP

- - 40° F to +150° F / -40°c to 56°c

#### SMCAMP-1000G (US only)

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### OUTPUT POWER

- 1000 mW (30 dBm)

##### RECEIVER GAIN

- 18 dB typical

##### OPERATING MODE

- Bi-directional, TDD

##### FREQUENCY RESPONSE

- +/- 1 dB

##### TX INPUT POWER

- + 1 dBm

##### NOISE FIGURE

- <= 3 dB

##### CONNECTORS

- 2x N female

##### POWER

- 12-48V, 5W (max.)
- Optional: Power over Ethernet

##### DIMENSIONS

- 95 x 76 x 32 mm
- 3.75 x 3 x 1.25 in

##### OPERATING TEMPERATURE

- -40°C - 70°C / -40°F - 158°F

#### SMCAMP-500 (US only)

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### OUTPUT POWER

- 500 mW (27 dBm)

##### RECEIVER GAIN

- 18 dB typical

##### OPERATING MODE

- Bi-directional, TDD

##### FREQUENCY RESPONSE

- +/- 1 dB

##### TX INPUT POWER

- + 1 dBm

##### NOISE FIGURE

- <= 3 dB

##### CONNECTORS

- 2x N female

##### POWER

- 12-48V, 5W (max.)
- Optional: Power over Ethernet

##### DIMENSIONS

- 95 x 76 x 32 mm
- 3.75 x 3 x 1.25 in

##### OPERATING TEMPERATURE

- -40°C - 70°C / -40°F - 158°F

### POWER INJECTORS

#### SMCAMP-INJ (US only)

##### ETHERNET

- RJ-45, DC output, Polarity

##### SWITCHABLE

- IEEE802.3af compliant

##### INPUT POWER JACK

- 5.5 x 2.1 mm / 0.22 x 0.08 in
- Center positive

##### INPUT Voltage

- 5-48V

##### DIMENSIONS

- 5.3 x 2.1 x 1.2 mm / .21 x .08 x .05 in

##### WEIGHT

- 227 g / 0.5 lbs

#### SMCAMP-INJ3

##### INPUT POWER REQUIREMENTS

- AC Input Voltage: 90 - 264VAC, 47-63 Hz
- AC Input Current: 2A at 100VAC, 1A at 240VAC (-48VDC)

##### OUTPUT VOLTAGE

- Aggregate Power: 50W (48VDC)
- PoE OUTPUT SPECIFICATION
- PIN Assignments and Polarity:  
(+) 4/5, (-) 7/8

##### LEDs

- AC Power, Power Active, Over Current Protection, Connectors Shielded RJ-45

##### TEMPERATURE

- Operating: 0°C ~ 40°C / 32°F ~ 104°F
- Storage: -25°C ~ 85°C / -13°F ~ 185°F

##### HUMIDITY (NON-CONDENSING)

- Max. 90% in storage

##### DIMENSION

- 101 x 140 x 38 mm/ 4 x 5.5 x 1.5 in

##### WEIGHT

- 626 g / 1.38 lbs

### CABLES

#### SMCANT-CAB25

##### TYPE

- LMR195

##### LENGTH

- 0.635 m / 25 in

##### CONNECTORS

- R-SMA female, N male

#### SMCANT-CAB78

##### TYPE

- LMR400

##### LENGTH

- 1.98 m / 78 in

##### CONNECTORS

- RP-TNC female, N male

#### SMCANT-CAB10FNN

##### TYPE

- LMR400

##### LENGTH

- 7.62 m / 10 ft

### CONNECTORS

- N Male, N Male

#### SMCANT-CAB25F/25FNN

##### TYPE

- LMR400

##### LENGTH

- 7.62 m / 25 ft

##### CONNECTORS

- CAB25F: RP-TNC female, N male
- CAB25FNN: N male, N male

#### SMCANT-CAB50F/50FNN

##### TYPE

- LMR400

##### LENGTH

- 15.24 m / 50 ft

##### CONNECTORS

- CAB50F: RP-TNC female, N male
- CAB50FNN: N male, N male

#### SMCANT-CAB75F

##### TYPE

- LMR400

##### LENGTH

- 22.86 m / 75 ft

##### CONNECTORS

- RP-TNC female, N male

### ACCESSORIES

#### SMA/TNC Converter

##### CONNECTORS

- RP-SMA female, RP-TNC male

#### SMCANT-LP

##### FEATURES

- Lightning Surge Protector

##### FREQUENCY RANGE

- 2.400 - 2.500 GHz

##### CONNECTORS

- N male, N female

#### SMCANT-DS

##### FEATURES

- Antenna Desktop-Stand

#### SMCANT-MA

##### FEATURES

- Antenna Mounting Arm

#### SMCANT-WB

##### DIMENSIONS

- 11.75" x 10.75" x 2.25"

##### WEIGHT

- 6 lbs

##### RATING

- Nema 3



### WIRELESS INFORMATION

#### CONVERSION

##### WATTS (DB)

- 37.5 mW 15 dB
- 75 mW 18 dB
- 100 mW 20 dB
- 125 mW 21 dB
- 100 mW 20 dB
- 250 mW 24 dB
- 500 mW 27 dB
- 1 Watt 30 dB
- 2 Watts 33 dB
- 4 Watts 36 dB
- 8 Watts 39 dB
- 16 Watts 42 dB
- 32 Watts 45 dB

##### CABLE DB LOSS

- SMC-CAB25 1 dB
- SMC-CAB78 1.5 dB
- SMC-CAB25F 2 dB
- SMC-CAB50F 3.5 dB
- SMC-CAB75F 5 dB

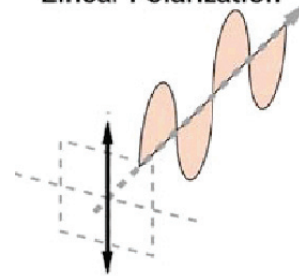
#### LINEAR POLARIZATION:

An antenna is vertically linear polarized when its electric field is perpendicular to the Earth's surface. An example of a vertical antenna is a broadcast tower for AM radio or the whip antenna on an automobile. Horizontally linear polarized antennas have their electric field parallel to the Earth's surface. For example, television transmissions in the USA use horizontal polarization. Thus, TV antennas are horizontally-oriented.

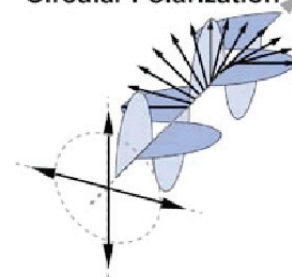
#### CIRCULAR POLARIZATION:

In a circularly-polarized antenna, the plane of polarization rotates in a corkscrew pattern making one complete revolution during each wavelength. A circularly-polarized wave radiates energy in both the horizontal and vertical planes as well as every plane in between. If the rotation is clockwise looking in the direction of propagation, the sense is called right-hand-circular (RHC). If the rotation is counterclockwise, the sense is called left-hand-circular (LHC).

#### Linear Polarization



#### Circular Polarization



### Contact

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