

ComAnt CA450B2 450 MHz Bidirectional Broadside Dipole Array Antenna

Product Code

CA450B2

Polarisation

Vertical (V)

Design Type

Dipole Array

Application Category

Base Station

RF Category

Sub-600 MHz



The CA450B2 antenna provides tuned coverage of the 450 MHz frequency range from 440 to 750 MHz. This stacked dipole configuration exhibits a bidirectional pattern to antenna broadside, providing 6 dBi gain in East-West directions as measured from boresight. The array consists of two dipoles mounted at 180° and phasing combiner.

With a bidirectional radiation pattern, this antenna is suitable for LTE B31 (450 MHz) infill / small cell, along with a range of 400 MHz UHF applications. Designed and manufactured to IP67 in Finland, the antenna has been constructed with extreme climates in mind, such as those experienced in Russian, Nordic, and Arctic environments.

- Tuned full band 440 to 475 MHz
- Ideal for 4G LTE B31
- Bidirectional radiation pattern (broadside)
- IP67 ingress protection rating
- Durable design for Nordic, Russian, and Arctic climates

▼ Antenna Technical Data

Physical Characteristics

Construction Material	ABS Plastic Aluminium	RF Connections	1
Radome Colour	RAL 7012 Basalt Grey	Environmental Rating	IP67
Dimensions	390 mm (L)	Operating Temperature	-40 °C to 80 °C
Weight	1.5900 kg	Mounting	Pole, Ø 35 to 60 mm

▼ Stacked Dipole Array Element

Electrical Specifications

Mechanical Specifications

Input Impedance	50 Ω	Input Connector	N
Polarisation	Vertical (V)	Input Connector Gender	Female
Max. Input Power		Cable Series	-
PIM, 3rd Order	-	Cable Length	-

▼ Range: 440 to 475 MHz

Peak Gain	6.00 dBi	Azimuth Beamwidth	71°
VSWR	1.5:1	Elevation Beamwidth	69°
Radiation Efficiency	No Data	Electrical Tilt	0°
Front-to-Back Ratio	-	Inter-Port Isolation	-
Cross-Polar Discrimination	-	Cross-Polar Isolation	-

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