



# ANTENNA EXPERTS

E-mail: [info@antennaexperts.in](mailto:info@antennaexperts.in) Website: [www.antennaexperts.in](http://www.antennaexperts.in)

Model # SAT-225-400CL      225 – 400 MHz.      6dBic & 3dBil. Gain

## SATCOM ON-THE-MOVE X WINGS ANTENNA

**DESIGN FEATURES:** The SAT-225-400CL is a dual mode UHF line-of-sight (LOS) and UHF SATCOM antenna which is ideal for SATCOM On-The-Move (SOTM) operation. The line of sight antenna is used for communicating with satellites low on the horizon. SAT-225-400CL can be used with most tactical Multi-Band, Multi-Mode Receivers (MBMMR), as well as all airborne and ground transceivers that accept a 50 ohm antenna impedance.



The Antenna can be connected to two radios to provide two simultaneous SATCOM – Satellite high angle coverage and standard LOS - Line-Of-Sight low angle air-to-air or air-to-ground communications.

SAT-225-400CL antenna combines the features of a two-port dual function high angle (RHCP) and low angle (Linear - Vertical) antenna system that is suitable for installation on vehicular, shipboard and ground shelter applications. No duplexer or switching is required.

### ELECTRICAL SPECIFICATIONS:

Frequency Range - High Angle	225 - 400 MHz.
Frequency Range - Low Angle	225 - 400 MHz.
Gain - High Angle	6 dBic.
Gain - Low Angle	3 dBil
Bandwidth	Entire 225-400 MHz.
Polarization - High Angle	Right Hand Circular (RHCP)
Polarization - Low Angle	Linear - Vertical
Input Impedance	50 Ohms.
Axial Ratio –Half Power Points	3 dB.
Isolation – Better Than	22 dB.
VSWR – Better Than - High Angle	1:1.5
VSWR – Better Than - Low Angle	1:3.0
RF Power Handling Capacity - High Angle	200 Watts.
RF Power Handling Capacity - Low Angle	100 Watts.
Input Termination - High Angle	N-Female
Input Termination - Low Angle	TNC-Female

### MECHANICAL SPECIFICATIONS:

Connector Materials	Silver Plated Brass
Gross Weight	3.5 Kgs.
Wind Rating	180 Km/Hr.
Overall Length	300 mm
Overall Width	600 mm
Radiating Materials	Aluminum
Finish	Military Color

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Note: All information contained in the datasheet is subject to change without any prior notice.