

# SAO 1 rev2

1710 -2180 MHz CP Omni antenna

## Features

- ❑ Transmit Diversity Gain
- ❑ Can be configured to combine space & polarization diversity
- ❑ Outstanding performance over the entire band (1710 - 2180 MHz)
- ❑ Ideal for in & outdoor applications
- ❑ Low intermodulation
- ❑ “Full size” Din connector
- ❑ Fading reduction
- ❑ Modular (2x 3x 4x nx ..)



## Electrical specifications

Frequency range:	<b>1710-2180 MHz</b>
Impedance:	<b>50 ohm</b>
Connector type:	<b>7/16 Din</b>
Return loss:	<b>20 dB</b>
Polarization:	<b>Circular</b>
Gain ea. port [Circular]:	<b>1 dBdC</b>
Intermodulation (2x20W):	<b>IM3 153 dB</b> <b>IM5 160 dB</b> <b>IM7/9 170 dB</b>
Power rating:	<b>125 W</b>
H-plane:	<b>360°</b>
V-plane (-3 dB point):	<b>30°</b>
Lightning protection:	<b>DC grounded</b>

## Mechanical specifications

Overall height:	<b>12 in</b>	<b>[305 mm]</b>
Diameter:	<b>2.5 in</b>	<b>[63.5 mm]</b>
Weight (excluding brackets):	<b>1 lbs</b>	<b>[0.45 Kg]</b>
Wind load measured up to:	<b>150 mph</b>	<b>[240 Km/h]</b>
Wind area (front of antenna):	<b>0.21 sq. ft.</b>	<b>[0.02 sq.m]</b>
Lateral thrust at 113 mph/ 180 Km/h (worst case):	<b>10.6 lbs</b>	<b>[47.5 N]</b>

## Materials

Radiating Elements:	<b>PCB / brass</b>
Transformer (Power distribution)	<b>Ceramic PCB</b>
Chassis:	<b>Aluminum</b>
Radome:	<b>PVC/TPO</b>
Mounting bolts:	<b>Stainless steel</b>

*The SAO 1 rev2 is made in the U.S.A.*