

# SCP 9012 / 8515 rev2

Dual band log-periodic antenna

## Features

- ❑ Small size
- ❑ Improved Side-to-side rejection
- ❑ Suitable for TDMA/CDMA/GSM/3G
- ❑ High return loss
- ❑ Low intermodulation
- ❑ High front-to-back ratio
- ❑ Dramatically improved signal to interference performance
- ❑ Upper side-lobe suppression
- ❑ Rugged design
- ❑ Outstanding performance over both bands (800 - 960 & 1850 - 1990 MHz)



## Electrical specifications

Frequency range:	<b>800 - 960 / 1850 - 1990 MHz</b>	
Impedance:	<b>50 ohm</b>	
Connector type:	<b>7/16 Din</b>	
Return loss:	<b>20 dB</b>	
Polarization:	<b>2x Vertical</b>	
Isolation between antennas:	<b>30 dB</b>	
	<u>800 - 960 MHz</u>	<u>1850 - 1990 MHz</u>
Gain:	<b>12 dBd</b>	<b>15 dBd</b>
Front-to-back ratio:	<b>&gt; 30 dB</b>	<b>&gt; 30 dB</b>
Power rating:	<b>500 W</b>	<b>300 W</b>
H-plane (-3 dB point):	<b>85 - 90°</b>	<b>82 - 86°</b>
V-plane (-3 dB point):	<b>17 - 19°</b>	<b>8 - 9°</b>
Upper side-lobe suppression:	<b>18 dB</b>	<b>18 dB</b>
Intermodulation (2x20W):	<b>IM5 160 dB</b>	<b>IM7/9 170 dB</b>

Lightning protection: **DC grounded**

## Mechanical specifications

Overall height:	<b>43 in</b>	<b>[1092 mm]</b>
Width:	<b>8.5 in</b>	<b>[216 mm]</b>
Depth:	<b>8 in</b>	<b>[203 mm]</b>
Weight (excluding brackets):	<b>15 lbs</b>	<b>[6.8 Kg]</b>
Wind load measured up to:	<b>150 mph</b>	<b>[240 Km/h]</b>
Wind area (side of antenna):	<b>2.54 sq. ft.</b>	<b>[0.24 sq.m]</b>
Lateral thrust At 113 mph/ 180Km/h (worst case):	<b>130 lbs</b>	<b>[577 N]</b>

## Materials

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

*The SCP 9012 / 8515 rev2 is made in the U.S.A.*