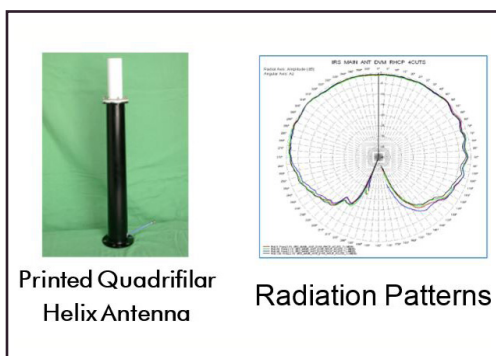


## Omni-Directional Antenna

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed an Omni-directional Printed Quadrifilar Helix Antenna operating at S-band providing 0 dBi gain in hemispherical coverage in circular polarization.



### Salient Features

Quadrifilar Helix Antenna consists of radiating filers and feed network printed on the same substrate used to provide high reliability by avoiding many solder joints.

### Major Specifications

Frequency Band	2.15 GHz
Bandwidth	15 % max.
Geometry	Printed QFH
0 dBi coverage	$\pm 90^\circ$ for 5 % bandwidth
-4 dBi coverage	$\pm 90^\circ$ for 15 % bandwidth
-10 dBi Coverage	$\pm 110^\circ$
Polarization	RHCP or LHCP
Axial Ratio	6 dB max.
Power Handling	20 W CW
RF interface	SMA
Mass	160 grams
Radome	Teflon

## Technology Transfer

URSC/ISRO offers to transfer this technology of Omni-Directional Antenna to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),  
Programme Planning and Evaluation Group (PPEG),

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,  
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🌐 <https://www.ursc.gov.in/industry/index.jsp>