



3.7 MT ANTENNA EARTH STATION

Model Type: **ANP0069B**

The RX/TX antenna provides high gain and exceptional pattern characteristics. **High electrical performance and exceptional versatility** constitute the ability to configure the antenna with your choice of linearly or circularly polarised 2-port or 4-port combining network.

The 3.7m antenna is a rugged, reliable antenna system that **operates at: C, X, Ku, K or Ka band frequencies** with high efficiency and at the same time successfully withstands environmental effects.

The antenna consists of main reflector, sub reflector, mount assembly, back struts and feed assembly. The aluminium alloy reflector is precision formed for accuracy and strength, which requires minimal maintenance.

The reflector assembly is 3.7m in diameter and segmented into a 12 (twelve) piece configuration to reduce shipping volume and to facilitate transport to remote sites.

The reflector panels are conversion coated and painted with a highly reflective white paint. **Hot-dipped galvanized steel mount maintains pointing accuracy and ensures durability and reliability.** The mount can be purchased with either manual or motorizable capabilities.

The surface of the sub reflector and feed system is hot-dipped galvanized. **The feed is made up of a conic corrugated horn and a circular transition** with flange to connect the feed system (supplied with 2 or 4 ports on request).



ISO 9001:2015



ANTENNA SPECIFICATION

Type	Ext. CBand Antenna	
	Rx	Tx
Antenna Diameter	3.7 mt	
Antenna Type	Ring focus	
Surface Accuracy (RMS)	≤ 0.5 mm	
Frequency (GHz)	4.5 – 4.8	6.725 – 7.025
Gain, Mid-band (dBi)	43.9	46.2
Feed	2-ports (4-ports optional)	
VSWR	≤ 1.25:1	
Feed Interface	WR-229	WR-137
Feed Insertion Loss	≤ 0.2 dB	≤ 0.2 dB
Power Handling		5 KW
Tx - Rx Isolation	90 dB	
Noise Temperature	10° Elev.	35K
	30° Elev.	29K
	50° Elev.	25K
Cross Pol Isolation @ 1 dB contour	33 dB	33 dB
Side lobes	ITU 580-5, FCC 25.209	

MECHANICAL SPECIFICATION

Antenna Pointing Range (Continous)	Azimuth	Elevation	Polarization
	360°	5° to 90°	± 90°
Drive Mode (3 axis)	Motorized		
Azimuth Travel Rate	0.03°/sec - 0.11°/sec		
Elevation Travel Rate	0.04°/sec – 0.17°/sec		
Polarization Travel Rate	0.5°/sec		
Mount Type	Elevation over Azimuth		

ENVIRONMENTAL SPECIFICATION

Operational Wind	72 km/h, gusts up to 97 km/h
Survival Wind	200 km/h (in stow position)
Ambient Temperature	-40° to 60°
Relative Humidity	100%
Solar Radiation	1135 Kcal/h/mq
Seismic (Survival)	0.3 G's Horizontal, 0.15 G's Vertical
Atmopheric Condition	Salt, Pollutants and Contaminants as Encoutered in Costal and Industrial Areas

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