



1.5 MT MOBILE ANTENNA

Model Type: ANP0065D

The antenna is a Gregorian type reflector of 1,5mt dimension (double reflector system) with a sub-reflector that enables uniform feed illumination, maximal efficiency and low secondary lobes. The principal reflector is constituted by a support structure with one dish in reinforced aluminium.

The dish is manufactured with the best shape for the highest electromagnetic performance. The sub-reflector is fixed directly at the feed arms without any regulation: the auto-alignment system allows to fix the sub-reflector in the correct position (the same for the feed). The feed has a corrugated horn for better symmetric patterns and low secondary lobes.

The OMT (Ortho Mode Transducer) facilitates the two ports to allow both transmission and reception in linear polarization.

The antenna features also a motorized handling in three axes (azimuth, elevation and polarization). The command to move and check the antenna handling is supervised by the Antenna Control Unit "ASC0012" (Antenna Satellite Controller).

The antenna is provided with a 13-bit Optical Encoder (for azimuth and elevation axes) and with a potentiometer for the polarization axis. All cables between the Antenna and the ACU are provided. Azimuth, elevation and polarization switches limit is installed and connects directly to the ACU for the safety control of the antenna handling.



ISO 9001:2015



ANTENNA SPECIFICATION

Type	1.5 mt Ku-Band SNG Antenna	
	Rx	Tx
Antenna Diameter	1.5 mt	
Antenna Optic	Offset Gregoriana	
Frequency (GHz)	10.70 - 12.75	13.75 - 14.50
Gain, Mid-band (dBi)	43.5	45.1
Feed	2 Port Linear Ortogonal	
VSWR	1.20:1	
Cross Pol. Isolation, 1dB contour	> 35 dB	> 35 dB
Feed Interface	WR - 75	WR - 75
Feed Insertion Loss	0.20 dB	0.20 dB
Power Handing		500W CW
Tx - Rx Isolation	≥85dB	
Side lobes	ITU - RS.580-5	

MECHANICAL SPECIFICATION

Antenna Pointing Range (Continous)	Azimuth	Elevation	Polarization
		± 175°	0° to 85°
Drive Mode (3 axis)	Motorized		
Azimuth Travel Speed	0.20° / sec		
Elevation Travel Speed	0.20° / sec		
Polarization Travel Speed	0.1° / sec		
Total Structure Dimension	2420 x 1600 x 650 mm		

ENVIRONMENTAL SPECIFICATION

Operation Wind	72km/h, gusts to 97 km/h
Survival Wind	120 Km/h
Ambient Temperature	-40° up to +60°
Relative Humidity	100%
Solar Radiation, Survival	1135 Kcal/h/mq
Ice Load, Survival	25 mm
Total Structure Weight	180 kg

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