

COMSAT SYSTEMS PVT LTD

1.2 Mtr Ku Band GFRP / Carbon Fibre Reflector

Mobile VSAT



The Mobile VSAT Antenna comprises, GFRP / Carbon Fibre reflector of 1.2 Mtr & 2 axis mount, an Elevation over Azimuth positioner which uses high strength steel wire rope cables in its drive system.

The drive system is characterized by light weight, high stiffness and zero backlash. It has a motorized drive for the feed polarization rotation.

This Auto systems includes all features along with the advantages like:

- Initially positioning of the Vehicle / Antenna to true North is eliminated by using GPS & Electronic Compass.
- Based on the selection of Tracking Time Interval in Antenna Control Unit (ACU), the ACU with the help of Beacon Tracking Receiver always points the Antenna to reception of maximum signal strength

Website: www.comsatsystems.co.in, Email: marketing@comsatsystems.co.in

SPECIFICATIONS

MECHANICAL

Antenna Size : 1.2 Mtr Prime Focus Offset
Antenna Type : GFRP / Carbon Fibre
Mount Geometry : Elevation Over Azimuth
Azimuth Travel : 270° Continuous
Elevation Travel : 0° - 160° from Sleep mode
Polarization Travel : ± 95° for 2 Port
Polarization Travel Rate : 1.5° / Sec

Motors

Elevation : PMDC120 W, Constant Torque
Azimuth : PMDC 75 W, Constant Torque
Speed
Slewing / Deploying : 2° / Second
Peaking : 0.2° / Second
Pedestal : Hot dip Galvanized Plate
Weight of System : 75 Kgs

ELECTRICAL

Feed Type : Offset
Frequency of Operation : Ku Band

	Rx	Tx
10.95 – 12.75		14.00 - 14.50
Antenna Gain (Mid band) ±0.5 dBi :	Rx	Tx
	42.0	43.5
Beamwidth (degrees)		
-3dB :	1.5	1.2
-10 dB :	2.6	2.1
First Sidelobe Level (± 2 dB) :	-20 dB	-20 dB
CPD :	> 30 dB (On Axis)	
VSWR :	1.3:1	
Radiation Patterns :	Meets Current FCC requirements for 2° spacing	
Power Handling Capacity :	0.5 KW	
Polarization :	Linear	

ENVIRONMENTAL

Operation Wind : 80 Kmph
Survival Wind : 150 Kmph (In Sleep Mode)
Ambient Temperature : - 40° C to + 60° C
Rain : Upto 100 mm / hr
Humidity : 100%
Shock & Vibration : As encountered during road conditions.
Corrosive Atmosphere : As encountered in marine atmosphere.