

1.8 M Mobile Antenna SPECIFICATIONS

ELECTRICAL		
Antenna size	1.8 Mtr Prime Focus Offset	
Feed Type	Offset	
Frequency of operation	Rx (Ghz)	Tx (Ghz)
C – Band	3.625 – 4.2	5.85 – 6.425
Ext – C Band	4.5 – 4.8	6.725 – 7.025
Ku - Band	10.700 – 12.750	13.75 – 14.50
Antenna Gain dBi (Mid Band)	Rx (dBi)	Tx (dBi)
C – Band	35.5	39.5
Ext – C Band	37.0	40.0
Ku - Band	45.0	46.5
Cross pol Discrimination (CPD)	>30dB (on axis)	
Polarisation	Linear / Circular	
VSWR	1.30 : 1	
Power Handling Capacity	Tx	
C – Band	1KW	
Ext – C Band	1KW	
Ku - Band	1KW	
Feed Interface	Rx	Tx
C – Band	CPR 229G	CPR 137G or N Connector
Ext – C Band	CPR 229G	CPR 137G
Ku – Band	WR 75 flat	WR 75 flat
Radiation Pattern	As per ITU – R.S.580 – 6 , Meets Current FCC requirement for 2 ° spacing	
MECHANICAL		
Reflector Type	GFRP / CFRP	
Mount Geometry	Elevation over Azimuth	
Azimuth Travel	± 200° Continuous	
Elevation Travel	0° - 160° from sleep Mode	
Polarization Travel	± 95° for 2 Port	
Polarization Travel Rate	1.5 ° / Sec	
Motors	Elevation	Azimuth
	24 V, DC variable speed, constant torque	24 V, DC variable speed, constant torque
Speed	Slewing / Deploying	2° / Second
	Peaking	0.1° / Second
	Pedestal	Hot Dip Galvanized Plate & Aluminium alloy construction.
	Weight of System	160Kgs
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.	