

## 3.7M Vsat Antenna

Both C-band, ku-band ,ka-band, S band and X band frequency are available

Both available are Generalwind, Highwind and Superwind.

Both Linear or Circular Polarized feed system are available

Self-aligning, stretch forming of aluminum reflector;

Reliable structure and a good anti-rust

Hot-dip galvanized structural steel

Vsat Antenna	3.7M Vsat Antenna			
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.625 to 4.2	5.85 to 6.425	10.95 to 12.75	14.0 to 14.5
Gain, Mid-band, dBi	42.1	45.3	51.4	52.6
Polarization	Linear/ Circular		Linear	
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss, dB	0.15	0.25	0.25	0.25
-3dB Beam Width(deg)	1.32	0.86	0.47	0.38
Tx. Power Capability, KW		5		2
Antenna Noise Temperature, 2-port feed				
10 deg Elevation	36 K		50 K	
30 deg Elevation	30 K		44 K	
50 deg Elevation	25 K		38 K	
Axial Ratio (dB)	1.30	1.06		
VSWR	1.25	1.25	1.25	1.25
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, dB	33	33	33	33
Isolation, Tx to Rx, dB	85			
Radiation Pattern:First Sidelobe	CCIR.580			
<b>Environmental Specification</b>				
Relative Humidity	100%			
Solar Radiation	1135Kcal/ h/ m <sup>2</sup>			
Seismic (Survival)	0.3g (H), 0.15g (V)			
Operational Wind	72km/h Gusting to 97km/h			
Survival Wind	216km/h			
Temperature	- 40Deg.c + 60Deg.c			
<b>Mechanical Specification</b>				
Finishes				
Reflector Surface	Aluminum panels with high-diffusing white paint			
Pedestal & Back Structure	Hot dipped Galvanized			
Surface Accuracy (RMS)	Less than 0.5mm			
Azimuth	0 to 170 deg			
Elevation	0 to 90 deg			
Polarization	180 deg			