

4.5M VSAT Antenna

C-band , KU-band and Ka-band frequencies;

You can choose Linear or circular polarization feed system;

Both 2-port and 4 port is available;

Fixed or motorizable base;

Self-aligning, the formation of tensile aluminum reflector;

Ensure high-quality antenna structure

Superior electrical performance;

Antenna	4.5M 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	43.8	47.2	53	54.5
Polarization	Linear/ Circular		Linear	
Axial Ratio (dB)	1.5	1.0		
Antenna Noise Temperature, 2-port feed				
10 deg Elevation	36 K		60 K	
20 deg Elevation	27 K		50 K	
40 deg Elevation	24 K		44 K	
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss, dB	0.25	0.2	0.25	0.25
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
-3dB Beam Width(deg)	1.14	0.72	0.37	0.31
Radiation Pattern:First Sidelobe	CCIR.580			
Isolation, Tx to Rx, dB	85			
Mechanical				
Finishes				
Reflector Surface	Aluminum panels with high-diffusing white paint			
Pedestal & Back Structure	Hot dipped Galvanized			
Azimuth	0 to 170deg			
Surface Accuracy (RMS)	0.5mm			
Elevation	0 to 90deg			
Polarization	180deg			
Environmental				
Relative Humidity	100%			
Survival Wind	216km/h			
Solar Radiation	1135Kcal/ h/ m ²			
Temperature	- 40Deg.c + 60Deg.c			
Seismic (Survival)	0.3g (H), 0.15g (V)			
Operational Wind	72km/h Gusting to 97km/h			