

GS1.8M VSAT ANTENNA

Key Features

- * Meets or Exceeds CCIR 580 and INTELSAT Requirements
- * High G/T, Excellent Pattern Characteristics
- * Hot-dipped Galvanized Steel Ground Mount Assembly
- * C-band Antenna Operating in 800MHz Bandwidth
- * 2-port, 3-port or 4-port Linear/Circular Feed
- * Field Changeable Feed System, Switchable Circular to Linear C-band

Antenna Accessories

- * Motorization Kits
- * 50 Satellite Positions Preset
- * Limit Switches
- * Steptrack
- * ODU Support Kits
- * Factory Feed System Testing and Documentation
- * Ocean Transport Packing
- * Foundation Kit
- * Lightning Rod Kit
- * Grounding Kit
- * Cable-Mounting Kit
- * Major Subsystem Spare Part Kits
- * Anti-icing and Deicing

ELECTRICAL SPECIFICATION

	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operating Frequency, GHz	3.4~4.2	5.85~6.425	10.95~12.75	13.75~14.5
Gain, Mid-band, dBi	35.5	39.5	45.3	46.5
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
Axial Ratio (Circular-Polarized)	1.30	1.09		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature	2 port feed		2 port feed	
10° Elevation	39°K		43°K	
30° Elevation	29°K		36°K	
50° Elevation	26°K		32°K	
-3dB Beam Width, Mid-band	2.88°	1.9°	0.87°	0.74°
Tx. Power Capability, KW		5		2



Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2	0.2	0.25	0.2
Isolation, Tx to Rx, dB	90		85	
First Sidelobe	-14		-14	
90% Peaks under Following Envelop	29-25log θ (1° $\leq\theta$ <20°)		29-25log θ (1° $\leq\theta$ <20°)	

MECHANICAL SPECIFICATION

Antenna Diameter	1.8 m
Antenna Type	Offset/Prime Focus
Mount Type	El. over Az.
Surface Accuracy (RMS)	$\leq 0.35\text{mm}$
Antenna Pointing Range	
Azimuth	0°~360°, $\pm 10^\circ$ (Continuous)
Elevation	0°~90° (Continuous)
Polarization	360° (Continuous)
Drive Mode	Manual or Motorized

ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	216km/h
Temperature	-40°C ~ +60°C
Relative Humidity	100%
Solar Radiation	1135Kcal/ h/ m ²
Seismic (Survival)	0.3g (H), 0.15g (V)
Ice Loading	13mm Operational; 25mm Survival

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