

GS3.7M VSAT ANTENNA

Key Features

- * Meets or Exceeds CCIR 580 and INTELSAT Requirements
- * Ring Focus
- * High G/T, Excellent Pattern Characteristics
- * Hot-dipped Galvanized Steel Ground Mount Assembly
- * C-band Antenna Operating in 800MHz Bandwidth Option
- * 2-port, 3-port or 4-port Linear/Circular Feed
- * Field Changeable Feed System, Switchable Circular to Linear C-band
- * High Wind(290km/h)
- * Antenna Az 0°-360° degree continuous Pointing Range

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
- * Lightening 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	5.85~6.725	10.95~12.75	13.75~14.5
Gain, Mid-band, dBi	42.2	45.4	51.4	52.7
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD (across 1dB Beam Width), dB	33	33	33	33
Axial Ratio (Circular-Polarized)				
2-Port Feed	1.30	1.09		
4-Port Feed	1.06	1.06		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature	2 port feed		2 port feed	
10° Elevation	35°K		49°K	



30° Elevation	29°K		39°K	
50° Elevation	25°K		35°K	
-3dB Beam Width, Mid-band	1.25°	0.82°	0.44°	0.38°
Typical G/T (EI > 10°)	24dB/°K (30° LNA)		30.6dB/°K (70° LNA)	
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
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	3.7 m
Antenna Type	Ring Focus
Mount Type	EI. over Az.
Surface Accuracy (RMS)	$\leq 0.5\text{mm}$
Antenna Pointing Range	
Azimuth	$\pm 90^\circ, \pm 60^\circ$ (Continuous)
Elevation	0°~90°(Continuous)
Polarization	180°(Continuous)
Drive Mode	Manual or Motorized
Motor Drive System	
Azimuth Travel Rate	0.30 °/S (0.06 °/S)
Elevation Travel Rate	0.20 °/S (0.04 °/S)
Polarization	1°/S

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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