



3.7m KA Band Antenna

## Feature

- \* Meets or exceeds ITU-RS 580-5 and INTELSAT requirements
- \* High G/T, excellent pattern characteristics
- \* Self-aligning aluminum reflector, no field alignment
- \* Factory feed system testing
- \* All of steel parts to be processed by hot dipped zinc
- \* 2-port or 4-port Linear/Circular Feed Field changeable feed system, switchable circular to linear C-band
- \* Foundation hardware kit included
- \* Air or ocean transport packing

## Options

- \* Specialized feed systems (e.g extended ,multi-band, Ka Band,DBS band )
- \* Antenna control system with tracking (Steptrack, Program Tracking and Inclined Orbit Tracking)
- \* Reflector and feed deicing systems
- \* ODU Support Kits, Lightning Rod Kit, Grounding Kit and Cable-Mounting Kit
- \* Turnkey installation and testing
- \* Non-penetrating mount
- \* High wind configuration



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Electrical Specification			
Type	FS370-KA		
Electrical Operating Frequency	Ka-Band Circular	Ka-Band Circular	Ka-Band Linear
	Receive 20.20 - 21.20 GHz	19.40 - 21.20 GHz	18.70 - 21.20 GHz
Transmit	30.00 - 31.00 GHz	29.20 - 31.00 GHz	27.00 - 31.00 GHz
Midband Gain ( +/- .5 dB)	Receive	55.4 dBi	55.3 dBi
	Transmit	58.8 dBi	58.7 dBi
			55.1 dBi
			58.4 dBi
VSWR	1.3:1 max	1.3:1 max	1.5:1 max
Beam width(-3 dB)	Rx: 0.27° Tx: 0.18°	Rx: 0.28° Tx: 0.18°	Rx: 0.28° Tx: 0.19°
Power Handling	100 W		
Antenna Noise Temperature			
10° Elevation	139 K	139 K	140 K
20° Elevation	118 K	118 K	121 K
40° Elevation	107 K	107 K	106 K
Cross Polarization Isolation	On Axis	26dB	35 dB
	Within 1.0 dB Beamwidth	25dB	33 dB
Output Waveguide Interface Flange	Rx: WR42 Tx:WR28		
First Side lobe90%	-14		
Peaks under Following Envelop	29-25log $\theta(1^\circ \leq \theta < 20^\circ)$		
Mechanical Specification			
Antenna Diameter	3.7m		
Antenna Type	Cassegrain		
Surface Accuracy (RMS)	≤0.3mm		
Antenna Pointing Range			
Azimuth	0°~360°, ±10°(Continuous)		
Elevation	0°~90°(Continuous)		
Polarization	±360°(Continuous)		
Drive Mode	Manual or Motorized		
Antenna reflector Material	Aluminum Alloy		
Finish of steel parts	Hot dipped Zinc		
Environmental Specification			
Operational Wind	72km/h gusting to 97km/h		
Survival Wind	216km/h		
Temperature	-40°~+60°		
Relative Humidity	100%		
Solar Radiation	1135Kcal/h/m <sup>2</sup>		
Seismic(Survival)	0.3g(H), 0.15g(V)		
Ice Loading	13mm Operational; 25mm Survival		