



9.0m C/KU 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	FS900-EC		FS900-KU	
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.4 ~ 4.2	5.85 ~ 6.725	10.95 ~ 12.75	13.75 ~ 14.5
Gain, Mid-band, dBi	49.9	53.5	59.4	60.8
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/4 port	1.30/1.06	1.09/1.06		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature				
10° Elevation	35°K		60°K	
30° Elevation	26°K		50°K	
50° Elevation	24°K		49°K	
-3dB Beam Width, Mid-band	0.55°	0.4°	0.19°	0.16°
Rx Typical G/T (El > 10°)	30.5dB/K (30° LNA)		37.3dB/K(70° LNA)	
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2/0.3	0.2	0.25	0.2
Isolation, Tx to Rx, dB	85			
Side lobe	CCIR 580-4			
MECHANICAL SPECIFICATION				
Antenna Diameter	9.0 m			
Antenna Type	Cassegrain			
Mount Type	El. over Az.			
Surface Accuracy (RMS)	≤ 0.5mm			
Antenna Pointing Range				
Azimuth	±85°, ±60 °(Continuous)			
Elevation	5° ~ 90°(Continuous)			
Polarization	180°(Continuous)			
Drive Mode	Manual or Motorized			
Motor Drive System				
Azimuth Travel Rate	0.11°/S (0.02°/S)			
Elevation Travel Rate	0.17°/S (0.02°/S)			
Polarization	1°/S			
ENVIRONMENTAL SPECIFICATION				
Operational Wind	72km/h Gusting to 97km/h			
Survival Wind	220km/h			
Temperature	-40°C ~ + 60°C			
Relative Humidity	100%			
Solar Radiation	1135Kcal/ h/ m2			
Seismic (Survival)	0.3g (H), 0.15g (V)			
Ice Loading	13mm Operational; 25mm Survival			