



7.3m C/KU Band Rx Only 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	FS730-ECR	FS730-KUR
Operating Frequency, GHz	C-Band	Ku-Band
	Receive	Receive
	3.4 ~ 4.2	10.70 ~ 12.75
Gain, Mid-band, dBi	48	57.5
Polarization	Linear/ Circular	Linear
XPD (on Axis), dB	35	35
XPD across 1dB Beam Width, Db	33	33
Axial Ratio (Circular-Polarized) 2 port/4 port	1.30/1.06	
VSWR	1.25	1.25
Antenna Noise Temperature		
10° Elevation	43°K	66°K
30° Elevation	32°K	52°K
50° Elevation	29°K	47°K
-3dB Beam Width, Mid-band	0.72°	0.23°
Rx. Typical G/T (El > 10°)	29.3dB/K (30° LNA)	36.1dB/K(70° LNA)
Feed Interface	CPR-229G	WR-75
Feed Insertion Loss	0.2	0.25
Isolation, Tx to Rx, dB	90	85
First Sidelobe	-14	-14
90% Peaks under Following Envelop	29-25logθ(1°≤θ < 20°)	29-25logθ (1°≤θ < 20°)
MECHANICAL SPECIFICATION		
Antenna Diameter	7.3 m	
Antenna Type	Ring Focus/Cassegrain	
Mount Type	El. over Az.	
Surface Accuracy (RMS)	≤ 0.5mm	
Antenna Pointing Range		
Azimuth	± 90°, ± 60 °(Continuous)	
Elevation	5° ~ 90°(Continuous)	
Polarization	180°(Continuous)	
Drive Mode	Manual or Motorized	
Motor Drive System		
Azimuth Travel Rate	0.1°/S (0.02°/S)	
Elevation Travel Rate	0.1°/S (0.02°/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/ m2	
Seismic (Survival)	0.3g (H), 0.15g (V)	
Ice Loading	13mm Operational; 25mm Survival	