



## 3.7m 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	FS370-ECR	FS370-EKR
Operating Frequency, GHz	C-Band Receive 3.4 ~ 4.2	Ku-Band Receive 10.95 ~ 12.75
Gain, Mid-band,dBi	42.2	51.4
Polarization	Linear/Circular	Linear
XPD (on Axis),dB	35	35
XPD across 1dB Beam Width,dB	27	33
Axial Ratio(Circular-Polarized)	1.3	
VSWR	1.3	1.3
Antenna Noise Temperature		
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°	0.44°
Typical G/T ( EI > 10°)	24dB/K ( 30° LNA)	30.6dB/K ( 70° LNA)
Feed Interface	CPR-229G	WR-75
Feed Insertion Loss	0.2	0.25
First Sidelobe	-14	-14
90% Peaks under Following Envelop	29-25log $\theta$ (1° $\leq\theta$ < 20°)	29-25log $\theta$ (1° $\leq\theta$ < 20°)

## MECHANICAL SPECIFICATION

Antenna Diameter	3.7m
Antenna Type	Prime Focus
Mount Type	El. Over Az.
Surface Accuracy(RMS)	$\leq 0.5$ 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	0.3°/S
Elevation Travel	0.2°/S
Rate 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 <sup>2</sup>
Seismic (Survival)	0.3g (H), 0.15g(V)
Ice Loading	13mm Operational; 25mm Survival



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