



4.5m 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	FS450-ECR	FS450-EKR
Operating Frequency, GHz	C-Band Receive 3.4 ~ 4.2	Ku-Band Receive 10.95 ~ 12.75
Gain, Mid-band, dBi	44	53.7
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	34°K	52°K
30° Elevation	24°K	41°K
50° Elevation	21°K	37°K
-3dB Beam Width, Mid-band	1.12°	0.37°
Typical G/T (El > 10°)	25.9dB/K (30° LNA)	32.3dB/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 θ (1° $\leq\theta$ < 20°)	29-25log θ (1° $\leq\theta$ < 20°)

MECHANICAL SPECIFICATION

Antenna Diameter	4.5 m
Antenna Type	Ring Focus
Mount Type	El. over Az.
Surface Accuracy (RMS)	$\leq 0.5\text{mm}$
Antenna Pointing Range	
Azimuth	$\pm 90^\circ, \pm 65^\circ$ (Continuous)
Elevation	0° ~ 90° (Continuous)
Polarization	180° (Continuous)
Drive Mode	Manual or Motorized
Motor Drive System	
Azimuth Travel Rate	0.11°/S (0.06°/S)
Elevation Travel Rate	0.17°/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/ m2
Seismic (Survival)	0.3g (H), 0.15g (V)
Ice Loading	13mm Operational; 25mm Survival



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