



9.0m 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	FS900-ECR	FS900-KUR
Operating Frequency, GHz	C-Band	Ku-Band
	Receive	Receive
	3.4 ~ 4.2	10.95 ~ 12.75
Gain, Mid-band, dBi	49.9	59.4
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	35°K	60°K
30° Elevation	26°K	50°K
50° Elevation	24°K	49°K
-3dB Beam Width, Mid-band	0.55°	0.19°
Rx Typical G/T ( El > 10° )	30.5dB/K ( 30° LNA )	37.3dB/K( 70° LNA )
Feed Interface	CPR-229G	WR-75
Feed Insertion Loss	0.2/0.3	0.25
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°(3 sections)
Elevation	0° ~ 90°(Continuous)
Polarization	±90°(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/ m <sup>2</sup>
Seismic (Survival)	0.3g (H), 0.15g (V)
Ice Loading	13mm Operational; 25mm Survival



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