



1.8m 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	FS180-EC		FS180-EK	
	C-Band		Ku-Band	
Operating Frequency, GHz	Receive	Transmit	Receive	Transmit
	3.4 ~ 4.2	5.85 ~ 6.725	10.95 ~ 12.75	13.75 ~ 14.5
Gain, Mid-band, dBi	35.5	39.5	45.3	46.5
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
Axial Ratio (Circular-Polarized)	1.3	1.09		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature				
10° Elevation	39°K		43°K	
30° Elevation	29°K		36°K	
50° Elevation	26°K		32°K	
-3dB Beam Width, Mid-band	2.88°	1.9°	0.87°	0.74°
Tx. Power Capability, KW		3		1
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2	0.2	0.25	0.2
Isolation, Tx to Rx, dB	90		85	
First Sidelobe	-14		-14	
90% Peaks under Following Envelop	29-25log θ (1° $\leq\theta < 20^\circ$)		29-25log θ (1° $\leq\theta < 20^\circ$)	

MECHANICAL SPECIFICATION

Antenna Diameter	1.8m
Antenna Type	Offset
Mount Type	El. over Az.
Surface Accuracy (RMS)	$\leq 0.5\text{mm}$
Antenna Pointing Range	
Azimuth	0° ~ 360°, $\pm 10^\circ$ (Continuous)
Elevation	0° ~ 90° (Continuous)
Polarization	360° (Continuous)
Drive Mode	Manual or Motorized
Materials of reflector	Aluminum alloy
Finish of steel parts	Hot dipped zinc

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 ²
Seismic (Survival)	0.3g (H), 0.15g (V)
Ice Loading	13mm Operational; 25mm Survival