



2.4m 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



Email: [sales@allseeingtech.com](mailto:sales@allseeingtech.com)  
WEB: [www.allseeingtech.com](http://www.allseeingtech.com)



Tel: (+86)29-8886-0263  
Cell: (+86)177-2929-5262

## ELECTRICAL SPECIFICATION

Type	FS240-EC		FS240-KU	
	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	38	41.5	47.8	49.1
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35			
XPD across 1dB Beam Width, dB	33			
Axial Ratio (Circular-Polarized)	1.3	1.09		
VSWR	1.25			
Antenna Noise Temperature				
10° Elevation	32°K		48°K	
30° Elevation	24°K		38°K	
50° Elevation	20°K		34°K	
-3dB Beam Width, Mid-band	2°	1.38°	0.67°	0.59°
Typical G/T ( EI > 10° )	20dB/K ( 30° LNA )		27.1dB/K ( 70° LNA )	
Tx. Power Capability, KW		5		2
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	29-25logθ(1°≤θ < 20° )		29-25logθ (1°≤θ < 20° )	

## MECHANICAL SPECIFICATION

Antenna Diameter	2.4 m
Antenna Type	Ring Focus
Mount Type	El. over Az.
Surface Accuracy (RMS)	≤ 0.4mm
Antenna Pointing Range	
Azimuth	0° ~ 360°, ±10° (Continuous)
Elevation	0° ~ 90° (Continuous)
Polarization	360° (Continuous)
Drive Mode	Manual or Motorized

## 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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