ALL-SEEING TECHNOLOGY CO., LTD

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	FS730-EC		FS730-KU	
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.4 ~ 4.2	5.85 ~ 6.725	10.70 ~ 12.75	13.75 ~ 14.5
Gain, Mid-band, dBi	48	51.6	57.5	58.9
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, Db	33	33	33	33
Axial Ratio (Circular-Polarized) 2 port/4 port	1.30/1.06	1.09/1.06		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature 10° Elevation 30° Elevation 50° Elevation	 43°K 32°K 29°K		 66°K 52°K 47°K	
-3dB Beam Width, Mid-band	0.72°	0.47°	0.23°	0.2°
Rx. Typical G/T (El > 10°)	29.3dB/K (30° LNA)		36.1dB/K(70° LNA)	
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 90% Peaks under Following Envelop	-14 29-25logθ(1°≤θ < 20°)		-14 29-25logθ (1°≤θ < 20°)	
MECHANICAL SPECIFICATION				
Antenna Diameter	7.3 m			
Antenna Type	Ring Focus/Cassegrain			
Mount Type	El. over Az.			
Surface Accuracy (RMS)	≤ 0.5mm			
Antenna Pointing Range Azimuth Elevation Polarization	 ±90°, ±60 °(Continuous) 5° ~ 90°(Continuous) 180°(Continuous)			
Drive Mode	Manual or Motorized			
Motor Drive System Azimuth Travel Rate Elevation Travel Rate Polarization	 0.1°/S (0.02°/S) 0.1°/S (0.02°/S) 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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