

China Starwin 3.7m Earth Station Ring Focus Antenna Datasheet



3.7m earth station manual antenna photo for reference

General Description

Starwin earth station antenna is made of high accuracy stretch-formed aluminum panel with stable structure. earth station antenna systems with satisfactory performance of high gain, low side lobe and reliable operation, easy to operate and maintenance.

Options

- High Accuracy Stretch-formed Aluminum Panel
- Meet data receive and TV receive requirement
- C-band, Ku-band, ka-band, S-band, L-band frequency as option
- Linear or Circular Polarized feed system as option
- Single/Dual Polarization as option
- Manual/Motorized as option
- High Erosion Resistance
- Assembled and tested feed system before leaving factory

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Technical Specifications

3.7meter C, Ku-band Earth Station Technical Specifications				
Electrical Specification	C band Rx	C band Tx	Ku band Rx	Ku band Tx
Operating Frequency, GHz	3.4- 4.2 GHz	5.85-6.65 GHz	10.95-12.75 GHz	13.75-14.5 GHz
Gain, Mid-Band, dBi	$\geq 41.9+20\lg(f/4)$	$\geq 45.4+20\lg(f/6)$	$\geq 51.1+20\lg(f/12)$	$\geq 52.4+20\lg(f/14)$
VSWR	$\leq 1.25:1$	$\leq 1.25:1$	$\leq 1.25:1$	$\leq 1.25:1$
Beam Width, -3dB	$\leq 1.32^\circ$	$\leq 0.88^\circ$	$\leq 0.47^\circ$	$\leq 0.41^\circ$
Noise Temperature, K	2 Ports		2/4 Ports	
10° EI	≤ 48		$\leq 58/69$	
20° EI	≤ 40		$\leq 51/60$	
30° EI	≤ 38		$\leq 49/58$	
Maximum Power Capacity, Kw		3		1
Feed Interface	CPR-229G	CPR-159G/137G	WR-75	WR-75
Polarization	Linear/Circular		Linear	
Feed Insertion Loss, dB, Including TRF	0.3	0.3	0.35/0.5	0.35/0.5
Tx to Rx Isolation, dB	≥ 85		≥ 85	
Cross Polarization Isolation, Axial	≥ 35		≥ 35	
First Side lobe	$\leq -14\text{dB}$			
Side lobe Envelop	$29-25\lg e \quad 1^\circ \leq e \leq 20^\circ$			
Environmental Specification				
Wind Loading Operational	20.8m/s			
Wind Loading	35m/s			
Wind Loading Survival	55m/s			
Temperature Operational	$-20^\circ\text{C} - +55^\circ\text{C}$			
Humidity	5%-95%			
Vibration	0.3G's(H) 0.15G's(V)			
Solar Radiation	360BTU/h/ft ²			
Ice Loading	3 cm			
Mechanical Specification				
Antenna Type	Ring Focus			
King Post Type	Pole			
Drive Mode	Manual			
Azimuth Range	$0^\circ \sim 360^\circ$			
Elevation Range	$5^\circ \sim 90^\circ$			
Polarization Range	$\pm 90^\circ$			
Technology				

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After panel pressing molding, first remove oil, and spraying zinc, Yellow primer, and White coating.
Advanced abrasive blasting and zinc treatment for steel structure, and spraying zinc, Yellow primer, and White coating.