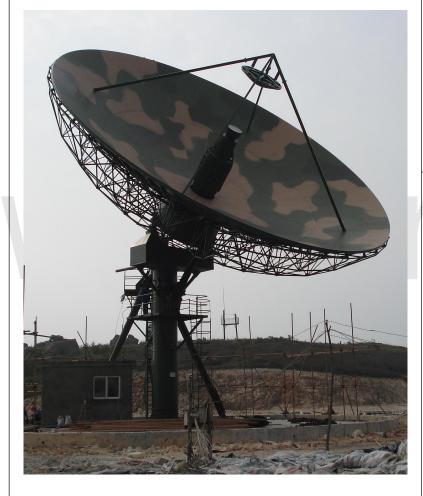
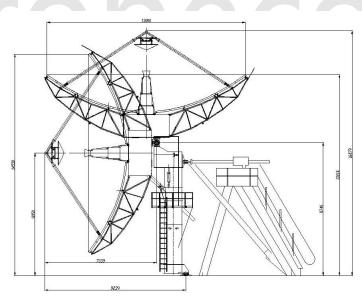
Http://www.probecom.cn

13 Meter Earth Station Antenna



General Description

The probecom 13-meter antenna delivers exceptional performance for transmit/receive and receive only applications for L through Ka-band frequencies. This antenna offers a reflector design that incorporates precision-formed panels, truss radials and hub assembly using matched tooling for interchangeable components. It features an innovative Cassegrain or Ring Focus feed and sub-reflector design which results in high gain, low noise temperature, high antenna efficiency and excellent rejection of noise and microwave interference. A large center hub provides spacious accommodation for equipment mounting. The reflector is supported by a galvanized elevation over azimuth kingpost pedestal that provides the required stiffness for pointing and tracking accuracy. The pedestals are designed for full orbital arc coverage and are readily adaptable to ground or rooftop installations.



Highlighted Features:

- *Meets CCIR 580 and INTELSAT Requirements
- *Precisely adjusted before leaving factory, and no need theodolite to adjust the panel accuracy;
- *High precision alloy aluminum main reflector.

Hot spray galvanized with white paint

- *CP/LP switchable feed
- *High RF performance
- *Galvanized stainless steel hardware
- *Different frequency ranges from many feed configurations
- *Ka band antenna with rotary pedestal is available
- *A large hub for install RF equipments
- *Multi-layer anti-corrosion treatment.

Options

- *L,S, X ,Ka bands and multi-bands
- *Customer feed system design
- *800MHz Extended C band is available
- *Full motion antenna
- *Feed blower or deicing sub-systerm with automatic controls
- *Two or four Tx/Rx port in linear or circular polarized feeds
- *Antenna control system with tracking
- *ODU Support Kits
- *Increase the surface spray zinc thickness along seaside.

Antenna Accessory

- *Motorization Kits
- *Limit Switches
- *Factory Feed System Testing and Documentation
- *Ocean /Air Transport Packing
- *Foundation Kit
- *Grounding Kit Cable-Mounting Kit

Technical Specification

Electrical Specification											
Туре		C130T		EC130T		IC130T		K130T		DBS130T	
Operating Frequency, GHz	Standard C band		Extended C band		Insat C band		Ku Band		DBS Band		
	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit	
	3.625~4.2	5.85~6.425	3.4~4.2	5.85~6.725	4.5~4.8	6.725~7.025	10.70~12.75	13.75~14.5	10.70~12.75	17.3-18.4	
Typical Gain, Mid-band, dBi	52.6	56.5	52.4	56.8	54.1	57.5	61.8	63.4	61.8	65.3	
Polarization	Linear/circular		Linear/circular		Linear/circular		Linear		linear		
XPD(on Axis), dB(Linear)	35	35	35	35	35	35	35	35	35	35	
XPD across 1dB Beam Width, dB(Linear)	30	30	30	30	30	30	30	30	30	30	
Axis Ratio, dB (circular)	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	1	
VSWR	1.25	1.25	1.30	1.30	1.25	1.25	1.30	1.30	1.30	1.30	
Antenna Noise Temperature (4 Port Feed)											
10° Elevation `	50K		52K		55K		80K		79K		
30° Elevation	43K		45K		48K		70K		70K		
50° Elevation	41K		43K		45K		67K		66K		
-3 dB Beam Width, Mid-band	0.39°	0.24°	0.40°	0.24°	0.32°	0.22°	0.13°	0.11°	0.13°	0.09°	
Typical G/T (EL=10°)	33.5dB/K		33.2dB/K		34.8dB/K		40.0dB/K		40.1dB/K		
	(30K LNA)	_	(30K LNA)	_	(30K LNA)		(70K LNA)		(70K LNA)		
Tx. Total Power Capability, KW	000000	5	000000	5	000000	5	\\\\D ==	2		2	
Feed Interface	CPR229F	CPR137F	CPR229F	CPR137F	CPR229F	CPR137F	WR-75	WR-75	WR-75	WR-62	
Feed Insertion Loss,dB	0.4	0.3	0.4	0.3	0.4	0.3	0.5	0.4	0.5	0.5	
Isolation, Tx to Rx, dB Tx/Tx ,Rx /Rx, dB (linear)	85 30		85 30		85 30		85 30		85 30		
Tx/Tx ,Rx /Rx, dB (linear) Tx/Tx ,Rx /Rx, dB (Circular)	20		20		20		30		30		
Sidelobes	2	20 20 20 CCIR 580-5							/		
Mechanical Specification					0.	SII					
Antenna Diameter						13m					
Antenna Type		Cassagrain									
Surface Accuracy (RMS)		Solution So									
Reflector Construction		48 precision-formed aluminum panels with heat-diffusing white paint, Hot spray galvanized back structure.									
Mount type		Kingpost pedestal Kingpost pedestal									
Azimuth		±75°(three sections)					0°~350°(Continuous)				
Antenna Pointing Range	Elevation	0°~90°(Continuous) 0°~90°(Continuous)									
Antenna Folliting Nange	Polarization	±90°(Continuous) ±90°(Continuous)									
Drive Mode		Motorized									
Azimuth T	0.02°/S 0.003°-0.3°/S										
	Fravel Rate										
Polarization											
Invironmental Specification								,-			
Operational Wind					79k	m/h gusting to 12	6km/h				
Survival Wind		200km/h(at zenith)									
Temperature		-40°~+60°									
Relative Humidity		100%									
Solar Radiation		1135Kcal/h/m²									
Solar Radiation						1133NGal/11/111					
Solar Radiation Seismic(Survival)						0.3g(H), 0.15g(V					