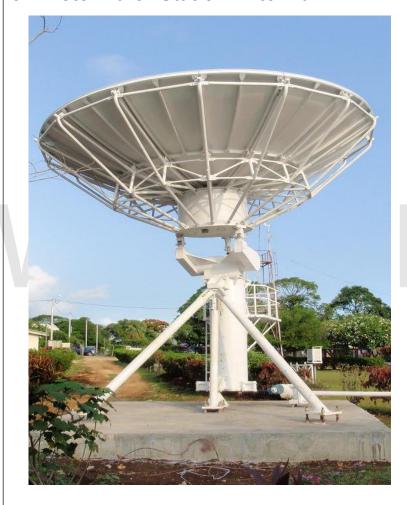
Http://www.probecom.cn

6.2 Meter Earth Station Antenna



General Description

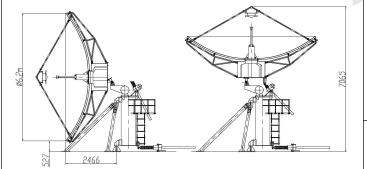
The probecom 6.2-meter antenna delivers exceptional performance for transmit/receive and receive only applications for L through Ka-band frequencies. This antenna offers a reflector design that incorporates precision-formed panels, truss radials and hub assembly using matched tooling for interchangeable 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 Specificati	on											
Type		C	62T	EC62T		IC	IC62T		2T	DBS	62T	
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	
Gain, Mid-band, dBi		46.2	50.1	46.0	50.3	47.7	51.1	55.8	57.4	55.8	59.4	
Polarization		Linear/Circular		Linear/ Circular		Linear/ Circular		Linear		Linear		
XPD(on Axis), dB(Linear)		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)		2	0.75	2	0.75	2	0.75	1	1	/	1	
VSWR		1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	
Antenna Noise Temperature (2 Port Feed) 10° Elevation 30° Elevation 50° Elevation		35K 25K 22K		34K 25K 22K		36K 27K 24K		50K 39K 36K		50K 39K 36K		
-3 dB Beam Width, Mid-band		0.87°	0.55°	0.89°	0.54°	0.73°	0.49°	0.29°	0.24°	0.29°	0.19°	
Typical G/T(EL=10°)		27.8dB/K (30K LNA)		27.6dB/K (30K LNA)		29.2dB/K (30K LNA)		34.7dB/K (70K LNA)		34.7dB/K (70K LNA)		
Tx. Power Capability, KW			1		1		1		1		1	
Feed Interface		CPR-229F	CPR-137F	CPR-229F	CPR-137F	CPR-229F	CPR-137F	WR-75	WR-75	WR-75	WR-62	
Feed Insertion Loss,dB		0.3	0.25	0.3	0.25	0.3	0.25	0.3	0.25	0.3	0.25	
Isolation, Tx to Rx, dB		3	35	85		85 CCIR 580-5		85		85		
Mechanical Specifica							0111 000 0					
	enna Diameter						6.2m					
Antenna Type			Ring Focus									
Surface Accuracy (RMS)			≤0.5mm ≤0.3mm									
Reflector Construction			16 precision-formed aluminum panels with heat-diffusing white paint, Hot spray galvanized back structure.									
	Mount type				ngpost pedestal			р, р	Turn tal			
Azimuth Antenna Pointing Range Elevation			±85°(three sections) 0°~90°(Continuous) ±90°(Continuous)						0°~350°(Continuous) 0°~90°(Continuous) ±90°(Continuous)			
Drive Mode			Motorized									
Azimuth Trav Motor Drive System Elevation Tra Polarization Tra		Travel Rate	0.03°/S 0.03°/S 1°/S					0.003°-0.3°/S 0.003°-0.3°/S 1°/S				
Environmental Spec												
	tional Wind					79	km/h gusting to 12	6km/h				
Survival Wind			200km/h(at zenith)									
Temperature			-40°~+60°									
Relative Humidity			100%									
Solar Radiation			1135Kcal/h/m²									
Seismic(Survival)			0.3g(H), 0.15g(V)									
	Loading					- 10	Operational; 25mr					