

2.4 METER EARTH STATION ANTENNA

Shaanxi Probecom Microwave Technology Co.,Ltd. is a specialized company engaged in the design and manufacture of satellite communication earth station antenna with a selected range from 1.8M to 16M (C-Band, KU-Band, Ka-Band, X-band, S-band, L-band)and relevant servo equipment including antenna control system and beacon receiver. Microwave antenna, TVRO antenna and Flyaway antenna, Microwave components and customerized products is also provided.



Probecom 2.4 Meter Ring focus antenna can provide Tx/Rx 2-port feed in switchable linear & circular polarization for C-band, 2.4m Ku band can only be for linear polarization. Delivering exceptionally high performance for transmit/receive applications.

Probecom 2.4M antenna RF specification can adhere to FCC Regulation25.209,IESS and ITU-RS.580-5,INMARSAT, ASIASAT,INTELSAT, APT and CHINASAT,etc.

Probecom 2.4M antenna reflector incorporates stretch-formed doubly contoured panels with matched radials and hub for ease of field alignment. The standard designed azimuth over elevation pedestal provides a cost-effective solution for high stiffness and stability, full orbital arc coverage and fine drive performance, and ensures the pointing accuracy.

Highlighted Features

- *Meets CCIR 580 and INTELSAT Requirements
- *CP/LP switchable feed
- *High RF performance
- *Stainless hardware
- *Different frequency ranges from many feed configurations

Options

- *L,S,X bands and multi-bands
- *800MHz bandwidth is available
- *Feed blower or deicing with automatic controls
- *Two or four Tx/Rx port in linear polarized feeds

Antenna Accessory

Motorization Kits
Limit Switches
ODU Support Kits
Factory Feed System Testing and Documentation
Ocean /Air Transport Packing
Foundation Kit
Lightening Rod Kit
Grounding Kit Cable-Mounting Kit
Anti-icing and Deicing



Electrical Spec	ification					
Туре			C24T		K24T	
			C-Band		Ku-Band	
Operating Frequency, GHz		Receive	Transmit	Receive	Transmit	
		3.625~4.2	5.85~6.425	10.95~12.75	13.75~14.5	
Gain, Mid-band, dBi			38.18	41.76	47.48	48.79
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-Polari	2-P∩	rt Feed	1.30	1.09		
VSWR			1.25	1.25	1.25	1.25
Antenna Noise Temperature						
2-port feed			32K		52K	
10° Elevation			24K		32K 38K	
30° Elevation			24K 20K		34K	
50° Elevation		ZUK		341		
-3 dB Beam Width, Mid-band		2.03°	1.34°	0.69°	0.59°	
Typical G/T(EL>10°)		20dB/K		27.1dB/K		
		(30° LNA)		(70° LNA)		
Tx. Power Capability, KW				5		1
Feed Interface			CPR—229F	CPR—137F	WR-75	WR-75
Feed Insertion Loss, dB		0.2	0.2	0.25	0.2	
Isolation, Tx to Rx, dB			85		85	
First Side lobe			-14		-14	
90% Peaks under Following Envelop			29-25logθ(1°≤θ < 20°)		29-25logθ(1°≤θ < 20°)	
Mechanical Sp	ecification					
A	Antenna Dia	meter		2.4m		
Antenna Type				Ring Focus		
Surface Accuracy (RMS)				≤0.35mm		
El			zimuth	0°~360°(Continuous)		
			evation	0°~90°(Continuous)		
			arization	zation ±90°(Continuous)		
Drive Mode				Manual or Motorized		
Motor Drive Azimuth Trave			el Rate	ote 0.30°/S(0.06°/S)		
System Elevation Travel Rate				0.20°/S(0.04°/S)		
Environmental	Specification	on				
Operational Wind				72km/h gusting to 97km/h		
Survival Wind				200km/h		
Temperature				-40°~+60°		
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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