

3.7 METER KA BAND EARTH STATION ANTENNA



1. General Description

Probecom 3.7M Ka band antenna adopts all aluminum re-enforced reflectors, consisting of precisely formed panels with matched radials and hub assemblies, ensure the ease of installation. 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 for Ka-Band.

It is widely and ideally used for Broadcasters, Service Providers, GSM operator, Satellite operator, Military and Government Agencies, FreeLands or Rescue Organizations.

2. Highlighted Features

- *High RF performance
- *High gain, low sidelobes, low cross polarization
- *Galvanized stainless steel hardware
- *Different frequency ranges from many feed configurations

3. Options

- *Full motion antenna
- *Feed blower or deicing with automatic controls
- *Two or four Tx/Rx port in linear or circular polarized feeds



http://www.probecom.cn

*Installation and maintenance services

4. Antenna Accessory

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

5. Four ports Circular antenna specification

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RF Specifications		Receive		Transmit
Operating Frequency ,GHz		17.7-20.2		27.5-30.0
Gain, Mid-band, dBi		55.1+20Log(F/20)		58.2+20Log(F/30)
Polarization		LHCP/RHCP		
VSWR		1.30:1		
Antenna Noise temperature,K		120 (Elevation 20°)		
Feed Insertion Loss, dB		0.6		
Axial Ratio, dB		0.75		0.5
3dB bandwidth		0.29°		0.20°
Isolation, Tx to Rx, dB		>85		
G/T (dB/K)		>31. 2+20 lg (f/20) dB/K		
Side lob		First lobe: ≤-14dB ITU-RS 580		
Power handle				400w
Feed interface		WR42F(BJ-220)		WR28F(BJ-320)
Mechanical Specification	n			
Antenna Diameter			3.7M	
Reflector Material			Aluminum	
Antenna Optics			Dual Modified Cassegrain	
Antenna Adjusting	AZ		±90° Continuous	
Range	EL		5° to 90° Continuous	
Drive Speed		0.01° /s - 0.2° /s		
Surface Accuracy			<0.25mm	
Environmental Specifica	ation			
Wind Loading			Operational 72km/h	
			Survival 200km/h	
Temperature			-40° to 60℃	
Rain(operational)			100mm/hr	
Relative Humidity			100%	