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2.4 METER KA BAND EARTH STATION ANTENNA

1. General Description

Probecom 2.4M 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
- *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



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5. Two 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		51.0+20Log(F/20)		54.5+20Log(F/30)
Polarization		LHCP/RHCP		
VSWR		1.30:1		
Antenna Noise temperature,K		105 (Elevation 20°)		
Feed Insertion Loss, dB		0.4		
Axial Ratio, dB		2.5		2.5
3dB bandwidth		0.46°		0.30°
Isolation, Tx to Rx, dB		>85		
G/T (dB/K)		>27. 3+201g (f/20) dB/K		
Side lobe		Fri st lobe: ≤-14dB ITU-RS 580		
Power handle				500W
Feed interface		WR42F (BJ-220) WR28F (BJ-320)		
Mechanical Specification				
Antenna Diameter			2.4m	
Reflector Material		Aluminum		
Antenna Optics			Offset	
Antenna Adjusting	AZ		±90°	
Range	EL		5° to 90° Continuous	
Drive Speed			0.01° /s	
Surface Accuracy			<0.25mm	
Environmental Specification				
Wind Loading			Operational	72km/h
			Survival	220km/h
Temperature			-40° to 60℃	
Rain (Operational)			100mm/hr	
Relative Humidity			100%	