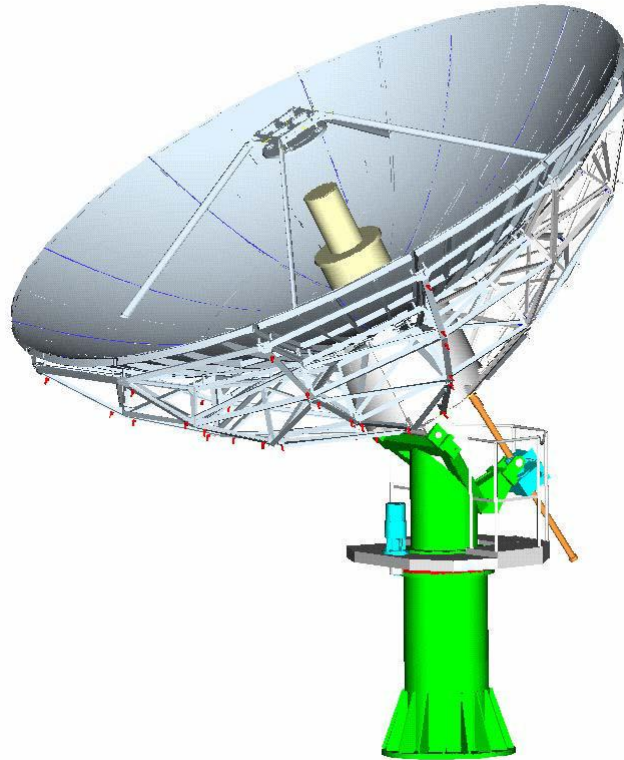


## 7.3 METER KA BAND EARTH STATION ANTENNA



### 1. General Description

Probecom 7.3M 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

### 5. Four ports Circular antenna specification

RF Specifications	Receive	Transmit
Operating Frequency ,GHz	17.7-20.2	27.5-30.0
Gain, Mid-band, dBi	61+20Log(F/20)	64+20Log(F/30)
Polarization	LHCP/RHCP	
VSWR	1.30 : 1	
Antenna Noise temperature,K	130 (Elevation 20° )	
Feed Insertion Loss, dB	0.6	
Axial Ratio, dB	0.75	0.5
3dB bandwidth	0.14°	0.10°
Isolation, Tx to Rx, dB	>85	
G/T (dB/K)	>36.8+20 lg(f/20) dB/K	
Side lobe	First lobe: ≤-14dB ITU-RS 580	
Power handle		400w
Feed interface	WR42F(BJ-220)	WR28F(BJ-320)
<b>Mechanical Specification</b>		
Antenna Diameter	7.3M	
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	
<b>Environmental Specification</b>		
Wind Loading	Operational	72km/h
	Survival	200km/h
Temperature	-40° to 60°C	
Rain(operational)	100mm/hr	
Relative Humidity	100%	