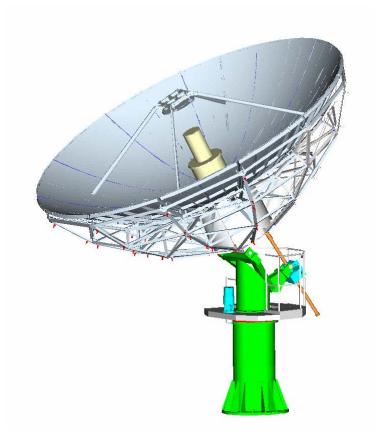


#### 13 METER KA BAND EARTH STATION ANTENNA



### 1. General Description

Probecom 13M 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	66.1 + 20Log(F/20)	69.2 + 20Log(F/30)	
Polarization	LHCP/RHCP		
VSWR	1.30:1		
Antenna Noise temperature, K	150(Elevation 20°)		
Feed Insertion Loss, dB	0.6		
Axial Ratio, dB	0.75	0.5	
3dB bandwidth	0.081°	0.057°	
Isolation, Tx to Rx, dB	>85		
G/T(dB/K)	>41.6+20lg(f/20) dB/K		
Side lobe	First lobe: ≤-14dB ITU-RS 580		
Power handle		400W	
Feed interface	WR42F (BJ-220)	WR28F (BJ-320)	

Mechanical Specification					
Antenna Diameter		13M			
Reflector Material		Aluminum			
Antenna Optics		Dual Modified Cassegrain			
Antenna Adjusting Range	AZ	±90°Continuous			
	EL	5°to 90°Continuous			
Drive Speed		0.01°/s~0.2°/s			
Surface Accuracy		< 0.25 mm			
Environmental Specification					
Wind Loading		Operational	72 km/h		
		Survival	200 km/h		
Temperature		- 40°to 60°C			
Rain (operational)		100mm/ hr			
Relative Humidity		100%			