



5.6 Meter Earth Station Antenna

The ASC Signal 5.6 meter Ku-band and K-band earth station antenna features a uniquely formed dual reflector Gregorian system. This configuration coupled with close-tolerance manufacturing provide maximum durability with minimal maintenance.

In addition, the 5.6 meter Ku-band and K-band antenna features a tripod ground mount fabricated from hot-dipped galvanized steel to ensure extended product life. All structural components are covered with a three year warranty.

- Deep equipment enclosure for hub mount electronics
- Russian Homologation Certificate # OC/1-AO-136
- 3 year warranty on all structural components



SPECIFICATIONS

5.6 Meter Earth Station Antenna

Electrical Performance

	Ku-band 2-Port Linear Pol Feed		Ku-band 4-Port Linear Pol Feed		K-band 2-Port Linear Pol Feed		K-band 4-Port Linear Pol Feed	
	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency (GHz)	10.700-13.250	13.750-14.800	10.700-12.750	13.750-14.800	10.700-12.750	17.300-18.400	10.700-12.750	17.300-18.400
Antenna Gain at Output Flange (dBi ±0.2 dB) Frequency								
11.9500 GHz	55.50		55.10		55.50		55.10	
14.2500 GHz	57.00		56.70		N/A		N/A	
17.3000 GHz	N/A		N/A		57.90		57.50	
18.4000 GHz	N/A		N/A		58.40		58.00	
Antenna Noise Temperature (Clear Sky Conditions at 68°F (20°C))								
10° Elevation	49 K		71 K		69 K		85 K	
30° Elevation	38 K		60 K		55 K		71 K	
50° Elevation	35 K		57 K		50 K		66 K	
Cross Polarization								
On Axis	35 dB	35 dB	35 dB	35 dB	35 dB	35 dB	35 dB	35 dB
Within 1 dB Beamwidth	35 dB	35 dB	35 dB	35 dB	35 dB	35 dB	35 dB	35 dB
Axial Ratio	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VSWR Performance	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1
Port-to-Port Isolation								
Rx to Rx	N/A		>35 dB		N/A		40 dB	
Tx to Rx	>40 dB		>85 dB		40 dB		85 dB	
Tx to Tx	N/A		>40 dB		N/A		40 dB	
Waveguide Interface Flange	WR75	WR75	Aluminum WR75	Aluminum WR75	WR62	WR75	WR62G	WR75
Tx Power Capacity	2000 W		2000 W		2000 W		2000 W	

Mechanical Performance

Optics Type	Dual Reflector, Gregorian	
Reflector Material	Precision Formed Aluminum	
Reflector Segments	16	
Mount Type	Tripod Mount	
Antenna Pointing Range	Elevation	5° Coarse, 85° Continuous
	Azimuth	180° Coarse, 120° Continuous
	Polarization	180° Coarse, 180° Continuous
Hub/Enclosure Dimensions	Diameter	1.32 m (52 in)
	Depth	1.17 m (46 in)

Environmental Performance

Operational Temperature	-40°C to 52°C (-40°F to 125°F)
Wind Loading (Survival)	200 km/h (125 mph) Any Position
Wind Loading (Operational)	with Motor 72 km/h (45 mph) with Gusts up to 105 km/h (65 mph)
	without Motor 72 km/h (45 mph) with Gusts up to 105 km/h (65 mph)
Rain	102 mm (4 in per hour)
Relative Humidity	100%
Shock and Vibration	As Encountered by Commercial Air, Rail and Truck
Atmospheric Conditions	As Encountered by Moderately Corrosive Coastal and Industrial Areas



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