



## 7.6 Meter Ku-band, K-band Earth Station Antenna

**T**he ASC Signal 7.6 meter earth station antenna provides high gain and exceptional pattern characteristics.

The electrical performance and versatility provide the ability to configure the antenna with a choice of linearly polarized or circularly polarized 2-port or 4-port combining networks. The 7.6 meter antenna is capable of operation at Ku-band and K-band with the selection of feed and combiner systems. This antenna features a computer-optimized dual reflector Gregorian system. This antenna is Compliant to ITU-R, S.580 and S.465



- High gain with excellent pattern characteristics.
- Rugged aluminum and steel construction.
- 3 Year warranty on structural components.
- Russian Homologation Certificate # OC/1-AO-136.

**Buy Now!**



## SPECIFICATIONS

### 7.6 Meter Ku-band, K-band 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- 4.800	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		57.70		57.30		57.80		57.30
14.2500 GHz		59.40		59.00				
17.3000 GHz						60.70		60.50
Antenna Noise Temperature (Clear Sky Conditions at 68°F (20°C)								
10° Elevation		55 K		78 K		69 K		86 K
30° Elevation		41 K		64 K		55 K		71 K
50° Elevation		36 K		59 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		40 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	Brass WR75	Brass WR75	Brass WR75	Brass WR75	Brass WR75	Brass WR62	Brass WR75	Brass WR62
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, 90° Continuous Azimuth ..... 180° Coarse, 120° Continuous Polarization ... 180° Coarse, 180° Continuous
Hub/Enclosure Dimensions	.....	Diameter ..... 1.33 m (52 in) ..... 1.17 m (46 in)

#### Environmental Performance

Operational Temperature	.....	-40°C to 52°C (-40°F to 125°F)
Wind Loading (Survival)	..... with Motor .....	200 km/h (125 mph) in Stationary Position
	..... without Motor .....	200 km/h (125 mph) in Stationary 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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