



9.4 Meter Ka-band Earth Station Antenna

The ASC Signal 9.4 Ka-band earth station antenna features Gregorian optics and a fully shaped main reflector. This configuration provides excellent pattern characteristics, high gain and superior pointing accuracy.

- Rugged aluminum and steel construction provides high winds survival in any stationary position.
- 3 year warranty on all structural components

A large equipment enclosure with door is located on the pedestal and allows hub mounting of electronic systems.

The ASC Signal 9.4 meter Ka-band antenna is backed by a three year warranty on all structural components.

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SPECIFICATIONS

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Electrical Performance

	Ka-band Circular Receive	4-Port Pol Feed Transmit	Wideband Receive
Frequency (GHz)	18.300- 20.200		28.300- 30.000
Antenna Gain at Midband	63.10 dB	66.60 dB	
Antenna Noise Temperature (Midband, Clear Sky Conditions at 68°F (20°C, Water Vapor Density < 7.5 g/m3)			
10° Elevation		123 K	
30° Elevation		88 K	
50° Elevation		82 K	
Cross Polarization On Axis Within 1 dB Beamwidth	N/A N/A	N/A N/A	
Axial Ratio	0.50 dB		0.50 dB
VSWR Performance	1.30:1	1.30:1	
Port-to-Port Isolation			
Rx to Rx		18 dB	
Tx to Rx		85 dB	
Tx to Tx		18 dB	
Waveguide Interface Flange	WR42	WR28	
Tx Power Capacity	500 W/Port		

Mechanical Performance

Optics Type	Dual Reflector, Gregorian
Reflector Material	Precision Formed Aluminum
Reflector Segments	16
Mount Type	Pedestal 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 50°C (-40°F to 125°F)
Wind Loading (Survival)	with Motor 125 mph (200 km/h) in Stationary Position without Motor 125 mph (200 km/h) in Stationary Position
Wind Loading (Operational)	with Motor 45 mph (72 km/h) with Gusts up to 65 mph (105 km/h) without Motor 45 mph (72 km/h) with Gusts up to 65 mph (105 km/h)
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