

PRODUCT SPECIFICATIONS



5.6 Meter Ka-band Earth Station Antenna

he ASC Signal 5.6 Ka-band earth station antenna features Gregorian ptics and a fully shaped main reflector. This configuration provides excellent pattern characteristics, high gain and superior pointing accuracy.

The unique design of the 5.6 meter Ka-band pedestal eliminates the need for critical foundation orientation. Each pedestal is engineered with self aligning bearings of the elevation pivots. In addition, azimuth/elevation anti-backlash ball jacks are incorporated to provide smooth positioning of the antenna. A large equipment enclosure with door is located on the pedestal and allows hub mounting of electronic systems.

The ASC Signal 5.6 meter Ka-band antenna is backed by a three year warranty on all structural components.

- Pedestal mount is designed to allow non-critical foundation orientation.
- Rugged aluminum and steel construction provides high winds survival in any stationary position.
- 3 year warranty on all structural components



5.6 Meter Ka-band Earth Station Antenna

Electrical Performance

	Ka-band Circular Receive		Ka-band 4- ba Circular I	nd	Ka-band Linear P Receive			d 4-Port Lin d Eutelsat F Transm	req
Frequency (GHz)	20.200- 21.200	30.000- 31.000	18.300- 20.200	28.300- 30.000	17.700- 20.200	27.000- 30.050	21.400- 22.000	27.000- 30.050	
Antenna Gain at Midband	59.80 dB		62.60 dB	59.20 dB	62.40 dB	59.00 dB	62.20 dB	60.20 dB	62.20dB
Antenna Noise Temperature (10° Elevation 30° Elevation 50° Elevation	16 12	Clear Sky Conditions at 0 K 6 K 8 K	68°F (20°C, War 132 K 98 K 92 K	ter Vapor Density(190 K 154 K 137 K	
Cross Polarization On Axis Within 1 dB Beamwidth	N/A N/A	N/A N/A	N/A N/A	N/A N/A	35 dB 35 dB	35 dB 35 dB	35 dB 35 dB	35 dB 35 dB	
Axial Ratio	0.50 dB		0.50 dB	0.50 dB	0.5	0 dB	N/A	N/A	N/A A/N
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 Tx to Rx Tx to Tx		18 dB 85 dB 18 dB		18 dB 85 dB 18 dB		35 dB 85 dB 35 dB		35 dB 85 dB 35 dB	
Waveguide Interface Flange	WR42	WR28	WR42	WR28	WR42	WR28	WR42	WR28	
Tx Power Capacity	500 W/Pc	ort	500 W	/Port	50	0 W/Port		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		5° Coarse, 85° Continuous 180° Coarse, 120° Continuous 180° Coarse, 180° Continuous		
Hub/Enclosure Dimensions	Diameter Depth			

Environmental Performance

Operational Temperature	-40°C to 50°C (-40°F to 125°F)		
Wind Loading (Survival) with Motor without Motor	125 mph (200 km/h) in Stationary Position 125 mph (200 km/h) in Stationary Position		
Wind Loading (Operational) with Motor without Motor	45 mph (72 km/h) with Gusts up to 65 mph (105 km/h) 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		



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