

PRODUCT SPECIFICATIONS



5.6 Meter Ka-band Earth Station Antenna

The 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 structural warranty
- Available with ASC's patented 3 -Axis SRT tracking Technology



SPECIFICATIONS

5.6 Meter Ka-band Earth Station Antenna

Electrical Performance

		d 4-Port Pol Feed Transmit	Ka-band 4-Po Circular I Receive		Ka-band Linear P Receive		Ka-band 4- Pol Feed Eutel Receive	Port Linear sat Frequency Transmit
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	62.20 dB
Antenna Noise Temperature (Midband, Cl 10° Elevation 30° Elevation 50° Elevation	, 16 12	ns at 68°F (20°C, Water Vapor D O K 6 K 8 K	lensity < 7.5 g/m3) 132 K 98 K 92 K		128 94 88	K	190 154 137	(
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	0.50 dB	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 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/Port		500 W/Port		500 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	Azimuth	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



ASC Signal Corporation 1120 Jupiter Road, Suite 102 Plano, TX 75074 USA Telephone: +1-214-291-7654 Fax: +1-214-291-7655

Internet: www.ascsignal.com