



7.3 Meter Earth Station Antenna

The superior performance of the ASC Signal 7.3 meter earth station antenna makes it an excellent choice for high-density data, voice, communications networks and broadcast applications.

The uniquely formed dual reflector Gregorian system and close-tolerance manufacturing techniques provide an extremely accurate surface contour, exceptionally high gain and closely controlled pattern characteristics. The 7.3 meter 2 or 4-port C-band INTELSAT® Type Approved antennas speed system deployment. Minimal testing and decreased administrative and approval requirements translate directly to cost savings.

- Self-aligning main reflector - No field alignment.
- Rugged aluminum and steel construction.
- 3 Year warranty on structural components.
- Russian Homologation Certificate # OC/1-AO-136.
- INTELSAT® Type Approval, IA032A00, 2-port; IA032B00, 4-port.



SPECIFICATIONS

7.3 Meter Earth Station Antenna

Electrical Performance

	C-band 2-Port Circular Pol Feed		C-band 2-Port Linear Pol Feed		C-band 4-Port Circular Pol Feed		C-band 4-Port Linear Pol Feed	
	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency (GHz)	3.625- 4.200	5.850- 6.425	3.625- 4.200	5.850- 6.425	3.625- 4.200	5.850- 6.425	3.625- 4.200	5.850- 6.425
Antenna Gain at Output Flange (dBi ±0.2 dB) Frequency								
4.0000 GHz	48.30		48.30		48.30		48.30	
6.1750 GHz	51.60		51.70		51.60		51.60	
Antenna Noise Temperature (Clear Sky Conditions at 68°F (20°C))								
10° Elevation	48 K		42 K		48 K		48 K	
30° Elevation	37 K		31 K		37 K		37 K	
50° Elevation	35 K		29 K		35 K		35 K	
Cross Polarization On Axis	N/A	N/A	N/A	N/A	N/A	N/A	35 dB	35 dB
Within 1 dB Beamwidth	N/A	N/A	N/A	N/A	N/A	N/A	35 dB	35 dB
Axial Ratio	2.3 dB	0.75 dB	N/A	N/A	0.50 dB	0.50 dB	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		N/A		20 dB		40 dB	
Tx to Rx	85 dB		85 dB		85 dB		85 dB	
Tx to Tx	N/A		N/A		20 dB		40 dB	
Waveguide Interface Flange	Brass CPR-137 G	Brass CPR-229G	Aluminum CPR-137G	Aluminum CPR-229G	Brass CPR-137G	Brass CPR-229G	Brass CPR-137G	Brass CPR-229G
Tx Power Capacity	500 W		5000 W		2500 W		2500 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	1.22 m (48 in)
	Depth	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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