

PRODUCT SPECIFICATIONS



# 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<sub>®</sub> Type Approval, IAO32AOO, 2-port; IAO32BOO, 4-port.



## **SPECIFICATIONS**

# 7.3 Meter Earth Station Antenna

#### **Electrical Performance**

		l 2-Port Pol Feed Transmit		d 2-Port Pol Feed Transmit		4-Port Pol Feed Transmit		d 4-Port Pol Feed 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 $\pm 0.2$ 4.0000 GHz 6.1750 GHz	48	.30	48.30 51.70		48. 51.	.30 .60	48.3 51.6	
Antenna Noise Temperature (Clear Sky Co 10° Elevation 30° Elevation 50° Elevation	O° Elevation 37 K		42 K 31 K 29 K		48 K 37 K 35 K		48 K 37 K 35 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	N/A N/A	N/A N/A	35 dB 35 dB	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 Tx to Rx Tx to Tx	N/ 85 N/	'A dB 'A	N/A 85 dB N/A		20 85 20	dB	40 c 85 c 40 c	IB
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	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 52°C (-40°F to 125°F)
Wind Loading (Survival) with Motor without Motor	200 km/h (125 mph) in Stationary Position 200 km/h (125 mph) in Stationary Position
Wind Loading (Operational) with Motor without Motor	72 km/h (45 mph) with Gusts up to 105 km/h (65 mph) 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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are subject to change without notice.

ASC-ESA16 revA

All designs, specifications and availabilities of

products and services presented in this bulletin