

PRODUCT SPECIFICATIONS



This antenna system is used worldwide in broadcast applications and high density data, voice and communications networks.





# 9.4 Meter C-band or Ku-band Earth Station Antenna

Like all ASC Signal earth station antennas, the 9.4 Meter Earth Station Antenna provides high gain and exceptional pattern characteristics.

The electrical performance and exceptional versatility provides the ability to configure the antenna with your choice of combining network. That versatility is provided at the time of initial purchase, as well as in the future, as your satellite communication requirements evolve. This antenna system is used worldwide in broadcast applications and high density data, voice and communications networks. The ASC Signal 9.4 meter earth station antenna features a computer-optimized dual reflector Gregorian optics system and close-tolerance manufacturing techniques

This combination provides extremely accurate surface contour resulting in exceptionally high gain and closely controlled pattern characteristics.

ASC Signal earth station antennas provide maximum durability with minimal maintenance.

- Rugged aluminum and steel construction provides 125 mph (200 km/h) survival.
- 3 year warranty on all structural components.
- Electrical performance meets or exceeds U.S. FCC regulation 25-209, Eutelsat standards and ITU-R, S.580-5 and S.465-5

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#### **Electrical Performance**

		nd 2-Port Pol Feed Transmit		d 4-Port Pol Feed Transmit		d 2-Port Pol Feed Transmit		d 4-Port Pol Feed Transmit		d 4-Port Pol Feed Transmit	
Frequency (GHz)	10.700- 13.250	13.750- 14.800	10.700- 12.750	13.750- 14.800	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 Midband, dBi	59.50	60.90	59.20	60.60	50.70	54.40	50.60	54.30	50.60	54.30	
Antenna Noise Temperature (Clear Sky Conditions at 20°C (68°F)											
10° Elevation 30° Elevation 50° Elevation	54 K 39 K 36 K		70 K 56 K 53 K		39 K 30 K 29 K		45 K 36 K 35 K		45 K 36 K 35 K		
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	1.30:1	1.30:1	
Port-to-Port Isolation Tx/Rx Tx/Tx	40 dB —		75 dB 40 dB		85 dB 85 dB		85 dB 20 dB		85 dB 40 dB		
Tx Power Capacity	2 kW	2 kW		2 kW		0.5 kW		2.5 kW		2.5 kW	
Maximum Pressurization	ntion 0.50 psi		0.50 psi		0.50 psi		0.50 psi		0.50 psi	0.50 psi	

### **Mechanical Performance**

Optics Type		Dual-Reflector, Gregorian			
Reflector Material		Precision Formed Aluminum			
Reflector Segments		20			
Hub/Enclosure Dimension	ıs Diameter	2.14 m (84 in) 1.17 m (45 in)			
Mount Type		Pedestal Mount			
Antenna Pointing Range Course/(Continuous)					
	Elevation	0° (90°)			
	Azimuth	180° (120°)			
	Polarization	360° (180°)			

## **Environmental Performance**

Operational Temperature	-45.5°C to 52°C (-40°F to 125°F)
Operational Winds	45 mph (72 km/h) Gusts to 65 mph (105 km/h) (Fixed or Motorized)
Survival Winds	125 mph (200 km/h) (In Stationary Position Fixed or Motorized)
Seismic (Earthquakes)	1 G Vertical and Horizontal Acceleration ( 8.3 Richter Magnitude and 11 Modified Mercalli Scale)
Rain	102 mm (4 in per hour)
Solar Radiation	1135 Watts/m2 (360 BTU/h/ft2)
Relative Humidity	100%
Shock and Vibration	As Encountered by Commercial Air, Rail and Truck Shipment
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