PRODUCT SPECIFICATIONS

3.7 Meter Dual Reflector Pedestal Mount

The ASC Signal 3.7 meter dual reflector pedestal mount earth station antenna provides extremely accurate surface contour, high gain and superior efficiency.

The versatile pedestal mount allows for fixed or motorized applications and features 180 degree azimuth coverage in three continuous overlapping ranges.

The aluminum hub and hot-dipped galvanized steel mount maintains pointing accuracy and ensures durability and reliability.

- High gain and excellent pattern characteristics
- Gregorian Optics
- Self-aligning main reflector
- 180 mph high wind option (manual antennas)
- 3 year warranty on all structural components
- Eutelsat Type Approval, 2-Port Ku-band EA-A002
- Asiasat Approval, Type 2
- Apstar Approval
- INTELSAT® Approval, E-2 at Ku-band: IA12A00, 2-Port; IA12B00, 4-Port
- U.S. FCC Regulation 25.209 at Ku-band Approval
- Russian Homologation Certificate OC/1-AO-136

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SPECIFICATIONS

3.7 Meter Dual Reflector Pedestal Mount

Electrical Performance (Specifications below are a sample of some feed performance ranges available - call for specific Specification Data)

	Ku-band 2-Port Linear Pol Feed		Ku-band 4-Port Linear Pol Feed		K-band 2-Port Linear Pol Feed		K-band 4-Port Linear Pol Feed		C-band 2-Port Circular Pol Feed	
	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency (GHz)	10.700-12.750	13.750-14.800	10.700-12.750	13.750-14.800	10.700-12.750	17.300-18.400	10.700-12.750	17.300-18.400	3.625-4.200	5.850-6.425
Insertion Loss dB	0.15	0.20	0.20	0.30	N/A	N/A	0.20	0.30	0.15	0.20
Gain @ Feed Output Flange (dBi ± 0.2 dB)										
3.625 GHz	N/A		N/A		N/A		N/A		40.50	
5.850 GHz	N/A		N/A		N/A		N/A		45.30	
10.700 GHz	50.60		50.00		50.50		N/A		N/A	
12.750 GHz	52.10		51.70		51.90		N/A		N/A	
13.750 GHz	52.50		52.20		N/A		N/A		N/A	
14.800 GHz	53.30		53.00		N/A		N/A		N/A	
17.300 GHz	N/A		N/A		N/A		54.20		N/A	
18.400 GHz	N/A		N/A		N/A		54.60		N/A	
Antenna Noise Temperature										
10° Elevation	52 K		52 K		52 K		73 K		42 K	
30° Elevation	39 K		39 K		39 K		57 K		37 K	
50° Elevation	37 K		37 K		37 K		54 K		35 K	
Port-to-Port Isolation										
Rx to Rx	40 dB		40 dB				40 dB		85 dB	
Tx to Rx	40 dB		85 dB		40 dB		80 dB		40 dB	
Waveguide Interface Flange	Brass WR75	Brass WR75	Brass WR75G	Brass WR75G	Brass WR75	Brass WR62	WR75	WR62	CPR-137	CPR-229
Tx Power Capacity	2000 W		2000 W		1000 W		1000 W/Per Port		500 W	
Maximum Pressurization	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		2
Hub/Enclosure Dimensions	Diameter	1.22 m (48.00 in)
	Depth	0.61 m (24.00 in)
Mount Type		Pedestal
Antenna Pointing Range, Course	Elevation	0° - 90°
	Azimuth	180° Coarse, 120° Continuous

Environmental Performance

Operational Temperature		-45.5°C to 52°C (-50°F to 125°F)
Wind Loading	Survival	200 km/h (124 mph) (with or without Motor Drives)
	Operational	72 km/h (45 mph) with Gusts to 105 km/h (65 mph) (with or without Motor Drives)
Rain		102 mm (4 in per hour)
Solar Radiation		360 BTU/hr/ft^2 (1135 W/m^2)
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