



3.6 Meter Pedestal Earth Station Antenna

The ASC Signal 3.6 Meter earth station antenna is capable of operation in C-, X- and Ku-bands with the proper selection of feed and combiner systems.

The versatile pedestal mount features 180-degree azimuth coverage in three continuous 120-degree overlapping ranges and 90-degree continuous elevation adjustment. This large range of adjustment provides non-critical foundation orientation and the ability to view geostationary satellites, horizon-to-horizon, from any location, worldwide.

- Self-aligning main reflector requires no field alignment
- Installation without a crane using optional hoisting kit
- Prime focus feed system optics and fully-shaped parabolic main reflector provide excellent pattern characteristics



SPECIFICATIONS

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Electrical Performance

	C-band 2-Port Circular Pol Feed		C-band 2-Port Linear Pol Feed		Ku-band 2-Port Linear Pol Feed		X-band 2-Port Circular 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	10.700- 13.250	13.750- 14.800	7.250- 7.750	7.900- 8.400
Insertion Loss dB	0.30	0.20	0.20	0.20	0.10	0.10	0.20	0.20
Antenna Gain @ Midband	41.70	44.30	41.80	44.40	50.10	51.50	46.70	47.30
Antenna Noise Temperature								
10° Elevation	52 K		47 K		54 K		52 K	
30° Elevation	39 K		34 K		39 K		39 K	
50° Elevation	35 K		30 K		35 K		35 K	
Port-to-Port Isolation								
Rx to Tx	50 dB		100 dB		30 dB			
Tx to Rx	85 dB		40 dB		40 dB		20 dB	
Waveguide Interface Flange	CPR-229G	CPR-229G	CPR-137G	CPR-137G	WR75	WR75	WR112	WR112
Tx Power Capacity	500 W		5000 W		2000 W		750 W	
Maximum Pressurization	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
Mount Type	Pedestal

Environmental Performance

Operational Temperature	-45.5°C to 52°C (-50°F to 125°F)
Wind Loading	Survival 200 km/h (125 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)
Seismic (Earthquakes):	1 G Vertical and Horizontal Acceleration; Equivalent to a Richter Magnitude 8.3 and Grade 11 on the Modified Mercalli scale
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



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