

PRODUCT SPECIFICATIONS



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



4.0 Meter Earth Station Antenna System

The ASC Signal 4.0 low-cost earth station antenna provides extremely accurate surface contour, high gain and superior efficiency.

Option of 2 mount types allows versatility in installations. The optional pedestal mount allows for motorized applications and features 180 degree azimuth coverage in three continuous overlapping ranges. The antenna offers an optional low-cost mount utilizing a customer provided pipe mount. In addition, an optional equipment enclosure is available for mounting RF equipment at the antenna.

This antenna is capable of C, X, Ku, and Low PIM

- High gain, excellent pattern characteristics. Gregorian Optics
- Self-aligning main reflector no optional field alignment
- 3-year warranty on all structural components
- Meets U.S. FCC Regulation 25.209 at Ku-band
- ITU-R S.580 and S.465 compliant

SPECIFICATIONS

4.0 Meter Earth Station Antenna System

Electrical Performance

	C-band 2-Part Linear Pol Feed		C-band 2-Port Ciraular Pol Feed		Kuband 2-Port Linear Pol Feed		Ku-band 4-Port Linear Pol Feed	
Frequency (GHz)	Receive 3.625 4.200	Transmit 5.850 6.425	Receive 3.625 4.200	Transmit 5.850 6.425	Receive 10.700 12.750	Transmit 13.750 14.800	Receive 10.700 12.750	Transmit 13.750 14.800
Antenna at Midband	42.30 dB	46.30 dB	42.30 dB	46.30 dB	51.60 dB	53.10 dB	51.30 dB	52.80 dB
Antenna Noise Temperature 10° Elevation 20° Elevation 40° Elevation	9 K 41 K 38 K		49 K 41 K 38 K		57 K 41 K 39 K		67 K 53 K 50 K	
Cross Polarization On Axis Within 1 dB Beamwidth	30.0 dB 28.0 dB	30.0 dB 28.0 dB	20.7 dB 20.7 dB	27.3 dB 27.3 dB	35 dB 27 dB	35 dB 35 dB	35 dB 27 dB	35 dB 35 dB
Axial Ratio				0.75 dB				
VSVVR 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
Partto-Part Isolation Rx to Tx (Rx Frequency Tx to Rx (Tx Frequency) Waveguide Interface Flange	0 dB -85 dB CPR229 G	-30 dB 0 dB CPR-137 G	0 dB -85 dB CPR-229 G	50 dB -0 dB CPR-137 G	0 dB -40 dB WR-75	-30 dB 0 dB WR-75	-0 dB -85 dB WR-75	-50 dB 0 dB WR-75
Tx Power Capacity	2 KW CW		500 W CW		2 KW CW		1 KW CW	

Mechanical Performance

Environmental Performance

Operational Temperature........40°F to 125°F (40°C to 50°C)

Wind Loading (Operational).....45 mph (72 km/h) Gusting to 65 mph (105 km/h)

Wind loading (Survival).......125 mph (200 km/h)
In any Position

Rain............4 inch per hour (102mm)

Solar Radiation........360 BTU/h/ft² (1135 W/m²)

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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