PRODUCT SPECIFICATIONS

4.9 Meter Five-Band Earth Station Antenna

This versatile antenna is capable of reception and transmission for C-band, X-band, K-band, Ku-band and Ka-band configurations.

RoHS

The ASC Signal 4.9 meter earth station antenna is engineered for maximum accuracy, versatility and low maintenance.

This quad-band antenna features a dual reflector Gregorian system that provides excellent pattern characteristics and high gain. In addition, the 4.9 meter quad-band antenna is equipped with a self aligning main reflector that requires no optical field alignment.

This versatile antenna is capable of reception and transmission for C-band, X-band, Ku-band, K-band and Ka-band configurations.

The ASC Signal 4.9 meter antenna conforms to the highest mechanical design standards and is capable of surviving winds up to 200 km/h (120 mph).

All ASC Signal earth station antennas are backed with a 3 year structural components warranty.

- Easy assembly
- 3 year structural component warranty
- High gain
- Configured for C-band, X-band, Ku-band, K-band and Ka-band transmit and receive
- Available in X-band Low PIM versions

SPECIFICATIONS

4.9 Meter Quad-Band Earth Station Antenna

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

	C-band 2-Port Circular Pol Feed		X-band 2-Port Circular Pol Feed		Ku-band 4-Port Linear Pol Feed		Ka-band 4-Port Circular Pol Feed	
	Receive	Transmit	Receive	Transmit	Receive	Transmit	Receive	Transmit
Frequency (GHz)	3.625- 4.200	5.850- 6.425	7.250- 7.750	7.900- 8.400	10.700- 12.750	13.750- 14.800	20.200- 21.200	30.000- 31.000
Antenna Gain at Midband, dBi	44.70	48.30	50.00	50.70	53.20	55.10	58.10	60.10
Antenna Noise Temperature 10° Elevation 30° Elevation 50° Elevation		49 K 41 K 38 K		69 K 57 K 55 K		68 K 53 K 51 K		123 K 76 K 67 K
Cross Polarization On-Axis Within 1 dB Beamwidth	20.7 dB 20.7 dB	27.3 dB 27.3 dB	21.3 dB 21.3 dB	21.3 dB 21.3 dB	35.0 dB 27.0 dB	35.0 dB 35.0 dB	30.0 dB 30.0 dB	30.0 dB 30.0 dB
Axial Ratio	1.20 dB	0.75 dB	1.50 dB	1.50 dB			0.50 dB	0.50 dB
VSWR Performance	1.30:1	1.30:1	1.30:1	1.30:1	1.35:1	1.35:1	1.30:1	1.30:1
Port-to-Port Isolation Rx/Tx Tx/Tx	0 dB 85 dB	50 dB 0 dB	0 dB 20 dB	20 dB 0 dB	0 dB 85 dB	50 dB 0 dB	0 dB 85 dB	50 dB 0 dB
Waveguide Interface Flange	CPR-229 G	CPR-137 G	CPR-229G	CPR-137G	WR-75	WR-75	WR-42	WR-42
Total Power Handling Capability	500 W CW		2 kW CW		1 kW CW		1 kW CW	

Mechanical Performance

Optics Type ..... Dual Reflector, Gregorian

Reflector Material ..... Precision Formed Aluminum

Reflector Segments 12

Antenna Pointing Range (Course/Continuous)

Elevation ..... 0° to 90°
Azimuth ..... 360° (±1-60°)
Polarization ... 200°

Environmental Performance

Operational Winds ..... 45 mph (72 km/h)
Gusts to 65 mph (104 km/h)*

Survival Winds ..... 200 km/h (125 mph) (In Stationary Position)

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

NOTE: Specifications provided are for representative feeds. Other feeds are available for this antenna size.

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