

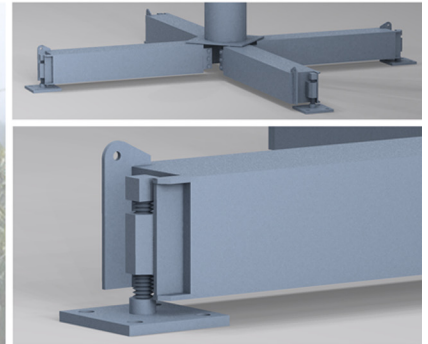
**PRODUCT  
SPECIFICATIONS**

Detail Images

*(on right from top to bottom)*

Heavy duty support legs

Adjustable feet with tie down  
flange



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

## MilSatCom 4.9 Meter Quad-Band Earth Station Antenna

**T**he ASC Signal Corporation 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 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 and Ka-band transmit and receive
- Rapid deployment configuration available with 8 hour installation time
- Standard configurations available for quick delivery

## SPECIFICATIONS

### MilSatCom 4.9 Meter Quad-Band Earth Station Antenna

#### Electrical Performance

	C-band 2-Port Circular Pol Feed		X-band 2-Port Circular Pol Feed		Ku-band 4-Port Linear Pol Feed		Ku-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	49 K		69 K		68 K		123 K	
30° Elevation	41 K		57 K		53 K		76 K	
50° Elevation	38 K		55 K		51 K		67 K	
Cross Polarization								
On-Axis	20.7 dB	27.3 dB	21.3 dB	21.3 dB	35.0 dB	35.0 dB	30.0 dB	30.0 dB
Within 1 dB Beamwidth	20.7 dB	27.3 dB	21.3 dB	21.3 dB	27.0 dB	35.0 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	0 dB	50 dB	0 dB	50 dB	0 dB	50 dB	0 dB	50 dB
Tx/Tx	85 dB	0 dB	110 dB	0 dB	85 dB	0 dB	85 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 Temperature .....	45 mph (72 km/h) Gusts to 65 mph (104 km/h)*
Survival Winds .....	200 km/h (125 mph) (In Stationary Position)
Rain .....	4 in/hr (102 mm/hr)
Solar Radiation .....	360 BTU/h/ft <sup>2</sup> (1135 W/m <sup>2</sup> )
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

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



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