

PRODUCT SPECIFICATIONS



4.5 Meter Trifold[®] Transportable

The ASC Signal 4.5 Meter Trifold antenna is designed for worldwide use in transportable applications serving high density data, voice and communications networks. Like all ASC Signal earth station antennas, this Transportable Earth Station Antenna proides high gain and exceptional pattern characteristics. The electrical performance and exceptional versatility allows configuration with your choice of transmit/recieve feed assemblies. Designed to meet a wide range of regulatory standards, including INTELSAT 's standard F1 and E2 specifications The antenna's Trifold® reflector panels are cut from a single-piece of precision spun aluminum. Each panel is designed and manufactured to provide excellent thermal expansion characteristics and ensures the extremely accurate surface contour.

All Trifold° antennas meet or exceed Asiasat, Eutelsat, Panamsat, and INTELSAT. F-1 and E-2 requirements. In addition, they meet or exceed ITU-R S.580 and S.465 recommendations for pattern performance for 2° satellite spacing.

The unique Trifold design enables oneperson deployment in less than 30 minutes. A large range of adjustment provides non-critical positioner/trailer orientation and allows viewing of geostationary satellites, horizon to horizon, from any location world wide. An aluminum back structure and hot-dipped galvanized steel positioner maintain pointing accuracy, durability and reliability.



4.5 Meter Trifold Transportable

Electrical Performance

	C-band CircularF Receive	PolFeed	C-band Linear Po Receive	ol Feed	Ku-banc Linear Po Receive	ol Feed	X-band Circular Receive	PolFeed
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
Gain @ Feed Output Flange (d	Bi ± 0.2 dB)							
3.625 GHz	42.	70	42.7	0				
6.425 GHz	46.80		46.90					
7.250 GHz							48.4	
8.400 GHz					F.1	40	49.8	30
10.700 GHz 14.500 GHz					51.4 52.5			
					J2.	90		
Antenna Noise Temperature 10° Elevation 30° Elevation 50° Elevation	52 39 35	K		47 K 34 K 30 K		53 K 41 K 38 K		45 K 34 K 29 K
Port-to-Port Isolation Rx to Tx Tx to Rx	50 dB 85 dB		100 40 d		30 dB 40 dB		20 dB	
Waveguide Interface Flange	Brass CPR-229G	Brass CPR-2137G	Brass CPR-229G	Brass CPR-137G	Brass WR75	Brass WR75	Alum. WR112	Alum. WR112
Tx Power Capacity	500 W		500	0 W		1000 W		750 W
Mechanical Performance				Environmental	Performano	e		

Optics Type	Prime Focus
Reflector Material	Precision Formed Aluminum
Reflector Segments	3
Mount Type	Pedestal

Operational Temperature45.5°C to 52°C (-50°F to 125°F)					
	Wind Loading	Survival	105 km/h (65 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		



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All designs, specifications and availabilities of products and services presented in this bulletin are subject to change without notice.

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Industrial Areas