



3.7 Meter Trifold® Transportable

The ASC Signal modular 3.7 meter Trifold® transportable design enables one person deployment in less than 30 minutes. A large range of adjustment provides non-critical positioner/trailer orientation and the ability to view geostationary satellites, horizon-to-horizon, from any location worldwide. The antennas' aluminum trifold reflector panels are cut from a single-piece precision spinning. Panel design and manufacture provide excellent thermal expansion characteristics and ensures the accurate surface contour.

Unique subreflector and strut storage: Collapsible struts and storage for subreflector under the reflector. 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.

- Asiasat, Eutelsat, Panamsat and INTELSAT® requirements
- U.S. FCC regulation 25-209 for mandatory pattern requirements for 2° satellite spacing. Based on off-satellite measurements at Ku-Band
- ITU-R S.580 and S.465 recommendations for pattern performance for 2° spacing
- Russian Homologation Certificate #OC/1-AO-136



SPECIFICATIONS

3.7 Meter Trifold® Transportable

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	0.50	0.20	0.15	0.20	0.15	0.20	0.15	0.15
Gain @ Feed Output Flange (dBi ± 0.2 dB)								
	3.625 GHz	40.50	40.50					
	7.250 GHz						47.40	
	7.900 GHz						48.00	
	10.700 GHz				50.50			
	13.750 GHz				52.20			
Antenna Noise Temperature								
10° Elevation	36 K		36 K		39 K		39 K	
30° Elevation	23 K		23 K		26 K		27 K	
50° Elevation	21 K		21 K		24 K		24 K	
Port-to-Port Isolation								
Rx to Rx	85 dB		85 dB		40 dB		25 dB	
Tx to Rx	40 dB		85 dB		40 dB		25 dB	
Waveguide Interface Flange	Brass CPR-229G	Brass CPR-137G	Brass WR229	Brass WR137	Brass WR75	Brass WR75	Aluminum 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	3

Environmental Performance

Operational Temperature	-40°C to 50°C (-540°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)
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



ASC Signal Corporation
620 North Greenfield Parkway
Garner, NC 27529 USA

Telephone: +1-919-329-8700

Fax: +1-919-329-8701

Internet: www.ascsignal.com

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

ASC-ESA6

© 2007 ASC Signal Corporation