



With a light weight collapsible tripod, the entire system can be deployed by one person in less than 30 minutes.

## MilSatCom 1.2 Meter Quick Deploy Antenna System

**A**SC Signal Corporation introduces the 1.2 meter quick deploy antenna system for military applications that require fast and efficient communication deployment without hand tools. This system consists of a manual mount, reflector, tripod, and Ku-band feed.

The reflector is a one piece fiber glass reinforced component. The system is engineered to transmit and receive in the Ku-band frequency. This rugged design operates in winds up to 72 km/h (45 mph) with ballast and survives winds up to 97 km/h (60 mph). With a light weight collapsible tripod, the entire system can be deployed by one person in less than 30 minutes.

The EL/AZ Mount consists of an elevation tube frame and an azimuth plate frame. A quick release bolt allows for easy

attachment of the mount. The total weight for the azimuth and elevation mount is 10.2 kg (22.5 lb). The complete system weighs only 42.6 kg (94 lb).

ASC Signal Corporation's 1.2 meter quick deploy antenna system is available in a Ku-band modular feed configuration. Assembled with two quick release bolts, this interface allows for interchangeability on the reflector and easy replacement in the event a feed is damaged in the field.

- Simple low cost design
- High stiffness, high strength mount
- Light weight aluminum construction
- 30 minute deployment without the use of hand tools
- Major components are field replaceable

## SPECIFICATIONS

### MilSatCom 1.2 Meter Quick Deploy Antenna System

#### Electrical Performance

	Ku-band	
	Receive	Transmit
Frequency (GHz)	10.700-12.750	13.750-14.500
VSWR Performance	1.50:1	1.20:1
Isolation (Typical)	35 dB	110 dB
Insertion Loss	0.6 dB	0.2 dB
Cross Polarization	>30 dB	>30 dB

#### Mechanical Performance

Reflector Diameter	1.2 m (3.9 ft)						
Reflector Construction	Glass Fiber Reinforced Polyester						
Weight without Ballast*	42.6 kg (94 lb)						
Reflector Center Line	1.0 m (3.2 ft)						
Antenna Area Footprint	2.2 m Diameter (7.2 ft)						
Component Weight	<table border="0"> <tr> <td>Reflector</td> <td>15.2 kg (33.5 lb)</td> </tr> <tr> <td>Tripod</td> <td>19.1 kg (42.0 lb)</td> </tr> <tr> <td>Mount/Feed Boom</td> <td>8.4 kg (18.5 lb)</td> </tr> </table>	Reflector	15.2 kg (33.5 lb)	Tripod	19.1 kg (42.0 lb)	Mount/Feed Boom	8.4 kg (18.5 lb)
Reflector	15.2 kg (33.5 lb)						
Tripod	19.1 kg (42.0 lb)						
Mount/Feed Boom	8.4 kg (18.5 lb)						
Elevation Travel	0° to +90°						
Azimuth Travel	±40°						

\* Does not include weight of ballast or feed related components

#### Environmental Performance

Operational Winds	without Ballast	48 km/h (30 mph)
	with Ballast	72 km/h (45 mph)
Survival Winds	with Ballast	97 km/h (60 mph)
Temperature	Operational	-40°C to 60°C (-40°F to 140°C)
	Survival	-50°C to 80°C (-58°F to 175°C)
Rain		Up to 10 cm/h (4 in/h)
Relative Humidity		0% to 100 %
Solar Radiation		360 BTU/h/ft <sup>2</sup> (1135 watts/m <sup>2</sup> )
Altitude	Operational	Up to 10,000 ft
	Survival	Up to 40,000 ft



ASC Signal Corporation  
1120 Jupiter Road, Suite 102  
Plano, TX 75074 USA

Telephone: +1-214-291-7654

Fax: +1-214-291-7655

Internet: [www.ascsignal.com](http://www.ascsignal.com)

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

ASC-MGR17

© 2010 ASC Signal Corporation