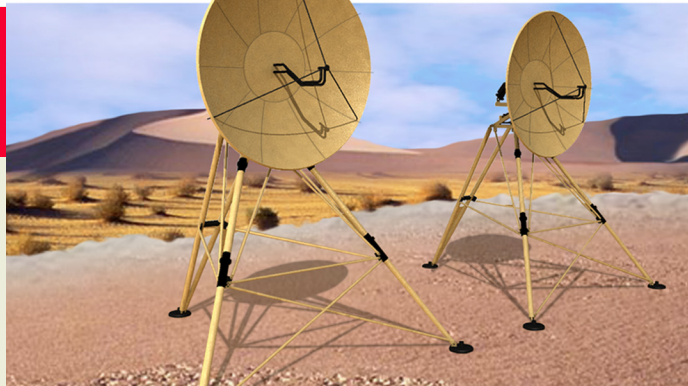


PRODUCT
SPECIFICATIONS

Detail Photo

(on right)

Rear view with military green finish and light weight, aluminum azimuth/elevation mount



The reflector is a two piece fiber glass reinforced component with latches for quick assembly.

2.4 Meter Tactical Troposcatter

The ASC Signal 2.4 m tactical troposcatter is the newest product under development by ASC Signal's MilSatCom division. The entire assembly consists of a motorized mount, reflector, C or Ku feed, and a controller.

The reflector consists of 10 identical and interchangeable petal segments and one center hub. These eleven carbon fiber components, are assembled without the aid of tools using latches that are embedded into the structure. The reflector has a total weight of 36.2 kg (80 lb). An optional imbedded electrical heater is also available with this system for deicing purposes.

Electronically engineered operate in both the C and Ku-band frequencies, Andrew's 2.4 meter tactical troposcatter is capable of transmitting and receiving signals in winds up to 80 mph. With a light weight collapsible mount, the entire configuration can be deployed by two trained individuals within 30 minutes.

Engineered into the support structure is an azimuth/elevation mount frame constructed of light weight aluminum tubing.

Weighing 79.4 kg (175 lb), the Az/El mount offers ease of assembly via 4 quick release pins. The leg assemblies have a total weight of only 300 lb (136 kg) and are assembled with quick release shaft collars.

- Light weight, aluminum and carbon fiber construction
- Maximum stiffness, high strength mount design
- Superior RF Performance
- Field replaceable components
- Identical and interchangeable reflector petals
- 30 minute assembly without tools

SPECIFICATIONS

MilSatCom 2.4 Meter Tactical Troposcatter

Electrical Performance

Frequency	4.4 GHz to 5.0 GHz (C-band) 14.8 GHz to 15.5 GHz (Ku-band)
Gain	38.5 @ 4.40 GHz 39.5 @ 5.00 GHz 48.6 @ 15.00 GHz 48.8 @ 15.25 GHz 49.0 @ 15.50 GHz
Side Lobes	< -25 dB
Power Rating	750 W Continuous
Beam Width 3 dB	2° (C-band) 0.6° (Ku-band)
Polarization	Dual Linear
Cross Polarization	> 30 dB
VSWR	1.35:1 Maximum

Environmental Performance

Operational Winds	No Ballast	25 mph
	with Ballast	80 mph
Survival Winds		125 mph (with Ballast or Anchors)
Temperature	Operational	-40°C to 60°C (-40°F to 140°F)
	Survival	-58°C to 71°C (-50°F to 160°F)
Solar Radiation		360 BTU/h/ft ² (1135 watts/m ²)
Rain		Up to 10 cm/h (4 in/h)
Relative Humidity		0% to 100%
Altitude	Operational	Up to 10,000 ft
	Survival	Up to 40,000 ft

Mechanical Performance

Controller Type	Dual Axis Jog Controller	
Prime Power	110-130, 220-24- VAC 50/60 Hz (Field Configurable)	
Motor (Azimuth and Elevation)	24 VDC	
Angle Transducers	Type 11 Resolvers	
Angle Resolution	Type .01°	
Velocity (Azimuth (Elevation)	Slew TBD°/Sec Jog TBD°/Sec Slew TBD°/Sec Jog TBD°/Sec	
Maximum Travel Limits	Slip Clutch in Jackscrew, with Motion Detect Shutoff	
Operate Limits	Software Settable	
Remote Control Interface	RS232/422 Remote Monitor and Control Port Allows Monitoring and Drive Functions from Customer Supplied Software via Serial Port	
Optional Sensors	Flux Gate Compass for Coarse Azimuth Alignment	
Package	Single Box Controller Includes All Electronics and PWM Motor Controller In a 19 inch 2 Unit Rack Mountable Cabinet	
Temperature	Controller	0° to 50°
	Outdoor Components	-40° to 50°



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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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