



## Series 1182 --- Rx/Tx 1.8M C & Ku- Band Antennas With Fine Adjustment

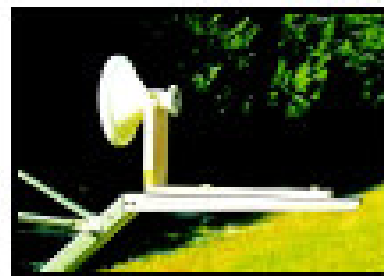


### KEY FEATURES:

- Precision compression molded offset reflector
- Non-penetrating roof mount and king posts available
- Interface kits for all C & Ku-Band RF heads in stock
- Reflector/Feed electrical anti-icing available
- Insat extended C-band available



Back View  
1.8M Rx/Tx



Option  
Ku-Band Feed

General Dynamics SATCOM Technologies is the world's largest manufacturer of Rx/Tx VSAT antennas. We have the broadest product line in the industry including Receive Only Rx/Tx and Rural Telephony antenna systems. General Dynamics SATCOM Technologies offers nineteen antenna sizes, 47cm to 4.5M. General Dynamics SATCOM Technologies is the leader in obtaining type certifications and approvals for Intelsat, AsiaSat and Eutelsat. General Dynamics SATCOM Technologies' antennas provide the best quality in the market due to the sophisticated, precision SMC compression molding process technology.

General Dynamics SATCOM Technologies provides the best value antenna solution to the market with competitive prices, the highest quality products and superb engineering support.

General Dynamics SATCOM Technologies is ISO registered, KEMA # 70022.01.  
*General Dynamics SATCOM Technologies - The Market Leader in VSAT Antennas.*

**GENERAL DYNAMICS**  
SATCOM Technologies



## Series 1182 – Rx/Tx 1.8M C & Ku-Band Antennas With Fine Adjustment

	C-Band Linear	C-Band Circular	Ku-Band
<b>Electrical Performance</b>			
Antenna Size	1.8M (71 in.)	1.8M (71 in.)	1.8M (71 in.)
Frequency (GHz)	Rx 3.625 – 4.2 GHz Tx 5.850 – 6.425 GHz	3.625 – 4.2 GHz 5.850 – 6.425 GHz	10.70 – 12.75 GHz 13.75 – 14.5 GHz
Antenna Gain at Midband, dBi (± .2dB)	Rx 35.5 dBi Tx 39.5 dBi	35.3 dBi 39.3 dBi	44.8 dBi 46.8 dBi
VSWR	1.3:1 Max	1.3:1 Max	1.3:1 Max Tx 1.5:1 max Rx
Pattern Beamwidth (in degrees at midband)			
-3 dB	3.0° Rx 1.9° Tx	3.0° Rx 1.9° Tx	1.0° Rx 0.8° Tx
-15 dB	6.7° Rx 4.3° Tx	6.7° Rx 4.3° Tx	2.2° Rx 1.8° Tx
Sidelobe Performance Co-Pol (dBi)			
100λ/D° ≤ θ ≤ 20°	29 – 25 Log θ dBi	29 – 25 Log θ dBi	29 – 25 Log θ dBi
20° < θ ≤ 26.3°	+8 dBi	+8 dBi	+8 dBi
26.3° < θ ≤ 48°	32 – 25 Log θ dBi	32 – 25 Log θ dBi	32 – 25 Log θ dBi
48° < θ	-10 dBi (averaged)	-10 dBi (averaged)	-10 dBi (averaged)
Antenna Noise Temperature			
10° Elevation	45K	45K	69K
20° Elevation	41K	41K	64K
30° Elevation	41K	41K	63K
40° Elevation	40K	40K	62K
Power Handling	1 kW	1 kW	100 W
Cross Polarization Isolation			
On Axis	30 dB	17.3 dB Tx 15.5 dB Rx	30 dB
Within 1.0 dB Beamwidth	26 dB	17.3 dB Tx 15.5 dB Rx	26 dB
Output Waveguide Interface Flange	WR137 or N Tx WR229 Rx	WR137 or N Tx WR229 Rx	WR75 WR229 Rx
RF Specification			
<b>Mechanical Performance</b>			
Reflector Material	Glass Fiber Reinforced SMC		
Antenna Optics	Prime Focus, One-Piece, Offset Feed		
Mast Pipe Size	3.5" SCH 40 Pipe (4.0" OD) 10.16 cm.		
Elevation Adjustment Range	10° to 80° Continuous Fine Adjustment		
Azimuth Adjustment Range	+/- 10° Fine Adjustment, 360° Continuous		
Mount Type	Elevation over Azimuth		
Shipping Specifications			
Approximate Net Weight	185 lbs.	190 lbs	175 lbs.
<b>Environmental Performance</b>			
Wind Loading			
Operational	45 MPH (72 km/h)		
Survival	125 MPH (201 km/h)		
Temperature Range (operational)	-40° to 140° F (-40° to 60° C)		
Rain (operational)	1/2" (13mm) / hr		
Ice (operational)	-----		
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas		
Relative Humidity	0 to 100% With Condensation		
Solar Radiation	360 BTU/h/ft²		