

3.7m C-Band Rx/Tx Series 1374 Antenna



Key Features

- Precision Compression Molded Prime Focus Axisymmetric Reflector
- Individual Panels Interchangeable and field replaceable
- Fully galvanized steel Az/EI mount
- Reflector Electrical Anti-Icing Available



Back View
Series 1374



Options
C-Band Linear 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.

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PARAMETERS		
Electrical Performance	Linear	Circular
Antenna Size	3.7m (144 in)	3.7m (144 in)
Frequency (GHz)	Rx 3.4 – 4.2 GHz	Rx 3.625 – 4.2 GHz
	Tx 5.850 – 6.725 GHz	Tx 5.850 – 6.425 GHz
Antenna Gain at Midband, dBi (± 0.5 dB)	Rx 40.4 dBi	Rx 40.2 dBi
	Tx 44.0 dBi	Tx 44.0 dBi
VSWR	1.3:1 Maximum	1.3:1 Maximum
Pattern Beamwidth (in degrees at midband)		
-3 dB	Rx 1.4°	Rx 1.4°
	Tx 1.0°	Tx 1.0°
-15 dB	Rx 3.2°	Rx 3.2°
	Tx 2.2°	Tx 2.2°
Sidelobe Performance	ITU-RS-580	
Antenna Noise Temperature		
5° Elevation	55K	58k
10° Elevation	47K	50K
20° Elevation	42K	45K
40° Elevation	40k	43K
Power Handling	500 Watts	500 Watts
Cross Polarization Isolation		
On Axis	> 30 dB	> 17.7 dB
Within 1.0 dB Beamwidth	> 25 dB	> 17.7 dB
Output Waveguide Interface Flange	Rx WR229	Rx WR229
	Tx Type N or WR137	Tx Type N or WR137
RF Specification	N/A	N/A
Mechanical Performance		
Reflector Material	Glass Fiber Reinforced Polyester SMC	
Antenna Optics	8 Pc. Prime Focus, Axisymmetric, f/D = 0.375	
Mast Pipe Size	6" SCH 80 Pipe (6.62" OD) 16.83 cm.	
Elevation Adjustment Range	10° to 70° Continuous Fine Adjustment (90° Optional)	
Azimuth Adjustment Range	360° Continuous	
Shipping Specifications		
Approximate Net Weight	660 lbs. (300 kg.)	
Approximate Packaged Weight	735 lbs. (334 kg.) 77" x 80" x 29"	
Environmental Performance		
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"/Hour	
Ice (operational)	-----	
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	
Relative Humidity	0 to 100% Condensing	
Solar Radiation	360 BTU/h/ft ²	

GENERAL DYNAMICS

SATCOM Technologies

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