

1.8 & 2.4M Dual Axis C or Ku-Band VSAT Antennas

Series 1185 & 1256

Technical Specifications

Electrical	Series 1185		Series 1256	
	C-Band	Ku-Band	C-Band	Ku-Band
Antenna Size	1.8 M (71 in.)		2.4 M (96 in.)	
Operating Frequency (GHz)	Receive Transmit	10.95 - 12.75 14.00 - 14.50	3.625 - 4.20 5.85 - 6.425	10.95 - 12.75 14.00 - 14.50
Midband Gain (+/- .2 dB)	Receive Transmit	45.00 dBi 46.50 dBi	38.00 dBi 42.00 dBi	47.60 dBi 49.20 dBi
Antenna Noise Temperature (linear)				
10° Elevation	56 K	49 K	52 K	42 K
20° Elevation	49 K	38 K	46 K	32 K
30° Elevation	47 K	35 K	45 K	28 K
40° Elevation	46 K	34 K	44 K	27 K
Antenna Noise Temperature (circular)				
10° Elevation	30 K		29 K	
20° Elevation	23 K		22 K	
30° Elevation	21 K		20 K	
40° Elevation	20 K		19 K	
Cross-Pol Isolation (Linear)	>30 dB (on axis)		>30 dB (on axis)	
Sidelobe Envelope, 100λ/D ≤ θ ≤ 20° 7° < θ ≤ 9.2° 9.2° < θ ≤ 48° 48° < θ	29 - 25 Logq dBi -3.5 dBi 32 - 25 Logq dBi -10 dBi (averaged)		29 - 25 Logq dBi -3.5 dBi 32 - 25 Logq dBi -10 dBi (averaged)	
VSWR	1.3:1 Max.		1.3:1 Max.	-30 dB within B.P.E.

Mechanical	
Reflector Material	Glass Fiber Reinforced Polyester SMC
Mount Type	Dual Axis Motorized, Elevation over Azimuth, Galvanized Steel Construction
Elevation Adjustment Range	10° to 80°
Azimuth Adjustment Range	360° Continuous
Angular Tracking Travel	Elevation +/- 10° ; Azimuth +/- 10° (within adjustment range)
Actuators	Recirculating Ballscrews
Interface	Electrically to ACU
Antenna Optics, Prime Focus	One Piece Offset Feed
Tracking Accuracy	0.10°
Mast Pipe Size	3.5" SCH 40 Pipe (4.00" OD) 10.16 cm.
Shipping Specifications	445 lbs. (200 kg.)

Environmental Performance	
Wind Loading	Operational Survival
Temperature	Operational Survival
Rain	Operational Survival
Ice	Operational Survival
Atmospheric Conditions	
Solar Radiation	

GENERAL DYNAMICS SATCOM Technologies

1500 Prodelin Drive • Newton, NC 28658 USA • Telephone: +1-828-464-4141 • Fax: +1-828-464-4147
Email: vsat@gdsatcom.com • Web Site: www.gdsatcom.com

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