1.8 & 2.4 Meter Dual Axis C or Ku-Band VSAT Antenna

Technical Specifications

Electrical	Series 1185		Series 1256	
Liectrical	C-Band	Ku-Band	C-Band	Ku-Band
Antenna Size	1.8M (71 in.)		2.4 M (96 in.)	
Operating Frequency (GHz)				
Receive	3.625 - 4.20 GHz	10.95 - 12.75	3.625 - 4.20	10.95 - 12.75
Transmit	5.85 - 6.425 GHz	14.00 - 14.50	5.85 - 6.425	14.00 - 14.50
Midband Gain (+/2dB)				
Receive	35.50 dBi	45.00 dBi	38.00 dBi	47.60 dBi
Transmit	39.50 dBi	46.50 dBii	42.00 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)	30 K		29 K	
10° Elevation	23 K		22 K	
20° Elevation	21 K		20 K	
30° Elevation	20 K		19 K	
40° Elevation Cross-Pol Isolation (Linear)	> 20 dP (on ovi	2)	> 20 dP (on avia)	
. ,	>30 dB (on axis)		>30 dB (on axis)	
Sidelobe Envelope, Co-Pol (dBi)		D.		
$100\lambda/D \le \theta$ $7^{\circ} < \theta \le 9.2^{\circ}$	29 - 25 Log θ dBi		29 - 25 Log θ dBi	
$7^{\circ} < \theta \le 9.2^{\circ}$ 9.2° < $\theta \le 48^{\circ}$	-3.5 dBi		-3.5 dBi	
9.2 < θ≤ 48 48° < θ	32 - 25 Log θ dBi -10 dBi (averaged)		32 - 25 Log θ dBi -10 dBi (averaged)	
		ed)	¥	
VSWR	1.3:1 max		1.3:1 max	-30 dB within B.P.
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 B	allscrews		
Interface	Electrically to A	VCU		
Antenna Optics, Prime Focus	One Piece Offset Feed		Four Piece Offset Feed	
Tracking Accuracy	0.10°		0.10°	
Mast Pipe Size	3.5" SCH 40 Pipe (4.0" OD) 10.16 cm.			
Shipping Specs. (Approx. Net Wt.)	445 lbs. (200 kg.)		680 lbs. (306 kg.)	
Environmental Performance				
Wind Loading Operational	45 mph (72 km	/h)		
Survival	125 mph (201 km/h)			
Temperature Operational Survival	- 40°to 140°F (- 40°to 60°C) -22° to 160° F (-30° to 71° C)			
Rain Operational Survival	½″ / hr 2″ /hr			
Ice Operational				
Survival	1/2" radial			
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas			
Solar Radiation	360 BTU/h/ft2			



Satcom & Antenna tel **Technologies Division** 1700 NE Cable Drive Conover, NC USA 28613

+1 770-689-2040 +1 888-874-7646 (In North America) +1 619-240-8480 (Outside North America) Customer Care SAT @ op ii common for system design. email CustomerCareSAT@cpii.com web www.cpii.com

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