

3.8 M

C & KU BAND

RX/TX

SERIES 1383



Prodelin Corporation 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. Prodelin offers nineteen antenna sizes, 47cm to 4.5M. Prodelin is the leader in obtaining type certifications and approvals for Intelsat, AsiaSat and Eutelsat. Prodelin antennas provide the best quality in the market due to the sophisticated, precision SMC compression molding process technology. Prodelin provides the best value antenna solution to the market with competitive prices, the highest quality products and superb engineering support. Prodelin is ISO registered, KEMA # 70022.01. *Prodelin - The Market Leader in VSAT Antennas.*



Back View
3.8 M Rx/Tx



Options
C-Band Circular Polarized Feed

Key Features

- C-Band Intelsat F1, H4 and G Type approved: approval # IA031A00 (without LNA) and # IA031AA0 (approved LNA included)
- Intelsat approved LNA kit eliminates costly field testing
- C-Band INSAT & wide-band available
- Precision compression molded four segment offset reflector
- Installation time reduced with improved mount design
- Reduced packaging volume and weight
- Fully galvanized steel Az/EI mount
- Variety of mounts available
- Reflector/Feed electrical Anti-Icing available
- Two axis tracking configuration available

Receive/Transmit

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Electrical		C-Band Linear	C-band Circular	Ku-Band
Antenna Size		3.8M	3.8M	3.8M
Operating Frequency (GHz)	RX	3.4 - 4.2 GHz	3.625 - 4.2 GHz	10.95 - 12.75 GHz
	TX	5.845 - 6.725 GHz	5.845 - 6.425 GHz	13.75 - 14.5 GHz
Midband Gain (±.2dB)	RX	41.8 dB	42.1 dB	51.7 dB
	TX	46.2 dB	46.0 dB	53.2 dB
Antenna Noise Temperature	10° elevation	31 K	28 K	29 K
	20° elevation	25 K	22 K	21 K
	30° elevation	23 K	20 K	20 K
	40° elevation	22 K	19 K	19 K
Sidelobe Envelope, Co-Pol (dBi)	1° ≤ θ ≤ 20°	29-25 Log θ dBi	29-25 Log θ dBi	29-25 Log θ dBi
	20° < θ ≤ 26.3°	-3.5 dBi	-3.5 dBi	-3.5 dBi
	26.3° < θ ≤ 48°	32-25 Log θ dBi	32-25 Log θ dBi	32-25 Log θ dBi
	48° < θ <	-10dBi (averaged)	-10dBi (averaged)	-10dBi (averaged)
Polarization		Linear	Circular	Linear
Feed Interface	RX	CPR 229	CPR 229	WR75 or direct radio
	TX	CPR 137 or Type N	CPR 137 or Type N	mounting
Axial Ratio	RX		1.3 VAR (2.28 dB)	
	TX		1.09 VAR (.75 dB)	
Cross-Pol Isolation		>30 dB (on axis)	>30 dB (on axis)	>30 dB (on axis)
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max.
Type Approved LNA			Prodelin part #7003-005	
G/T with 35° LNA @ 10° elevation angle @ 4.0 GHz			23.9 dB/K	
Mechanical				
Reflector Material		Glass Fiber Reinforced Polyester SMC		
Antenna Optics		4 Piece Prime Focus, Offset Feed		
Mast Pipe Size		10" SCH 40 Pipe (10.75" OD) 27.30 cm.		
Elevation Adjustment Range		12° to 90° (0° to 15° Inverted)		
Azimuth Adjustment Range		360° Continuous, ±35° Fine Adjustment		
Shipping Specifications	Weight	1575 lbs. (715 kg.)		
Environmental Performance				
Wind Loading	Operational		50 mph (80 km/h)	
	Survival		125 mph (201 km/h)	
Temperature	Operational		-40° to 140° F (-40° to 60° C)	
	Survival		-50° to 160° F (-46° to 71° C)	
Atmospheric Conditions			Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	
Solar Radiation			360 BTU/h/ft ²	

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Post Office Box 1639
 101 Eagle Road - Building #7
 Avon, Colorado 81620 USA
 970 748-3094 or tollfree 866 SATCOM1
 Fax 970 748-3096
www.satcomresources.com