

1.8M

C & KU-BAND

RX/TX

SERIES

1183



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  
1.8M Rx/Tx



Option  
Ku-Band Feed

## Key Features

- Precision compression molded offset reflector
- Non penetrating roof mounts 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

Receive/Transmit

Series 1183

1.8M

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Electrical		C-Band		
		Linear	Circular	Ku-Band
Antenna Size		1.8M (71 in.)	1.8M (71 in.)	1.8M (71 in.)
Operating Frequency	Receive	3.625 - 4.2 GHz	3.625 - 4.2 GHz	10.95 - 12.75 GHz
	Transmit	5.850 - 6.425 GHz	5.850 - 6.425 GHz	14.0 - 14.5 GHz
Midband Gain (± .2dB)	Receive	35.5 dBi	35.5 dBi	45.0 dBi
	Transmit	39.5 dBi	39.5 dBi	46.5 dBi
Antenna Noise Temperature				
10° elevation		56 K	30 K	44 K
20° elevation		49 K	23 K	38 K
30° elevation		47 K	21 K	35 K
40° elevation		46 K	20 K	33 K
Sidelobe Envelope, Co-Pol				
Mainbeam $< \theta < 7^\circ$		29-25 Log $\theta$ dBi	29-25 Log $\theta$ dBi	29-25 Log $\theta$ dBi
$7^\circ < \theta < 9.2^\circ$		+8 dBi	+8 dBi	+8 dBi
$9.2^\circ < \theta < 48^\circ$		32-25 Log $\theta$ dBi	32-25 Log $\theta$ dBi	32-25 Log $\theta$ dBi
$48^\circ < \theta < 180^\circ$		-10dBi (averaged)	-10dBi (averaged)	-10dBi (averaged)
Cross-Polarization (Linear)		>30 dB on axis	N/A	>30 dB on axis
Axial Ratio (Circular)	Receive	N/A	2.28	N/A
	Transmit	N/A	1.60	N/A
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max.
Feed Interface	Receive	CPR 229 F	CPR 229 F	Available in a variety of designs
	Transmit	CPR 137 or Type N	CPR 137 or Type N	Available in a variety of designs
<b>Mechanical</b>				
Reflector Material		Glass Fiber Reinforced Polyester SMC		
Antenna Optics		Prime Focus, One-Piece Offset Feed		
Mast Pipe Size		3.5" SCH 40 Pipe (4.00" OD) 10.16 cm.		
Elevation Adjustment Range		5° to 90°, Continuous Fine Adjustment		
Azimuth Adjustment Range		360° Continuous		
Mount Type		Elevation over Azimuth		
Shipping Specifications		175 lbs.		160lbs.
<b>Environmental Performance</b>				
Wind Loading	Operational	45 mph (72 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)		
Rain	Operational	1/2" /hr		
	Survival	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/ft <sup>2</sup>		



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