

2.4M

C & KU-BAND

RX/TX

SERIES

1244



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
2.4M Rx/Tx



Option
C-Band Circular Polarized Feed

Key Features

- Ku-Band Intelsat approval # IA041A00 for E1, K3, K2 & G
- C-Band Intelsat approval # IA042A00 for circular, H3 H2 and G
- Ku-Band AsiaSat approved
- Ku-Band ETSI certified
- Ku-Band EutelSat approved
- Four piece compression molded offset reflector
- Two axis tracking configuration available
- Low cost shipping & easy local handling
- Reflector/Feed Anti-Icing Available
- Variety of ground mounts available

Receive/Transmit

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Electrical		C-Band		
		Linear	Circular	Ku-Band
Antenna Size		2.4 M (8 ft.)	2.4 M (8 ft.)	2.4 M (8 ft.)
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 ($\pm .2$ dB)	Receive	38.0 dBi	38.0 dBi	47.6 dBi
	Transmit	42.0 dBi	42.0 dBi	49.2 dBi
Antenna Noise Temperature	20° elevation	46 K	23 K	32 K
	30° elevation	45 K	20 K	28 K
Sidelobe Envelope, Co-Pol (dBi)	$100\lambda / D \theta \leq 20^\circ$	29-25 Log θ dBi	29-25 Log θ dBi	29-25 Log θ dBi
	$20^\circ < \theta \leq 26.3^\circ$	- 3.5 dBi	- 3.5 dBi	- 3.5 dBi
	$26.3^\circ < \theta \leq 48^\circ$	32 -25 Log θ dBi	32 -25 Log θ dBi	32 -25 Log θ dBi
	$\theta > 48^\circ$	-10dBi (averaged)	-10dBi (averaged)	-10dBi (averaged)
Cross-Polarization		-30 dB on axis	N/A	-30 dB within B.P.E.
Axial Ratio	Receive	N/A	1.3 VAR (2.28 dB)	N/A
	Transmit	N/A	1.3 VAR (2.28 dB)	N/A
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max.
Mechanical				
Reflector Material		Glass Fiber Reinforced Polyester SMC		
Antenna Optics		Four Piece, Prime Focus, Offset Feed		
Mast Pipe Size		6" SCH 40 Pipe (6.62" OD) 16.80 cm.		
Elevation Adjustment Range		5° to 90° Continuous Fine Adjustment		
Azimuth Adjustment Range		$\pm 30^\circ$ Fine, 360° Continuous		
Mount Type		Elevation over Azimuth		
Shipping Specifications		484 lbs. (218 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)		
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 ²		



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