

2.4M

C & KU-BAND

RX/TX

SERIES

1251



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
Ku-Band Feed

Key Features

- Two piece compression molded offset reflector
- C-Band Intelsat approved # IA022A00
- Installation time reduced with improved mount design
- Ships easily in standard air freight containers
- Non penetrating roof mounts and king post available
- Interface kits for all C & Ku-Band RF heads in stock
- Insat extended C-Band available
- Two axis tracking configuration available
- Reflector/Feed electrical anti-icing available

Receive/Transmit

Series 1251

2.4M

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Electrical

C-Band

Linear

Circular

Ku-Band

Antenna Size		2.4 M (96 in.)	2.4 M (96 in.)	2.4 M (96 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	13.75 - 14.5 GHz
Midband Gain (± .2dB)	Receive	38.0 dBi	38.0 dBi	47.6 dBi
	Transmit	42.0 dBi	42.0 dBi	49.2 dBi
Antenna Noise Temperature				
10° elevation		52 K	30 K	42 K
20° elevation		46 K	23 K	32 K
30° elevation		45 K	20 K	28 K
40° elevation		44 K	19 K	27 K
Sidelobe Envelope, Co-Pol (dBi)				
100λ / D 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
θ > 48°		-10 dBi (averaged)	-10 dBi (averaged)	-10 dBi (averaged)
Cross-Pol Isolation (Linear)		>30 dB on axis	N/A	>30 dB on axis
Axial Ratio (Circular)	Receive	N/A	2.28	N/A
	Transmit	N/A	1.94	N/A
VSWR		1.3:1 Max.	1.3:1 Max.	1.3:1 Max.
Feed Interface	Receive	CPR 229 F	CPR 229 F	WR 75
	Transmit	CPR 137 or Type N	CPR 137 or Type N	WR 75 or Direct Radio Mounting

Mechanical

Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	Prime Focus, Offset Feed, Two-Piece Divided Along Major Axis
Mast Pipe Size	6" SCH 40 Pipe (6.63" OD) 16.83 cm.
Elevation Adjustment Range	5° to 90°, Continuous Fine Adjustment
Azimuth Adjustment Range	± 45° Fine Adjustment, 360° Continuous
Mount Type	Elevation over Azimuth
Shipping Specifications	385 lbs. (174 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/ft²



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