

.95 M

KU-BAND

RX/TX AND

RECEIVE ONLY

SERIES

1951 & 1950



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
Series 1950



Back View
Series 1951

Key Features

- Unique elliptical design
- Precision compression molded offset reflector
- Fully galvanized steel mount for Series 1951
- Gray finish steel mount for Series 1950
- Optional non-penetrating mast mount available

Receive/Transmit
Series 1951
Receive Only
Series 1950

**.95 M
KU-BAND
RX/TX AND
RECEIVE ONLY
SERIES
1951 & 1950**

Electrical		Rx/O Series 1950 Ku-Band	Rx/Tx Series 1951 Ku-Band
Antenna Size		95 CM (38 in.)	95 CM (38 in.)
Reflector Dimensions		53.0" x 26.5" Ellipse	53.0" x 26.5" Ellipse
Operating Frequency	Receive	10.95 - 12.75 GHz	10.95 - 12.75 GHz
	Transmit	NA	13.75 - 14.5 GHz
Midband Gain (±.5dB)	Receive	39.7 dBi	39.7 dBi
	Transmit	NA	41.2 dBi
First Sidelobe (typical)		- 23 dB	- 23 dB
Antenna Noise Temperature			
	20° elevation	43 K	43 K
	30° elevation	41 K	41 K
Sidelobe Envelope, Co-Pol (dBi)			
	1° ≤ θ ≤ 20°	29-25 Log θ dBi	29-25 Log θ dBi
	20° < θ ≤ 26.3°	- 3.5 dBi	- 3.5 dBi
	26.3° < θ ≤ 48°	32 -25 Log θ dBi	32 -25 Log θ dBi
	θ > 48°	-10 dBi (averaged)	-10 dBi (averaged)
Cross-Pol Isolation (Linear)		>30 dB on axis	>30 dB on axis
VSWR		1.3:1 Max.	1.3:1 Max.
Feed Interface		Rectangular WR75	Available in a variety of designs
Mechanical			
Reflector Material		One Pc. Glass Fiber Reinforced Polyester SMC	
Antenna Optics		Prime Focus, Offset Feed Elliptical	Prime Focus, Offset Feed Elliptical
Mast Pipe Size		1.5" SCH 40 Pipe (1.90" OD) 4.83 cm	2.5" SCH 40 Pipe (2.88" OD) 7.32 cm
Elevation Adjustment Range		5° to 80°, Continuous Fine Adjustment	20° to 60° latitude any 80 hour angle segment
Azimuth Adjustment Range		360° Continuous	360° Continuous
Mount Type		Elevation over azimuth w/ incremental reflector polarization	X-Y (Polar) Mount
Shipping Specifications		45 lbs. (20 kg.)	62 lbs. (28 kg.)
Environmental Performance			
Wind Loading	Operational	45 mph (72 km/h)	50 mph (80 km/h)
	Survival	125 mph (201 km/h)	125 mph (201 km/h)
Temperature	Operational	-40° to 140° F (-40° to 60° C)	-40° to 140° F (-40° to 60° C)
	Survival	-50° to 160° F (-46° to 71° C)	-50° to 160° F (-46° to 71° C)
Rain	Operational	1/2" /hr	1/2" /hr
	Survival	2" /hr	2" /hr
Ice	Operational	-----	-----
	Survival	1/2" radial	1/2" radial
Atmospheric Conditions		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	
Solar Radiation		360 BTU/h/ft ²	360 BTU/h/ft ²



1700 NE Cable Drive • Conover, NC 28613 USA
Tel: (828) 464-4141 • Fax: (828) 466-0860
www.prodelin.com

© Copyright 2000 Prodelin, a TriPoint Global Company.
All product specifications subject to change without notice.
The Prodelin logo is a trademark of TriPoint Global.