

2.4M & 3.8M

C & KU-BAND

RX/TX

DUAL OPTICS

SERIES 1254

& 1388



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 1254



Option
Ku-Band Feed

Key Features

- 2.4M C-Band AsiaSat approved
- 3.8M Ku-Band Intelsat approved standard E-2
- 3.8M Ku-Band AsiaSat approved
- Precision compression molded offset reflector
- Reflector Anti-Icing Available
- Variety of ground mounts available

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Electrical		Series 1254	Series 1388
Antenna Size		2.4M (96 in.)	3.8M (12.5 ft.)
Operating Frequency (GHz)	Rx	3.625 - 4.2	10.95 - 12.75
	Tx	5.845 - 6.425	13.75 - 14.5
Midband Gain (+ .2dB)	Rx	38.0 dBi	51.3 dBi
	Tx	42.0 dBi	52.4 dBi
*Antenna Noise Temperature (normal)			
	10° elevation	42 K	39 K
	20° elevation	36 K	36 K
	30° elevation	35 K	34 K
	40° elevation	34 K	32 K
Sidelobe Envelope, Co-Pol (dBi)			
	100λ /D 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
	48° < θ	-10dBi (averaged)	-10dBi (averaged)
Feed Interface	Rx	CPR 229 F	WR 75
	Tx	CPR 137 or Type N	WR 75 or Direct Radio Mounting
Cross-Pol Isolation (Linear)		35dB within 1 dB Beamwidth	35dB within 1 dB Beamwidth
VSWR		1.3:1 Max.	1.3:1 Max.
Mechanical			
Reflector Material		Glass Fiber Reinforced Polyester LPMC	
Antenna Optics		2 Pc. , Offset Fed (Gregorian)	4 Pc. , Offset Fed (Gregorian)
Mount Type		Elevation over Azimuth	
Mast Pipe Size		6" SCH 40 Pipe (6.63" OD) 16.83 mm.	10" SCH 40 Pipe (10.75" OD) 27.30 mm.
Elevation Adjustment Range		5° to 90° Continuous Fine Adjustment	12° to 90° Continuous Fine Adjustment
Azimuth Adjustment Range		+ 45° Fine, 360° Continuous	+ 45° Fine, 360° Continuous
Shipping Specifications	Weight	385 lbs. (174 kg.)	1675 lbs. (765 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	

* Typical noise temperature for outdoor environment



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