

MODEL

1.2-METER QD

QUICK DEPLOY

C, X, KU-BAND

ANTENNA



The VertexRSI lightweight 1.2-Meter (48-inch) Quick Deploy antennas are designed for worldwide transmit and receive operation in C, X, and Ku-Band. These portable antennas consist of Precision Compression Molded reflectors and stainless steel tripod base mounts. This results in a low-weight antenna with superior stiffness and high performance under wind loading conditions.

The unique shape and the accurate reflector surface provide good sidelobe

and cross-polarization performance. Repeatability is maintained with precision registration of the two reflector segments and the feed support structure.

The antenna system, formerly produced by Prodelin Corporation as a Series 1139, includes an SMC compression molded reflector assembly.

The complete 1.2-Meter antenna system, including a single feed, is packaged in three portable cases.

Key Features

- Precision Compression Molded Two-Segment Offset Reflector
- Tripod Base Mount
- Transport Cases Included
- Less than 20-Minute Setup
- RF Package Interfaces Available
- Captured Hardware/Fasteners
- AsiaSat Approval (Ku-Band)

Antenna Products

MODEL 1.2-METER QD QUICK DEPLOY C, X, KU-BAND ANTENNA	Electrical	C-Band		Ku-Band		X-Band	
		Receive	Transmit	Receive	Transmit	Receive	Transmit
	Frequency (GHz)	3.625- 4.200	5.850- 6.435	10.95- 12.75	13.75- 14.50	7.25- 7.75	7.90- 8.40
	Antenna Gain at midband, dBi	32.0	35.8	41.6	43.2	37.7	38.3
	3 dB Beamwidth	4.3°	2.8°	1.5°	1.3°	2.3°	2.1°
	Sidelobe Compliant with	IESS 601 STD G		IESS 601 STD G		DSCS Requirements	
	Axial Ratio (Optional)	2.28 dB	1.94 dB	----	----	1.0 dB	1.0 dB
	VSWR	1.3:1 Max		1.3:1 Max		1.25:1 Max	
	Cross Polarization (linear)	>30 dB on axis		>30 dB in Beam Pointing Error			
	Mechanical						
Reflector Material	Two Piece Composite Reinforced Materials (SMC)						
Antenna Optics	Prime Focus, Offset Feed						
Elevation Adjustment Range	0° to 90°						
Azimuth Adjustment Range	±30° Continuous						
Shipping Specifications	Size		Weight				
Reflector Petals	1 @ 55.0" x 11.0" x 26.0"		72 lbs. (32.6 kg.)				
Positioner and Tripod	1 @ 48.5" x 14.5" x 10.5"		80 lbs. (36.3 kg.)				
Multi-Band Feeds w/Filters*	1 @ 42.0" x 22.0" x 20.0"		86 lbs. (39.0 kg.)				
Total Weight			238 lbs. (107.9 kg.)				
Environmental							
Wind Loading	25 mph (40 km/h) Operational (No Ballast or Anchors) 45 mph (72 km/h) Operational (With Ballast or Anchors) 90 mph (145 km/h) Survival (With Ballast or Anchors)						
Temperature	-40° to 140° F (-40° to 60° C)						
Atmospheric Conditions	Salt, Pollutants, and Contaminants as Encountered in Coastal and Industrial Areas						
Solar Radiation	360 BTU/h/ft² (1000 Kcal/h/m)²						

*Available in Single Frequency Bank (packaged in reflector case)



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