

# Satellite Earth Station Antennas

## Prodelin 4.5M C/Ku-Band Prime Focus Rx Antenna



### Features

- Precision Compression Molded Centerfed Reflector
- Low Transportation Cost with Eight Panel Reflector
- Individual Panels Interchangeable and Field Replaceable
- Fully Galvanized Steel Mounts
- Az/EI or Declination Corrected Polar Mounts
- Optional Galvanized King Post Available

### Summary

The Prodelin 4.5 Meter is a precise, quality, state-of-the-art C or Ku-Band Receive-Only Antenna. It features a variety of mounts and a glass fiber reinforced galvanized reflector which is powder coated for superior protection against the elements.

The 4.5 Meter Receive-Only reflector consists of 8 draw die formed contoured petals with matched radial beams. This straightforward construction approach requires no field alignment, significantly reducing installation time and cost. The Prodelin 4.5 Meter Prime Focus is one of the highest performance antennas in the industry due to its sophisticated, precision SMC compression molding process technology.

ATCi provides the best value antenna solutions to market with competitive pricing, highest quality products and unmatched engineering support.

### Applications

- Broadcasting
- Cable TV & Radio
- Corporate Business
- Government & Military
- Educational Institutions

# Specifications: 4.5 Meter C/Ku-Band Prime Focus Rx Antenna

<b>ELECTRICAL</b>	<b>Series 1451</b>	<b>Ku-Band</b>
Antenna Size	4.5 M (15 ft.)	4.5 M (15 ft.)
Operating Frequency	3.625 - 4.2	10.95 - 12.75
Midband Gain (+/- .5 dB)	42.9 dBi	52.6 dBi
Polarization	Linear	Linear
3 dB Beamwidth	1.2°	.42°
Feed Interface	CPR 229	WR 75
First Sidelobe (Typical)	-20 dB	-20 dB
Cross-Pol Isolation	>30 dB (on axis)	>30 dB (on axis)
VSWR	1.3:1 Max.	1.3:1 Max
<b>MECHANICAL</b>		
Reflector Material	Glass Fiber Reinforced Polyester SMC	
Antenna Optics	Prime Focus, 8 Piece Axisymmetric	
Mast Pipe Size	10" SCH 40 Pipe (10.75" OD) 27.30 cm.	
Elevation Adjustment Range	5° to 90° Continuous Fine Adjustment (90° Optional)	
Azimuth Adjustment Range	360° Continuous	
Shipping Specifications	Weight: 950 lbs. (428 kg.)	
<b>ENVIRONMENTAL PERFORMANCE</b>		
Wind Loading	45 mph (72 km/h)	
Operational	125 mph (201 km/h)	
Survival		
Temperature	-40° to 140° F (-40 to 60° C)	
Operational	-50° to 160° F (-46° to 71° C)	
Survival		
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas.	
Solar Radiation	360 BTU/h/ft <sup>2</sup>	