

## China Starwin 7.5M Rx Only Antenna Datasheet



7.5m Rx Only Manual Antenna Photo for Reference

### General Description

China Starwin 7.5m Rx Only antenna is made of high accuracy stretch-formed aluminum panel with stable structure. Rx Only antenna systems with satisfactory performance of high gain, low side lobe and reliable operation, easy to operate and maintenance.

### Options

- High Accuracy Stretch-formed Aluminum Panel
- Meet data receive and TV receive requirement
- C-band, Ku-band, ka-band, S-band, L-band frequency as option
- Linear or Circular Polarized feed system as option
- Single/Dual Polarization as option
- Manual/Motorized as option
- High Erosion Resistance
- Assembled and tested feed system before leaving factory

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## Technical Specifications

### 7.5meter C-band Rx Only Antenna Technical Specifications

Electrical Specifications	C Band Rx	Ku Band Rx
Operating Frequency, GHz	3.7- 4.2 GHz	10.95-12.75 GHz
Gain, Mid-Band, dBi	$\geq 48.0 + 20\lg(f/3.95)$	$\geq 57.99 + 20\lg(f/12.5)$
VSWR	$\leq 1.30:1$	$\leq 1.30:1$
Beam Width, -3dB	$\leq 0.65^\circ$	$\leq 0.21^\circ$
Noise Temperature, K, 20° EI	$\leq 41$	$\leq 55$
Feed Interface	CPR-229G	WR-75
Polarization	Linear/Circular	Linear
Cross-Pol Isolation, Axial	$\geq 25$	$\geq 27$
Axial Ratio	$\leq 3.0$	N/A
First Side lobe	$\leq -14\text{dB}$	
Side lobe Envelop	$52 - 10\lg(D/\lambda) - 25\lg e \quad (100\lambda/e)^\circ \leq e \leq 20^\circ$	$32 - 25\lg e \quad 1^\circ \leq e \leq 20^\circ$
<b>Environmental Specification</b>		
Wind Loading Operational	20.8m/s	
Wind Loading	35m/s	
Wind Loading Survival	55m/s	
Temperature Operational	$-20^\circ\text{C} \sim +55^\circ\text{C}$	
Humidity	5%-95%	
<b>Mechanical Specification</b>		
Antenna Type	Cass grain	
King Post Type	Truss Type	
Drive Mode	Auto	
Azimuth Range	$\pm 85^\circ$	
Elevation Range	5-90°	
Polarization Range	$\pm 90^\circ$	
<b>Technology</b>		
<p>After panel pressing molding, first remove oil, and spraying zinc, Yellow primer, and White coating.</p> <p>Advanced abrasive blasting and zinc treatment for steel structure, and spraying zinc, Yellow primer, and White coating.</p>		