

## China Starwin 2.4m Rx Only Antenna



### General Description

China Starwin can supply satellite receive only antenna, and can receive TV signal, China Starwin RXO antenna is made of high accuracy stretch-formed aluminum panel with stable structure. The RXO 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 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

**China Starwin Science&Technology Co., Ltd.**

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### Specification for 2.4 m Rx antenna

<b>Electrical Specification</b>		
Type	2.4m Rx only antenna	
Operating Frequency, GHz	C-Band	Ku-band
	Receive	Receive
	3.4~4.2	10.95~12.75
Gain, Mid-band, dBi	$37.3+20\lg(f/3.95)$	$47.79+20\lg(f/12.5)$
Beam Width, -3dB	$\leq 2.24^\circ$	$\leq 0.69^\circ$
Noise Temperature, (K, 20°E1)	$\leq 47$	$\leq 55$
Polarization	Linear/Circular	Linear
VSWR	1.3	1.3
Cross Polarization Isolation	$>23\text{dB}$	$>27\text{dB}$
Axis Ratio	$<3.0$	$<3.0$
Feed Interface	CPR -229F	WR-75
Side Lobe Level	$52-10\lg(D/\lambda)-25\lg(\theta)$ $(100\lambda/D)^\circ \leq \theta \leq 20^\circ$	
First side lobe	$\leq -14\text{dB}$	
<b>Mechanical Specification</b>		
Antenna Diameter	2.4m	
Antenna Type	Prime Focus	
Surface Accuracy (RMS)	$\leq 0.5\text{mm}$	
Antenna Pointing Range	Azimuth	0-360°
	Elevation	5°~90°(Continuous)
	Polarization	$\pm 90^\circ$ (Continuous)
Drive Mode	Manual & motorized	
Motor drive system	Azimuth Travel Rate	0.20°/S (0.04°/s)
	Elevation Travel Rate	1°/S
<b>Environmental Specification</b>		
Operational Wind	80km/h gusting to 126km/h	
Survival Wind	198km/h	
Temperature	$-20^\circ \sim +55^\circ$	
Relative Humidity	5-95%	

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Solar Radiation	1135Kcal/h/m <sup>2</sup>
Seismic (Survival)	0.3g(H), 0.15g(V)
Ice Loading	13mm Operational; 25mm Survival
<b>Technology</b>	
After panel pressing molding, First remove oil, and spraying zinc, Yellow primer, and White coating. Advanced abrasive blasting and zinc treatment for steel structure, and spraying zinc, Yellow primer, and White coating.	