



**Antesky Science Technology Inc.**

Add: Zhongtian International Mansion, No.269 Taibai South Road Xi'an China

Tel: +86-29-88352448 Fax: 86-29-88352334 Email [sales@antesky.com](mailto:sales@antesky.com)

---

## 13M Rx Only Antenna

Antesky Science Technology Inc. is a professional supplier for all kinds of earth station Tx/Rx and Rx antennas. These antennas have the features of superior performance with the diameter range from 1.2m to 16m. The reflector panel is made of aluminum with high precision. We can also supply C&Ku dual bands above 7.3m Rx antenna. Antesky can also customize the big antenna based on the customer's specific requirements. Hope to serve for the users all over the world.





### ELECTRICAL SPECIFICATION

Diameter	13.0M	
Operating Frequency, GHz	C-Band	Ku-Band
	Receive	Receive
	3.625~4.2	10.95~12.75
Gain, Mid-band, dBi	53.17	62.28
VSWR	1.35:1	1.35:1
Beam Width:-3dB	0.37	0.12
Polarization	Linear/ Circular	Linear
Axis Ratio for circular Pol.	0.5dB	
Noise Temperature ( ° K ) 2 port feed 10°EL	50	70
Feed Interface	CPR-229G	WR-75
Feed Insertion Loss(dB)	0.37	0.12
Port Isolation	Isolation between ports for Linear Pol. $\geq 30$ dB Isolation between ports for circular Pol. $\geq 20$ dB	
XPD (on Axis), dB for LP	35	35
XPD across 1dB Beam Width, dB for LP	33	33
Radiation Pattern:First Sidelobe	CCIR.580-4	

### MECHANICAL SPECIFICATION

Antenna Type	Ring Focus Antenna
Antenna Pedestal Type	Kingpost Pedestal
Finishes Reflector Surface Pedestal & Back Structure	Aluminum panels with high-diffusing white paint Hot dipped Galvanized
Surface Accuracy (RMS)	$\leq 0.35$ mm
Azimuth	$\pm 85^\circ$
Elevation	$0^\circ \sim 90^\circ$
Antenna Drive	Motorized drive

### ENVIRONMENTAL SPECIFICATION

Operational Wind	45mi/h ( 72km/h ) to 60mi/h ( 97Km/h )
Survival Wind	125mi/h ( 200Km/h )
Temperature	- 40°C ~ + 60°C
Relative Humidity	100%
Solar Radiation	1135Kcal/ h/ m <sup>2</sup>



## Antesky Science Technology Inc.

Add: Zhongtian International Mansion, No.269 Taibai South Road Xi'an China

Tel: +86-29-88352448 Fax: 86-29-88352334 Email [sales@antesky.com](mailto:sales@antesky.com)

Seismic (Survival)	0.3g (H), 0.15g (V)
Snow	30mm
Ice	25mm