

16M EARTH STATION ANTENNAS

ANTESKY has a selected range of VSAT antenna (Ku-Band, C-Band, Ka-Band), NWIEE antenna, Earth Station Antenna Control System and Tracking Systems.



ANTESKY have developed Satellite communication earth stations 16m antennas C/ku band antenna with high performance in reception or in satellite communication reception/transmission. This type of antenna is in compliance with FCC 81-704 and 2° between two satellites in international satellite organization rules.

Optional:

2-port, 3-port, 4- port T/R liner polarization and/or circular polarization;

Manual or motor-driven azimuth, elevation and polarization system with control and readouts.

ELECTRICAL SPECIFICATION

Type	ATSK-1600C		ATSK-1600K	
	C-Band		Ku-Band	
Operating Frequency, GHz	Receive	Transmit	Receive	Transmit
	3.625~4.2	5.85~6.425	10.95~12.75	14.0~14.5
Gain, Mid-band, dBi	54.4	57.8	63.6	64.9
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, dB	33	33	33	33
Axial Ratio (dB)	0.5	0.5		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature, 2/4-port feed				
10° Elevation	35°K/40°K		60°K/66°K	
20° Elevation	27°K/34°K		50°K/56°K	
40° Elevation	24°K/30°K		44°K/50°K	
-3dB Beam Width	0.33°	0.22°	0.11°	0.09°
Tx. Power Capability, KW		5		1
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss, dB	0.15/0.2	0.2	0.4/0.45	0.4
Isolation, Tx to Rx, dB	85	85		
Radiation Pattern:First Sidelobe	≤-14, Meet ITU-RS.580-5 and other requirements			

MECHANICAL SPECIFICATION

Azimuth	±90° (Continuous)
Elevation	0°~90°(Continuous)
Polarization	180°(Continuous)
Finishes	
Reflector Surface	Aluminum panels with high-diffusing white paint
Pedestal & Back Structure	Thermal Spraying Zinc
Surface Accuracy (RMS)	≤ 0.5mm

ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	216km/h
Temperature	- 40°C ~ + 60°C
Relative Humidity	100%
Solar Radiation	1135Kcal/ h/ m ²
Seismic (Survival)	0.3g (H), 0.15g (V)