

## ANTESKY 6.2M EARTH STATION ANTENNAS

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



### Antenna Accessory

- *Motorization Kits*
- *50 Satellite Positions Preset*
- *Limit Switches*
- *Steptrack*
- *ODU Support Kits*
- *Factory Feed System Testing and Documentation*
- *Ocean Transport Packing*
- *Foundation Kit*
- *Lightening Rod Kit*
- *Grounding Kit*
- *Cable-Mounting Kit*
- *Major Subsystem Spare Part Kits*
- *Anti-icing and Deicing*

### Features

- *Meets or Exceeds CCIR 580 and INTELSAT Requirements*
- *High G/T, Excellent Pattern Characteristics*
- *Thermal Spaying Zinc Steel Ground Mount Assembly*
- *C-band Antenna Operating in 800MHz Bandwidth Option*
- *2-port, 3-port or 4-port Linear/Circular Feed*
- *Field Changeable Feed System, Switchable Circular to Linear C-band*
- *Antenna Az 0-360deg Continuous Pointing Range*

## ELECTRICAL SPECIFICATION

Diameter	6.2M			
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.625~4.2	5.85~6.425	10.95~12.75	13.75~14.5
Gain, Mid-band, dBi	46.8	50.2	56.18	57.11
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)	1.30/1.06	1.09/1.06		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature, 2/4-port feed				
10° Elevation	35°K/42°K		63°K/67°K	
20° Elevation	26°K/36°K		51°K/58°K	
40° Elevation	24°K/33°K		49°K/52°K	
-3dB Beam Width	0.81°	0.53°	0.27°	0.23°
Tx. Power Capability, KW		5		1
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss, dB	0.25	0.2	0.25	0.25
Isolation, Tx to Rx, dB	85			
Radiation Pattern:First Sidelobe	$\leq -14$ , Meet ITU-RS.580-4			

## MECHANICAL SPECIFICATION

Azimuth	$\pm 90^\circ$ (Continuous)
Elevation	$0^\circ \sim 90^\circ$ (Continuous)
Polarization	$90^\circ$ (Continuous)
Finishes	
Reflector Surface	Aluminum panels with high-diffusing white paint
Pedestal & Back Structure	Hot-dipped Galvanized
Surface Accuracy (RMS)	$\leq 0.5\text{mm}$

## ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	216km/h
Temperature	$-40^\circ\text{C} \sim +60^\circ\text{C}$
Relative Humidity	100%
Solar Radiation	$1135\text{Kcal/h/m}^2$
Seismic (Survival)	0.3g (H), 0.15g (V)