

1.8M Ku band Carbon Fiber SNG antenna



Applications

- Sudden public events and all kinds of disasters on-site information gathering Disaster relief.
- Public security, military, government, oil, water conservancy, electricity, finance and other important sectors of the country
- The remote areas and the vast rural areas out of coverage.
- Field operations, exploration, military police and news media.

Highlight Features

- Carbon fiber reflector with light weight, high strength and accuracy and R.M.S<0.3mm;
- Vehicle-Mount SNG antennas, support C, X, Ku and Ka band;
- One button acquisition satellite;
- Satellite lock in 3 minutes;
- The products can be used at such industries as broadcast & media, emergency & public safety, oil and gas etc.

Components

- Single Offset Antenna
- Azimuth & elevation turntable
- One button acquisition control system

Technical Specification

ELECTRICAL SPECIFICATIONS				
Type	SCA180EKL2X			
Operation Frequency(GHz)	KU band		C band	
	Receive	Transmit	Receive	Transmit
	10.7-12.75	13.75-14.5	3.4-4.2	5.85-6.725
Typical Gain(dBi)	44.8@12GHz	46.2@14GHz	35.7@4GHz	39.2@6GHz
Polarization	Linear		Linear/Circular	
XPD on Axis,dB(Linear)	33dB		33dB	
Axis Ratio, dB (Circular)	/		2	0.75
Power Handling Capability	/	400W	/	500W
Feed Interface	WR75	WR75	CPR229	CPR137
Tx/Rx Isolation	80dB			
Radiation pattern compliance	ITU-R.S580-5			
MECHANICAL SPECIFICATIONS				
Antenna diameter	1.8m			
Antenna type	Single Offset			
Reflector material	Carbon fiber			
Power supply	100~240VAC, 50/60Hz			
Pointing satellite	Beacon			
Pointing accuracy	0.3dB (R.M.S)			
Antenna Direction	GPS/BD			
Satellite capture time	≤ 3min			
Travel range	Azimuth	± 200°		
	Elevation	10°~90°		
	Polarization	± 90°		
Rotate speed	Azimuth	0.1°~3° /S		
	Elevation	0.1°~3° /S		
	Polarization	1° /S		
Power consumption	800W (without BUC, no wind)			
Operational wind load	20m/s			
Work wind load	30m/s			
Stowed wind load	45m/s			
Operate Temperature	-40℃ ~ +55℃			
Storage Temperature	-50℃ ~ 70℃			
Humidity	0-95%(20℃)			