AST®

ALL-SEEING TECHNOLOGY CO., LTD

1.8M C/KU Band Motorized Vehicle Mount Antenna

Feature

* Meet with requirement of CCIR580 and INTELSAT
* High G/T, excellent pattern characteristics
* Auto- deploy and auto-stow “Smart switch” to complete auto positing, deploy and satellite acquisition.
* Antenna deploys and acquires satellite within 3 minutes
* Friendly interface and easy operation
* Tracking accuracy is better than 1/10 of received 3dB beam width
* Offset parabolic antenna of carbon fiber, featuring in light weight
* Three modes control: Auto, motorized and manual
* Motorized polarization adjustment

System Configuration

* 1.8meter offset antenna
* Auto Control System
* Az, El and Pol three-axis turnable
* GPS, Electrical compass
* High sensitivity beacon receiver
* A-E Rotary Joint
* Step Motor
* Motor Polarization Adjustment

Email: sales@allseeingtech.com
WEB: www.allseeingtech.com

Tel: (+86)29-8886-0263
Cell:(+86)177-2929-5262

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ELECTRICAL SPECIFICATION				
Type	PS180A-EC		PS180A-KU	
Operating Frequency, GHz	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
	3.4-4.2	5.85-6.725	10.95-12.75	13.75-14.5
Gain, Mid-band, dBi	35.5	39.5	45	46.5
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature 10° Elevation 30° Elevation 50° Elevation	 39° K 29°K 26°K		 43° K 36°K 32°K	
-3dB Beam Width, Mid-band	2.88°	1.9°		
Tx. Power Capability, KW		5		1
Feed Interface	CPR229G	CPR-137G	WR75	WR75
Isolation, Tx to Rx, dB	90			
First Sidelobe 90% Peaks under Following Envelop	-14 29-25logθ(1°≤θ < 20°)		-14 29-25logθ (1°≤θ < 20°)	
MECHANICAL SPECIFICATION				
Antenna Diameter	1.8 m			
Antenna Type	offset			
Weight	125KG			
Satellite Acquisition Time	≤3 Minutes			
Antenna Pointing Range Azimuth Elevation Polarization	 ±180 °(Continuous) 0° ~ 90° ±90°			
Tracking precision	0.08 °			
Display resolution	0.01 °			
Motor Drive System Azimuth Travel Rate Elevation Travel Rate Polarization	 0.11°/S (0.06°/S) 0.17°/S (0.04°/S) 1°/S			
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/ m2			

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