



Feature

- * AST 1.8m C/Ku band flyaway antenna designed to provide high speed stow and deploy through its simple and robust structure and light weight material.
- * The reflector is composed of four or six panels use fast-lock speed connection thus avoiding the need of installation tools. Az/EI adjustment can be locked, EI adjustment is by fast-tune and fine-tuning combined in one device to facilitate the operation. The support can be deployed flexibly, the whole structure of the antenna is designed to be easy to disassemble and assemble with features including all antenna parts/components packed in 2 boxes, small size, light weight and high stability.
- * Two persons assembly in less than 15 minutes.
- * The antenna case construction is high impact-resistant high molecular polymer material united injection molding, flat flexible foaming gasket, all hinge axis is stainless steel material.
- * The antenna can be packed in one case or multi-case in according to request of the user.



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Electrical Specification						
Type	FA180-EC				FA180-KU	
	C-Band 2-Port		C-Band 2-Port		Ku-Band 2-Port	
	Line		Circular		Line	
	Rx	Tx	Rx	Tx	Rx	Tx
Operating Frequency(GHz)	3.4-4.2	5.85-6.725	3.4-4.2	5.85-6.725	10.95-12.75	13.75-14.5
Gain, Mid-band (dBi)	35.3	39.1	35.2	39	45.5	46.3
Antenna Noise Temperature						
10°Elevation	38K		38K		57K	
30°Elevation	26K		26K		47K	
50°Elevation	21K		21K		42K	
XPD (on Axis), dB	30	30	15.3	18.3	35	35
VSWR	≤1.25: 1					
-3Db Beam Width, Mid-band	2.83°	1.71°	2.85°	1.72°	0.87°	0.76°
Feed Interface	CPR-229G	CPR-137G	CPR229G	CPR-137G	WR75	
Feed Insertion Loss, dB	≤0.2				≤0.2	
Isolation, Tx to Rx, dB	≥85				≥85	
Side lobe Character, dB	-14 (1st sidelobe) 32 - 25 log θ				-14 (1st sidelobe) 29 - 25 log θ	
Mechanical Specification						
Antenna Panel	4panels, Carbon fiber					
Surface Accuracy(RMS)	≤0.5mm					
Antenna Feed	F/D =0.75					
Antenna Weight	70kg					
Drive Mode	Manual					
Elevation Pointing Range	5°~90°(Continuous)					
Azimuth Pointing Range	360°(Continuous)					
Environmental Specification						
Operational Wind	20 mph (32 km/h), no ballasts/anchors, 34 mph (55 km/h), with ballasts					
Survival Wind	60 mph (97 km/h)with ballasts/anchors					
Temperature	-40°C~+60°C					
Rain Loading	1/2 in/h (12 mm/h)					
Ice Loading	1/2 in(12 mm)					
Relative Humidity	0% to 100%					
Solar Radiation	1000 Kcal/h/m ²					