

Earth Station Antenna

ASI 1.2-Mtr Dual Offset Gregorian Fly Away Antenna

Description:

The 1.2-Meter FAW is a high performance, high environment antenna dedicated to emergency wideband communications. The antenna is a modular design, with reliable structural strength, ease of operation, quick installation without professional tools. This antenna addresses all domestic and international communication satellites.



Product Features:

- High strength, lightweight, carbon fiber reflector with a surface accuracy of <math><0.3\text{mm}</math> RMS.
- Easy assembly and operation.
- Azimuth and elevation angle adjustments providing fast and fine tuning functions, rapidly decreasing the satellite acquisition period.
- C, X, Ku and Ka-Band operation.
- Supports various requirements such as Broadcast & Media, Emergency & Public Safety, Oil and Gas, etc.

Applications:

Emergency communication of counter-terrorism, natural disasters, TV live broadcasting, measurement & monitoring, government emergency communications, civil defense, news media, mobile communication operator, public security, fire control, border defense, military, enterprises and institutions, etc.



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RF Feature		
Reflector Aperature	1.2m	
Reflector Material	Carbon Fiber	
Reflector Type	Gregorian	
Frequency	Rx(GHz)	10.95 ~ 12.75
	Tx(GHz)	13.75 ~ 14.5
Gain	Rx(dBi)	41.8
	Rx(dBi)	42.7
VSWR	Rx	1.3
	Tx	1.3
Rx/Tx Isolation	Rx	> 40 dB
	Tx	> 85 dB
Sidelobe	First sidelobe < -14 dBi	
	29-25log θ ($1^\circ \leq \theta < 20^\circ$)	
	32-25log θ ($20^\circ \leq \theta < 48^\circ$) -	
	10 dBi ($\theta \geq 48^\circ$)	
Power Capacity (W)	200	
Polarization Feature	Linear	
Cross Polarization	≥ 35 dB (Axis);	
	≥ 30 dB (-1 dB beamwidth)	
Feed Interface	WR-75	
Mechanical Feature		
Packing Case Size	Rotary Table: 946mm x 690mm x 494mm	
	Reflector and Feed Arm : 750mm x 510mm x 245mm	
Weight	Rotary Table < 45Kg (including packing case)	
	Reflector < 15Kg (including packing case, exlude BUC)	
Azimuth	$\pm 100^\circ$	
Elevation	$10^\circ \sim 90^\circ$	
Polarization	$\pm 95^\circ$	
Work Windload	10 m/s (Random)	
	20m/s (with anchored unit)	
Temperature	- 40°C ~ + 60°C	
Humidity	100%	