



PFA-200

The PFA-200 is a compact, high-performance fly-away satellite antenna system engineered for rapid deployment and reliable connectivity in mission-critical scenarios. Featuring a 2.10-meter segmented carbon fiber reflector, it achieves an optimal balance of exceptional durability and lightweight portability.

Designed for versatility, the system is available in X, Ku, and Ka band configurations with quick-change feed assemblies, ensuring seamless adaptation for broadcast, tactical communications, emergency response, and mobile network operations.

Built for speed and simplicity, the PFA-210 can be fully assembled and on-air by two operators in under 12 minutes without tools. Its rugged, IATA-compliant transit cases allow for swift worldwide transport via commercial airlines. With integrated rapid satellite acquisition technology, the system guarantees swift setup and superior signal clarity, making it the definitive solution for establishing secure satellite communications anywhere, at any time.

Key Features

- C, X, Ku, Ka Band options are available
- Dual offset Carbon-Fiber 9 pieces segmented reflector
- Interchangeable Feeds
- Manual & Auto Versions Available
- Easy acquisition without any training and tools
- Fast and high-quality transmission at anytime and anywhere.
- Optional 4G / SG / LTE supported modem for load balancing and bonding solutions
- Less than 12 minutes ready to operation with two person
- High resistance for toughest weather conditions (wind, rain, sun...)
- Aluminium alloy tripod support legs
- Optional De-Ice
- DVB / Beacon Tracking Option



GENERAL SPECIFICATIONS

Reflector Diameter	2.1m
Reflector Material	Carbon-Fiber
Feed Type	Prime Focus

RF CHARACTERISTIC

		X-BAND	KU-BAND	KA-BAND
Frequency (GHz)	Rx	7.25~7.75 GHz	10.7~12.75 GHz	17.7~21.2 GHz
	Tx	7.9~8.4 GHz	13.75~14.50 GHz	27.5~31.0 GHz
Antenna Gain (±0.2 dBi) Mid Band	Rx	42.1+20(f/7.5) dBi	46.5+20(f/12.5) dBi	50.3+20(f/19.45) dBi
	Tx	42.7+20(f/8.15) dBi	47.7+20(f/14.25) dBi	53.8+20(f/29.25) dBi
Polarization		Circular	Linear	Circular
Axis Ratio		≤0.75dB		≤1.5dB
CPI (On Axis, linear)			≥35 dB	
Tx/Rx Isolation		85dB		
RF Power Capacity		Up to 100W		
First Side Lobe		-14dB		
VSWR	Rx	≤1.3	≤1.35	≤1.4
	Tx	≤1.3	≤1.3	≤1.4

MECHANICAL SPECIFICATIONS

		X-BAND	KU-BAND	KA-BAND
Range of Motion	AZ	±200°	±200°	±200°
	EL	0~90°	0~90°	0~90°
	POL	TX/LHCP, RX/RHCP	± 90°	TX/LHCP, RX/RHCP

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40°C~+60°C	Storage temperature	-55°C~+70°C
Operating wind speed	72 km/h (balance weight&anchors)	Survival wind speed	97 km/h (balance weight&anchors)
Relative Humidity	0-100%		
Rainproof	Operational:5cm/h Survival:10cm/h		
Solar Radiation	1000 Kcal/h/m2		
Radial Ice (survival)	12.7 mm		

Compliances / Certificates



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