



Size:

1.80m

## PFA-180

### Global Mobility & Airlinex-Friendly Transport

The PFA-180 is a compact, lightweight motorized Fly-Away Antenna designed to meet worldwide satellite market demands. Its modular components pack securely into two rugged, IATA-compliant flight cases, allowing easy transport via commercial airlines to any destination for broadcasting or critical communications.

### Rapid Assembly by Two Persons, No Tools

Engineered for efficiency, the PFA-180 requires no tools for installation. Its intuitive, modular design enables two people to assemble the complete system and be ready for transmission within just 10 minutes, with no special operator training required.

### Precision Reflector & Multi-Band Versatility

The system features a precision six-segment 1.8m parabolic offset reflector, quick-install feed-arm, and three-axes pedestal. The accurate reflector surface delivers remarkably low sidelobes and excellent cross-polar performance. Interchangeable feed-horn systems are available for C, X, Ku, and Ka bands.

### Key Features

- C, X, Ku, Ka Bands available
- Ready for transmission within ~10 minutes
- Prime Focus Antenna with 6 Segmented 1.8m Reflector
- Aluminium alloy tripod support legs
- High resistance for toughest weather conditions (wind, rain, sun...)
- User friendly - no training is needed
- Supports OpenAmip
- Optional De-ice System
- Optional 4G/ 5G /LTE supported modem for load balancing and bonding





GENERAL SPECIFICATIONS

Reflector Diameter	1.8m
Reflector Type	Offset
Antenna Concept	Prime focus antenna with 6 segmented 1.8m reflector
Setup Time	~10 Minutes

RF CHARACTERISTIC

	C-Band	X-Band	Ku-Band	Ka-Band
Frequency (GHz) Tx	5.850 - 6.725	7.9 - 8.4	13.75 - 14.50	17.7 - 21.2
Frequency (GHz) Rx	3.40 - 4.20	7.25 - 7.75	10.70 - 12.75	27.5 - 31
Antenna Gain (±0.2 dBi) Tx	39.50 (Midband)	41.4+20log(f/8.25)	46.5 (Midband)	51.9+20log(f/29.25)
Antenna Gain (±0.2 dBi) Rx	35.40 (Midband)	40.5+20log(f/7.5)	44.8 (Midband)	48.3+20log(f/19.45)
Polarization	Linear / Circular	Circular	Linear	Circular
TX/RX Isolation	85 dB			
VSWR	1.3			
Cross-Polar Rejection	>35 dB within 1 dB beamwidth			
Antenna Pattern Compliancy	ITU-R S.580-6 and ITU-R S.465-6			

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Antenna Travels Range	360°	0° to 85°	-90° to 90°
Number of Cases	3 Cases		

ENVIRONMENTAL SPECIFICATIONS

	PFA-180
Temperature Range Operational	-30°C to 55°C
Temperature Range Survival	-40°C to 70°C
Wind Speed Operational	45 km/h
Wind Speed Survival	65 km/h
Wind Speed Operational (with ballast)	80 km/h
Wind Speed Survival (with ballast)	100 km/h
Rain	Survival in heavy rainstorm
Humidity	Up to 100% with condensation

Specifications are subject to change.

